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 Thursday, 1st December, 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 ...	29.86	24	NE	4	0	29.26	-.49	26	26	+6	NE	5	0	#	0	#	26	16	0.12
	Hernösand ...	29.56	19	N	0	0	29.33	-.39	25	24	+11	N	0	0	#	0	#	?	1	0.08
	Stockholm ...	29.56	33	S	2	0	29.41	-.25	37	37	-2	S	4	r	#	0	#	43	32	-
	Wisby	29.62	39	S	6	0	29.60	-.11	42	39	0	WSW	8	0	#	0	#	43	36	0.12
	Karlstad ...	29.62	23	N	0	b	29.15	-.41	40	39	+8	WSW	6	0	#	b,r	#	#	#	0.12
	Bodö	29.40	26	NE	6	b	29.14	-.46	28	26	+5	E	6	0	2	b	#	28	19	-
	Christiansund ...	29.18	32	ESE	3	c	28.82	-.72	38	34	+8	SW	2	c	4	c	#	38	28	-
	Skudesnaes ...	29.35	38	S	9	r	29.16	-.42	42	40	+6	W	8	c	5	ors,r	#	43	36	#
	Færder (Christiania Fjord)	29.55	50	NNW	1	0	29.10	-.50	42	40	+14	SW	6	0	4	0	#	?	27	0.08
	Skagen (The Scaw)	29.59	36	SW	3	0	29.28	-.36	44	43	+10	W	4	r	1	0	#	46	34	0.24
	Fanö	29.66	43	WSW	4	bc	29.56	-.11	47	47	+13	SW	6	c	#	bc	#	47	34	0.20
	Sumburgh Head	28.96	43	W	4	0	28.89	-.43	43	39	+5	W	7	c	7	r,0	#	45	38	0.22
	Stornoway ...	29.22	42	NW	5	p	29.31	.00	39	38	-3	NW	4	0	4	r.op	0.0	48	36	0.35
	Wick	29.18	38	NW	7	c	29.22	-.16	38	37	0	NW	8	bcu	4	c	#	44	33	0.20
	Nairn	29.22	46	W	3	r	29.31	-.14	43	41	+5	W	3	0	2	r	#	49	35	0.03
	Aberdeen ...	29.28	39	SSW	3	og	29.34	-.16	41	39	+7	SW	2	bc	2	og	0.0	45	33	-
	Leith	29.37	47	W	3	0	29.39	-.17	52	49	+12	W	6	0	#	0	#	52	33	-
	Shields	29.50	50	SW	3	0	29.54	-.10	51	49	+17	WSW	5	0	2	0,r.0	#	51	33	0.02
	Spurn Head 9 A.M.	29.63	44	SSW	4	r	29.73	+.03	50	49	+12	WSW	4	0	3	c,r	#	50	38	0.03
	York	29.61	44	SSW	2	0	29.72	+.01	50	47	+16	WSW	4	0	#	0,r.0	0.0	52	34	0.09
	Loughborough ...	29.73	44	SSW	4	0	29.84	+.07	50	47	+18	WSW	3	cu	#	c.op.og	#	51	37	0.02
	Ardrossan ...	29.46	51	WSW	7	c	29.52	-.05	51	51	+5	WSW	6	rm	4	r.c	#	52	45	0.06
	Malin Head ...	29.53	50	WSW	7	gmqr	29.52	+.02	50	50	+3	W	8	qr	6	qmr	#	50	46	0.22
	Belmullet ...	29.80	52	W	6	bc	29.79	+.05	52	51	+1	W	6	0	*	0	#	52	49	0.03
	Donaghadee ...	29.61	60	WNW	5	c	29.67	.00	50	50	+11	W	5	c	3	c	#	51	38	0.08
British Islands	Liverpool (Bidston)	29.69	44	WSW	6	r	29.80	+.05	50	46	+8	WSW	6	c	5	omp	#	51	40	0.06
	Holyhead ...	29.74	51	WSW	5	ogp	29.84	+.09	51	49	+6	W	6	cu	4	2mgp	#	52	43	0.16
	Parsonstown ...	29.82	50	W	1	0	29.86	+.11	50	48	+7	W	3	ou	#	or.p	0.0	51	42	0.06
	Valencia ...	29.98	52	W	4	op	30.02	+.12	53	50	+1	WSW	5	om	5	og.op	0.0	53	49	0.06
	Roche's Point ..	29.92	51	NW	5	c	29.99	+.11	50	48	+5	W	3	bc	3	c	#	53	44	0.02
	Pembroke (St. Ann's Hd.)	29.83	52	NW	5	c	29.97	+.11	53	49	+6	WNW	5	og	4	o.c	0.0	53	41	0.12
	Scilly	29.95	52	WNW	7	c	30.09	+.16	53	49	+4	WNW	6	c	5	f.c	0.0	53	38	0.17
	Prawle Point ...	29.91	50	WSW	4	o	30.05	+.15	50	49	+10	W	4	c	6	rm.p	#	50	?40	0.16
	Jersey (St. Aubin's)																#			
	Hurst Castle ...	29.89	48	WSW	4	r	30.01	+.16	51	49	+13	WSW	3	o	2	cm.r	#	51	37	0.02
	Dungeness ...	29.87	44	W	4	b	29.96	+.12	49	49	+16	W	3	o	2	b,r	#	50	32	0.08
	North Foreland	29.89	41	S	2	bc	29.97	+.14	41	40	+6	SW	2	o	2	b.bc.r	#	44	34	0.07
	London (Brixton) ...	29.85	44	SW	3	oaf	29.96	+.12	48	47	+12	WSW	2	c	*	bm.r	1.2	49	35	0.05
	Oxford	29.83	45	SW	2	o	29.93	+.10	49	47	+14	SW	3	o	*	bc.a	#	49	34	-
	Cambridge ...	29.80	42	SW	4	r	29.90	+.11	48	47	+12	SSW	1	o	*	bc.r	4.8	50	30	0.05
	Yarmouth ...	29.77	40	SSW	3	b	29.83	+.09	47	46	+12	WSW	3	bcm	4	b	#	47	34	0.02
Germany & Holland	Cuxhaven ...	29.77	39	SE	3	b	29.73	+.06	41	40	+2	SW	5	oa	#	b	#	41	36	-
	Berlin	29.93	38	N	2	b	30.01	+.30	32	31	-10	SSW	2	b	#	b	#	43	32	-
	Wiesbaden ...	#	#	#	#	#									#	#	#			
	Munich	30.04	33	W	3	o	30.20	+.45	35	34	+2	W	3	c	#	o	#	35	32	0.35
	The Helder ...	29.79	45	SW	3	bc	29.80	+.07	51	49	+8	WSW	4	c	2	bc	#	51	43	0.04
France & Belgium	Brussels ...	#	#	#	#	#	30.03	+.17	40	39	+7	SW	4	r	#	o	#	44	32	0.04
	Cape Gris Nez ...	?	48	W	4	c	?	?	51	49	+8	WNW	8	o	4	c	#	51	43	0.24
	Paris	30.06	36	SSW	2	bc	30.11	+.24	36	36	-3	S	3	r	#	bc	#	45	35	-
	Brest	30.04	50	W	3	f	30.10	+.16	52	48	+5	NW	4	o	3	f	#	52	46	0.04
	Lorient	30.08	50	NW	4	o	30.17	+.19	51	50	+10	NW	4	c	3	o	#	52	41	0.08
	Rochefort ...	30.02	37	E	2	b	?	?	45	44	+8	SSE	4	o	#	m.b	#	46	32	0.12
	Belfort	30.06	34	E	0	f	30.22	+.39	32	30	-2	W	2	m	#	f	#	42	30	0.12
	Lyons	30.12	35	N	1	f	30.27	+.36	36	35	+1	N	1	c	#	r	-	41	35	0.08
	Nice	29.82	44	NE	5	b	30.11	+.46	36	33	-7	ENE	2	b	2	b	#	50	?	-
	Perpignan ...	30.07	46	NE	1	b	30.25	+.33	43	39	+8	NW	3	b	#	b	#	53	35	-
	Biarritz ...	30.06	48	N	4	bc	30.17	+.35	47	45	-2	S	3	r	2	bc	#	54	41	0.08
Peninsula	Corunna ...																#			
	Lisbon	30.28	51	N	4	b	30.38	+.18	50	45	-2	N	4	b	#	b	#	57	48	-
	Azores (P. Delgada)	30.44	57	ENE	2	0	30.41	+.01	56	52	+2	NE	1	c	3	0	#	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 0.1 hrs;

WEATHER CHARTS

FOR Thursday, 1st December, 1898

BAROMETER, WIND AND SEA.

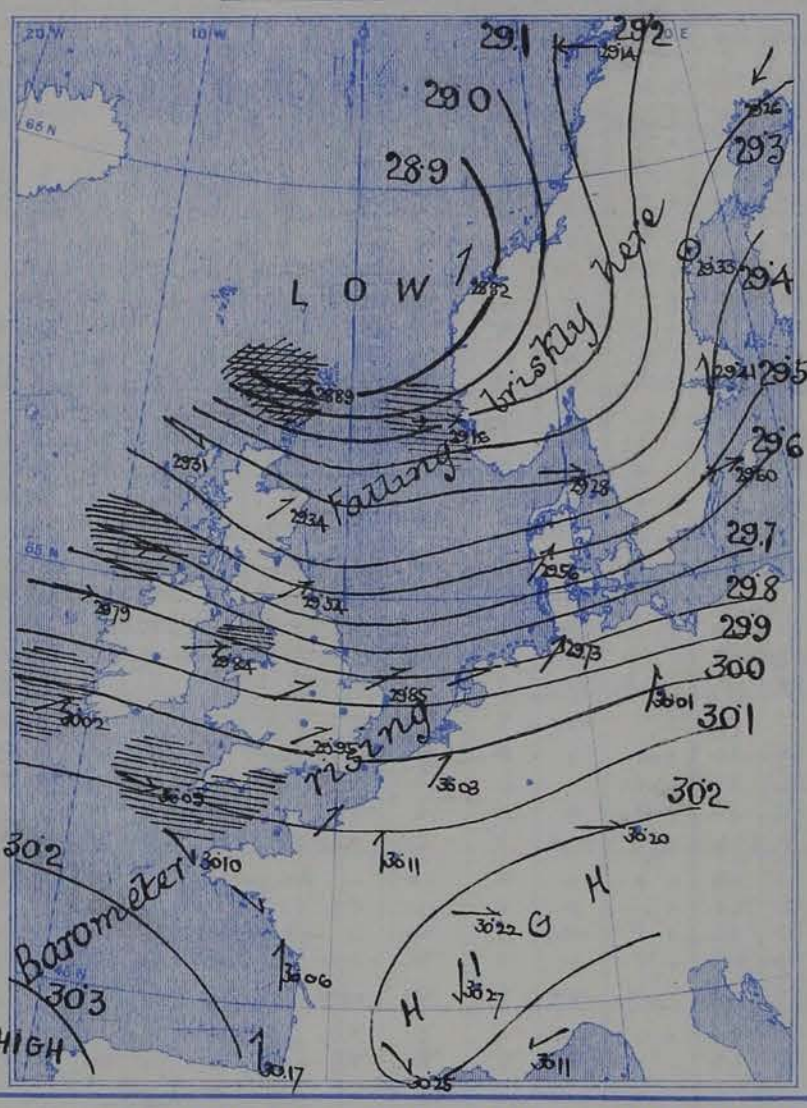
BAROMETER—Isobars are drawn for each tenth of an inch.

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* ▦

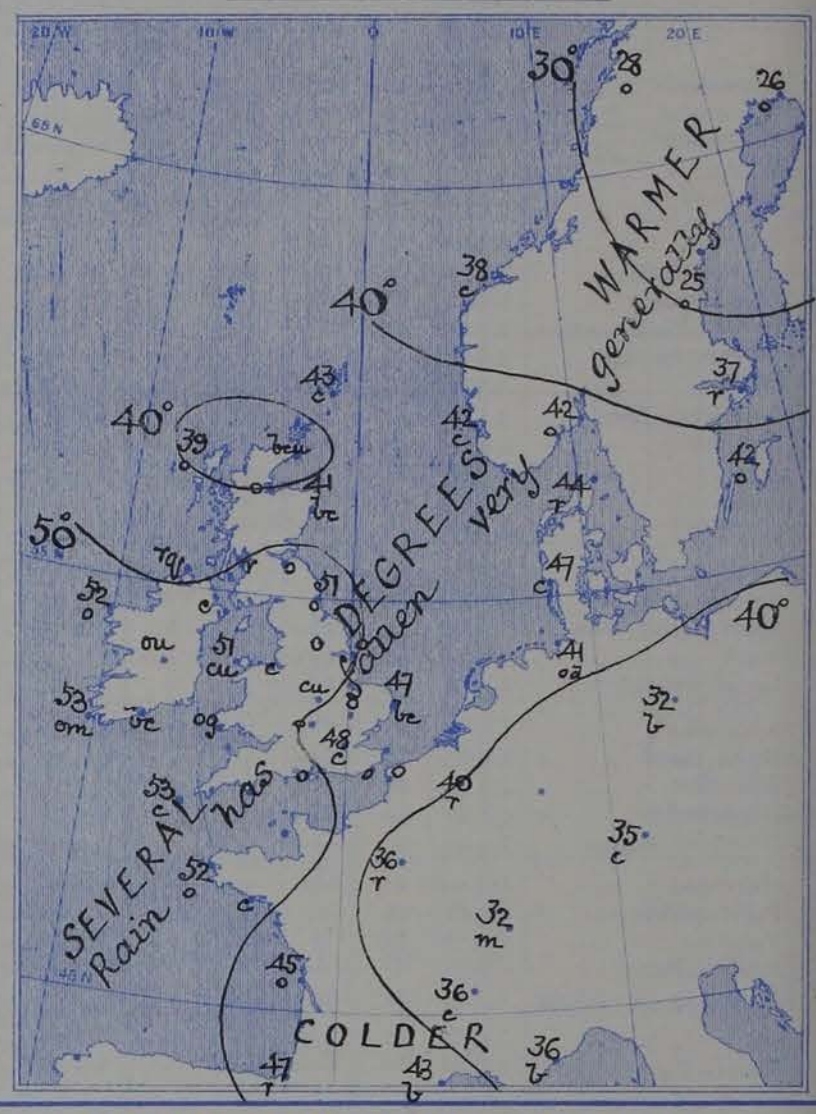


TEMPERATURE & WEATHER.

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 DECEMBER.

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 · 656	39 · 8	38 · 3	42 · 8	35 · 5	53	1890	19	1877	4 · 27	—	—
Stornoway	29 · 688	39 · 6	38 · 7	43 · 3	34 · 4	54	1880	15	1880	5 · 64	25 · 4	13
Wick	29 · 699	38 · 3	37 · 1	42 · 4	33 · 0	55	1889, 94	10	1882	3 · 17	—	—
Nairn	29 727	37 · 2	35 · 7	42 · 2	32 · 4	57	1888, 90, 91, 92, 94	10	1882	1 . 94	—	—
Aberdeen	29 · 758	37 · 0	35 · 3	42 · 0	32 · 8	58	1873	6	1882	3 · 11	39 · 9	20
Leith	29 · 797	38 · 7	37 · 2	44 · 1	33 · 7	58	1873, 88	6	1882	1 · 89	—	—
Shields	29 · 836	38 · 4	37 · 0	43 · 1	33 · 9	59	1873	10	1878, 79	2 · 32	—	—
Spurn Head	29 · 870	38 · 9	37 · 8	42 · 6	35 · 4	55*	1888	19*	1891	2 · 05	—	—
York	29 · 886	36 · 6	35 · 6	42 · 5	32 · 4	59	1888, 91	0	1879	2 · 21	26 · 5	12
Loughborough	29 · 922	36 · 4	35 · 4	43 · 0	32 · 3	59*	1888	7*	1890	2 · 24	—	—
Ardrossan	29 · 809	40 · 3	39 · 1	44 · 7	36 · 2	55	1880	15	1879	3 · 66	—	—
Malin Head	29 · 768	41 · 3	39 · 6	45 · 2	38 · 1	—	—	—	—	—	—	—
Belmullet	29 · 822	42 8	40 · 9	46 · 9	39 · 0	—	—	—	—	5 · 36	—	—
Donaghadee	29 · 840	40 · 4	39 · 5	45 · 8	36 · 3	56	1885, 88, 94	20	1879	2 · 85	—	—
Holyhead	29 · 876	42 · 8	41 · 2	46 · 5	39 · 2	56	1872, 88	25	1874	3 · 83	—	—
Liverpool	29 · 891	39 · 0	37 · 3	43 · 8	35 · 7	59	1891	13	1878	2 · 62	—	—
Parsonstown	29 · 891	38 · 3	37 · 0	45 · 1	33 · 5	58	1877	8	1878	3 · 09	45 · 0	20
Valencia	29 · 900	45 · 0	42 · 9	49 · 9	40 · 4	57	1884, 88	24	1886	5 · 93	43 · 9	19
Roche's Point	29 · 908	43 · 5	42 · 1	48 · 2	39 · 4	58	1873	25	1882	5 · 16	—	—
Pembroke	29 · 914	43 · 9	42 · 6	47 · 0	40 · 5	55	1876	19	1890	3 · 96	46 · 0	20
Scilly	29 · 950	47 · 4	45 · 5	49 · 8	43 · 6	57	1876	30	1890	4 · 00	—	—
Prawle Point	29 · 976	42 · 8	41 · 4	47 · 3	38 · 5	55*	1881, 88	25*	1885, 87, 90	3 · 77	—	—
Jersey	29 · 993	43 · 5	41 · 7	47 · 7	39 · 7	61	1876	19	1871	3 · 76	62 · 6	25
Hurst Castle	29 · 962	40 · 9	40 · 1	45 · 9	36 · 7	58	1876	19	1890	2 · 77	—	—
Dover	29 · 954	40 · 0	38 · 9	44 · 7	35 · 9	56	1880	12	1890	2 · 79	—	—
LONDON	29 · 956	38 · 0	36 · 8	44 · 3	34 · 0	58	1873, 88, 91	11	1878	2 · 11	11 · 8†	5†
Oxford	29 · 956	37 · 1	36 · 0	43 · 2	33 · 6	58	1888	6	1878	2 · 10	41 · 8	18
Cambridge	29 · 941	36 · 4	35 · 6	43 · 2	31 · 6	59	1878, 88	0	1879	1 · 82	41 · 2	18
Yarmouth	29 · 915	38 · 1	37 · 1	42 · 2	33 · 8	56	1873	15	1879	2 · 53	—	—

* 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, 30·38 in. at Lisbon; 30·2 in. and upwards in an anticyclone extending from the Spanish Peninsula over the southern part of France and Germany.
Lowest, 28·9 in. and less, in a large depression lying to the westward of the Norwegian coast.
Gradients steep or rather so over the northern part of our area, but slight in the south.
Barometer falling decidedly in Scandinavia and Denmark, rising in most other parts of our area, but inclined to fall in the extreme northwest of our Islands.

TEMPERATURE

Highest, 53° at Valencia (Ireland), Pembroke and Scilly, 52° at Leith and Belmullet, and 51° at Ardrossan, Holyhead, Hunt Cartle and the Helder.
Lowest (1) 25° at Haparanda, 26° at Haparanda, and 28° at Bodö; (2) 32° at Berlin and Belfast; lowest in our Islands 38° at Wick.
A further decided rise has taken place over the United Kingdom, the change since yesterday amounting to between 12° and 17° over the eastern central and northern parts of England.

WIND

Strong from the W.N.W. on our western coasts, and from the N.W. in the north of Scotland, with a gale at Wick and Malin Head.
Light to moderate from the S.W. over the eastern and central parts of England and the Netherlands, and strong to a gale from the same quarter in Denmark and the south of Scandinavia; E. in the north of Scandinavia.
Rather variable in France, but chiefly S.

WEATHER

Cloudy or dull over Western Europe as a whole, with rain in the extreme northwest of our Islands, as well as at several of the Continental stations.
Fine and bright in the extreme south of France.
Since yesterday morning rain has fallen in nearly all parts of our area, the quantity being, however, mostly slight. A lunar rainbow was seen at Naun yesterday.

SEA

High at Cumbrae Head and rough or rather so on many parts of our western and northern coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The large depression in the extreme north is moving eastwards, while small secondary disturbances are passing in a similar direction across the northern parts of our Islands and the North Sea. Squally showery weather is likely to prevail over the United Kingdom generally.

FORECASTS

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

DISTRICTS.		FORECASTS.
↓ 0	SCOTLAND NORTH	W.N.W. and N.W.N. winds, strong to a gale at first, moderating and backing later; changeable, some cold rain or sleet.
↓ 1	SCOTLAND EAST	
↓ 2	ENGLAND N.E.	W.N.W. winds, strong in places; squally, showery.
3	ENGLAND EAST	W.N.W. and S.W.N.W. winds, freshening; changeable, some showers.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	
↓ 6	SCOTLAND WEST	W.N.W. strong winds and gales; squally, some rain.
↓ 7	ENGLAND N.W.	
8	ENGLAND S.W.	W.N.W. and S.W.N.W. winds, fresh or strong; cloudy, some rain.
↓ 9	IRELAND NORTH	Same as Nos 6 and 7.
10	IRELAND SOUTH	Same as No 8.
	WARNINGS	At 3·20 pm yesterday to districts 2 and 7 "Hoist North Cone". The signals are now flying in districts 0 to 2, 6, 7 and 9.

Note.—The **South Cone**, *point downwards* (↓), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to S.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 ...	29.53	36	35	SSE	6	ors	4
Sumburgh Head	29.03	41	41	SSW	5	r	5
Stornoway	29.19	48	46	WNW	5	0	5
Aberdeen	29.31	38	37	SSW	3	og	2
Shields	29.56	40	38	SSW	2	o	3
Ardrossan	29.46	51	51	WSW	4	r	3
Malin Head ...	29.50	50	50	WSW	6	r	5
Belmullet	29.75	51	50	W	5	o	*
Holyhead	29.71	48	48	WSW	5	dgm	3

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29.96	52	49	W	6	og	6
Scilly	29.94	51	51	WSW	3	f	3
Jersey							
Hurst Castle ...	29.89	47	44	W	3	cm	2
Dungeness ...	29.85	47	46	W	3	b	2
North Foreland	29.87	44	41	SW	2	b	2
London (Westminster)	29.86	47	43	SSW	1	c	#
Yarmouth ...	29.77	42	40	WSW	3	b	3
Rochefort ...	29.94	39	39	E	2	m	#

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

Weather in morning fine over England, the Netherlands, and the greater part of France, as well as in the west of Norway. Cloudy or dull elsewhere, with rain in Ireland, as well as at Copenhagen and Biarritz; snow falling at Belfort and Munich as well as at some stations in Sweden and Northern Russia. Fog very prevalent over the central and southern parts of Russia. Rain falling later over nearly the whole of Western Europe, but amounts mostly slight.

Temperature risen in our Islands,—rapidly in Scotland—and also in Scandinavia; but fallen elsewhere. Morning readings highest 68° at Malta, 63° at Athens and 57° at Perao; above 50° at most of the Mediterranean stations, and also on the west coast of Ireland. Lowest (1) 14° at Haparanda, 20° at Haparanda; (2) 30° at Le Mans, and 33° at Brussels and Munich; lowest in our Islands 33° at Dungeness. Further rise taking place over our Islands later, and thermometer reaching 50° or more in several places in evening or night.

Wind light to moderate from the W.ward or SW.ward in our Islands, and from the E.ward or SE.ward on the eastern shores of the North Sea. Variable in France and Germany, SW' or W' over Italy and the Spanish Peninsula. S' or SE' over the northern and central parts of Russia, variable in Sweden. Subsequently increasing in force on all our northern coasts, and blowing a gale from the W.ward or NW.ward in Scotland

Barometer highest 30·3 in: and upwards in an anticyclone over the southern parts of Russia; 30·2 in: and upwards in another system lying to the southward and southwestward of Spain. Lowest 29·3 in: and less, in a depression lying off the north of Scotland; 29·7 in: and less, in another disturbance over northern Italy and the extreme southeast of France. Scotch depression subsequently moving eastwards and also spreading out a little to the southward; barometer falling briskly on our northern 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.

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DAILY WEATHER REPORT

for 8 a.m. on Friday, 2nd December, 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 ...	28·99	28	NNE	2	0	28·87	- ·39	19	18	- 7	N	2	C	5	0	#	28	16	0·32
	Hernösand ...	28·96	23	2	0	b	29·15	- ·18	10	9	- 15	2	0	b	#	b	#	32	10	0·51
	Stockholm ...	29·21	30	SSW	6	b	29·27	- ·14	38	37	+ 1	SW	4	0	#	b	#	43	28	0·04
	Wisby	29·39	45	SW	9	r	29·41	- ·19	43	42	+ 1	W	4	r	#	r	#	45	34	0·39
	Karlstad ...														#		#	#	#	
	Bodö	29·01	25	E	5	b	29·01	- ·13	24	22	- 4	E	4	b	1	b	#	28	23	-
	Christiansund ...	28·78	39	WSW	2	r	29·05	+ ·23	38	36	0	WSW	2	bc	4	r	#	39	36	-
	Skudesnaes ...	29·22	45	SW	8	0	28·89	- ·27	41	41	- 1	NE	4	r	4	c.0	#	45	36	#
	Færder (Christiania Fjord)	29·13	41	W	7	b	29·17	+ ·07	40	38	- 2	S	2	r	4	b	#	43	39	0·12
	Skagen (The Scaw)	29·33	44	W	6	c	29·20	- ·08	48	47	+ 4	WSW	6	r	2	c	#	48	41	0·20
	Fanö	29·52	48	WSW	5	0	29·41	- ·15	49	47	+ 2	SW	6	c	#	0	#	50	46	-
	Sumburgh Head	29·14	42	NNW	4	c	28·92	+ ·03	38	37	- 5	N	1	c	4	c	#	45	38	0·23
	Stornoway ...	29·25	39	NNW	2	r	29·05	- ·26	39	38	0	WSW	3	0	3	0.r	0·0	43	37	1·40
	Wick	29·30	41	SE	6	0	29·04	- ·18	38	36	0	W	4	0	5	0	#	46	35	0·40
	Nairn	29·32	42	2	0	r	29·07	- ·24	41	40	- 2	W	1	c	1	r	#	50	40	0·35
	Aberdeen ...	29·36	41	W	1	0	29·07	- ·27	41	39	0	NW	1	c	2	bc.0	0·8	53	41	0·04
	Leith	29·39	50	W	4	r	29·13	- ·26	48	47	- 4	W	4	r	#	r	#	54	46	0·08
	Shields	29·55	53	SW	4	0	29·23	- ·31	52	51	+ 3	SW	6	bc	2	0	#	52	50	-
	Spurn Head ...	29·69	50	SW	5	0	29·44	- ·29	51	50	+ 1	SW	5	c	4	c.0	#	51	48	-
	York	29·67	53	W	5	0	29·38	- ·34	54	51	+ 4	SW	4	0	#	0	0·0	54	49	0·01
	Loughborough ...	29·82	51	SSW	4	0	29·58	- ·26	53	50	+ 3	SW	6	0q	#	c.0q, c.q	#	54	50	-
British Islands	Ardrossan ...	29·49	52	WSW	4	0rm	29·15	- ·37	50	50	- 1	WSW	5	0 qlp	4	0rm	#	54	48	0·14
	Malin Head ...	29·40	51	WSW	7	0	29·13	- ·39	50	49	0	W	7	0qr	6	rmq	#	51	48	0·28
	Belmullet ...	29·63	53	W	9	0qrm	29·39	- ·40	53	50	+ 1	W	8	0	#	0	#	53	50	0·03
	Donaghadee ...	29·59	51	WSW	5	0	29·26	- ·41	53	53	+ 3	WSW	7	0	5	0	#	54	49	0·03
	Liverpool (Bidston)	29·54	53	WSW	4	0	29·44	- ·36	54	51	+ 4	SW	7	0	6	0m	#	55	48	-
	Holyhead ...	29·75	53	WSW	7	0lpq	29·47	- ·37	54	52	+ 3	WSW	8	0qlu	6	0.pq	#	54	49	-
	Parsonstown ...	29·77	52	W	2	0	29·49	- ·37	54	51	+ 4	W	3	0pu	#	0	0·0	54	49	0·04
	Valencia ...	29·90	52	SW	5	c	29·67	- ·35	55	53	+ 2	SW	7	0qm	6	0q.c	0·0	56	51	0·17
	Roche's Point ...	29·92	52	W	4	c	29·67	- ·32	54	53	+ 4	W	5	0qr	4	c	#	54	50	0·18
	Pembroke (St. Ann's Hd.)	29·90	53	W	5	r	29·64	- ·33	53	52	0	WSW	8	0qj	6	or	0·0	53	50	0·08
	Scilly	30·06	52	W	6	c	29·91	- ·18	53	52	0	SW	6	0	6	cp.c	0·6	54	49	0·03
	Prawle Point ...	29·91	50	WSW	5	0	29·90	- ·15	52	51	+ 2	NNW	6	0	4	c.p	#	52	49	0·01
	Jersey (St. Aubin's)																#			
	Hurst Castle ...	29·99	52	W	4	c	29·86	- ·15	53	51	+ 2	SW	5	0m	3	0.c	#	53	51	-
	Dungeness ...	29·94	51	WSW	4	0	29·81	- ·15	53	52	+ 4	WSW	6	c	5	0	#	54	48	-
	North Foreland	29·94	50	SW	2	0	29·80	- ·17	51	48	+ 10	WSW	5	c	2	0	#	51	41	-
	London (Brixton) ...	29·93	51	W	2	0	29·79	- ·17	53	49	+ 5	WSW	5	0	#	0.0q	0·1	53	48	-
	Oxford	29·90	49	SW	3	0	29·74	- ·19	51	49	+ 2	SW	4	0q	#	0,0d	#	52	48	-
	Cambridge ...	29·87	49	SW	4	0	29·67	- ·23	51	49	+ 3	SW	6	bq	#	0	0·0	52	46	-
	Yarmouth ...	29·81	49	WSW	3	c	29·64	- ·19	50	49	+ 3	SW	5	c	4	c	#	51	45	-
Germany & Holland.	Cuxhaven ...	29·74	45	SW	6	r	29·63	- ·10	47	46	+ 6	SW	6	0p	#	p	#	47	41	0·12
	Berlin	29·96	39	SW	3	r	29·90	- ·11	41	39	+ 9	SW	5	0	#	r	#	41	32	0·24
	Wiesbaden ...	#	#	#	#	#	30·11		42	40		SW	1	0	#	#	#	42	39	-
	Munich	30·26	31	W	3	b	30·11	- ·09	28	28	- 7	S	2	b	#	b	#	36	25	-
	The Helder ...	29·80	50	SW	4	c	29·63	- ·17	51	49	0	SW	6	0	5	c	#	52	50	-
Belgium.	Brussels ...	#	#	#	#	#	29·95	- ·08	47	46	+ 7	SW	6	r	#	0	#	48	39	0·04
	Cape Gris Nez ...	?	53	W	6	0	?	?	54	50	+ 3	W	6	0	6	0	#	54	46	-
	Paris	30·17	42	S	2	0	30·13	+ ·02	44	44	+ 8	SSW	3	bc	#	0	#	45	36	0·04
	Brest	30·17	50	NW	3	c	30·05	- ·05	52	51	0	W	4	0	4	c	#	54	46	-
	Lorient	?	52	NW	4	c	30·13	- ·04	53	51	+ 2	W	4	r	5	c	#	57	37	0·04
France &	Rochefort ...	30·15	51	W	2	c	30·15	?	52	48	+ 7	SSW	2	0	#	bc.c	#	55	44	-
	Belfort	30·25	36	W	1	0	30·23	+ ·01	36	34	+ 4	W	3	0	#	0	#	37	32	-
	Lyons	30·31	36	ESE	1	0	30·31	+ ·04	37	37	+ 1	NW	1	0	#	0	#	40	36	-
	Nice	30·20	42	E	2	b	30·22	+ ·11	42	35	+ 6	NE	3	bc	2	b	#	52	36	-
	Perpignan ...	30·26	46	2	0	0	30·27	+ ·02	46	45	+ 3	2	0	0	#	0	#	57	43	0·16
	Biarritz ...	30·25	54	W	4	r	30·26	+ ·09	53	51	+ 6	NW	3	r	3	r	#	55	47	0·28
Peninsula.	Corunna ...																#			
	Lisbon														#		#			
	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 0·3 hrs;

WEATHER CHARTS

FOR Friday. 2nd December, 1898

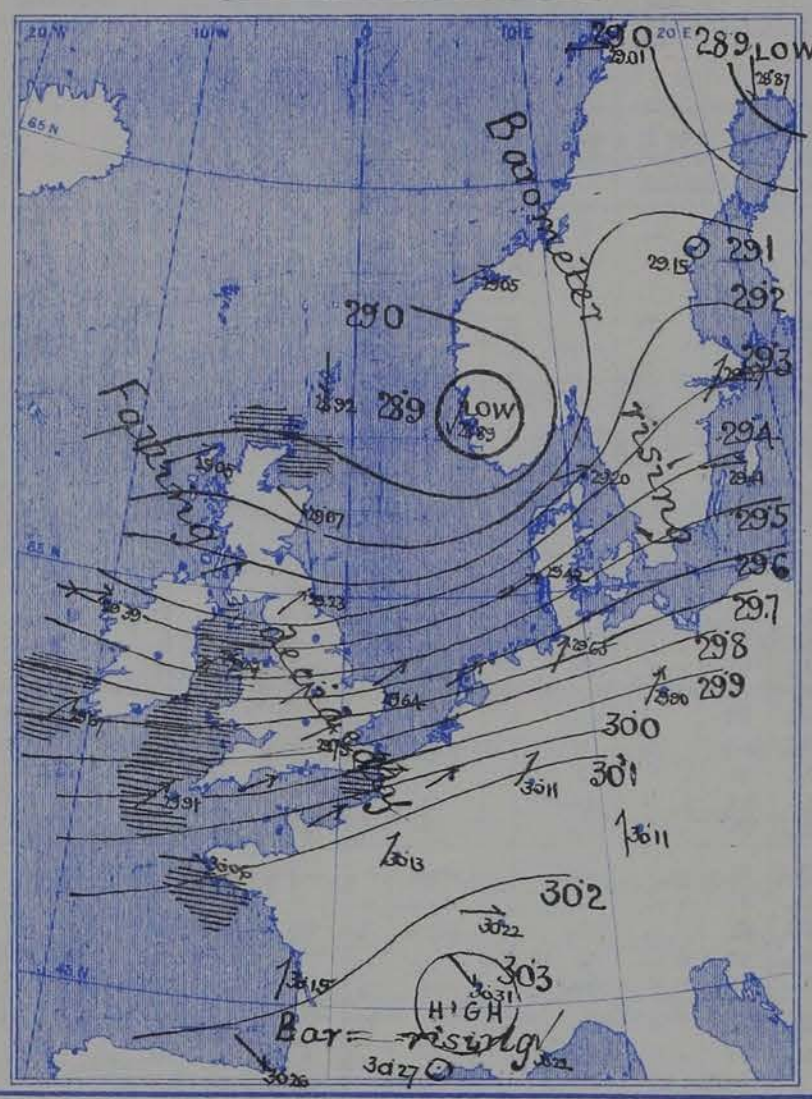
BAROMETER, WIND AND SEA.

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 ▩


20 W
10 W
0
10 E
20 E
65 N
55 N
45 N
290
289 LOW
Barometer
291
292
293
294
295
296
297
298
299
300
301
302
303
289 LOW
Fair
Fair
Fair

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·31 ins. at Lyons; 30·2 ins. and upwards over the southern parts of France generally.
Lowest, 28·9 ins. and less. in two depressions,—one lying over Lapland and the other with its centre near Rhodesaas.
Gradients steep or rather so over Ireland, England, the North Sea and the Netherlands, but moderate or slight elsewhere.
Barometer falling in our Islands and the neighbouring parts of the Continent, rising in Scandinavia and also in the south of France.

TEMPERATURE

Highest, 55° at Valencia (Ireland) and 54° at Shields, York, Liverpool, Holyhead, Parsonstown and Rochfort.
Lowest (1) 10° at Haparanda, and 19° at Haparanda, and 24° at Bodö; (2) 28° at Munich, and 36° at Belfast.
In the course of the past 24 hours the thermometer has risen to between 50° and 55° in all but the extreme northern parts of our Islands, and to 56° at Valencia (Ireland).

WIND

SW. or W. over Western Europe as a whole, and strong in force over Ireland, England, and the North Sea, with a gale on several parts of our western coasts.
Calm or variable in the north of Scandinavia and also in the extreme south of France.

WEATHER

Cloudy or dull in most places, with showers at some of our western stations, and steady rain in the south of Scandinavia and the north of Denmark as well as at Biarritz.
Fine and bright over the northern parts of Scandinavia, and also at some stations in the extreme southern parts of France and Germany.
Rain fell yesterday in the west and north of our Islands, generally, as well as at many of the Continental stations.

SEA

Rough on most parts of our western and southern coasts, and rather rough at Wick, but moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The large depression noticed yesterday off our northern coasts has travelled northeastwards, but small secondary systems are moving eastwards across the more northern parts of our Islands, and are causing an increase in the gradients over our southern districts. Gales from the SW. or W. are probable in many parts of Ireland and England.

FORECASTS

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

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	Varying W. winds; cloudy, unsettled, some rain.
◁ 1	SCOTLAND EAST	
◁ 2	ENGLAND N.E.	Same as No 5
◁ 3	ENGLAND EAST	
4	MIDLAND COUNTIES	
◁ 5	ENGLAND SOUTH	SW. and W. winds, strong, a gale in places, squally, some showers.
◁ 6	SCOTLAND WEST	SW. to W. or NW. gales and strong winds; squally, some rain.
◁ 7	ENGLAND N.W.	
◁ 8	ENGLAND S.W.	
◁ 9	IRELAND NORTH	
◁ 10	IRELAND SOUTH	

WARNINGS

At 7·30 pm yesterday to districts 8 and 10. Hoist S. Cone.
At 9·40 am today to districts 3 and 5 Hoist South Cone.
At 10·30 am today to districts 6 and 9 Rehoist North Cone.
The signals are now flying except in district 0.

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 ...	29·17	44	41	NNW	8	c	6
Sumburgh Head	29·02	43	41	WNW	7	c	7
Stornoway	29·35	43	42	NW	3	c	3
Aberdeen	29·38	46	42	W	3	bc	1
Shields	29·57	53	50	SW	3	c	2
Ardrossan	29·52	52	52	WSW	5	rm	4
Malin Head ...	29·49	51	51	W	6	r	6
Belmullet	29·73	53	52	W	6	c	*
Holyhead	29·81	52	50	WSW	6	cu	5

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29·96	54	52	SW	6	cg	6
Scilly	30·08	53	50	W	6	cg	4
Jersey							
Hurst Castle ...	30·00	52	49	WSW	3	c	3
Dungeness ...	29·96	51	50	WSW	3	c	3
North Foreland	29·96	51	49	WSW	2	c	1
London (Westminster)	29·93	54	50	W	3	c	*
Yarmouth ...	29·82	50	47	WSW	4	c	3
Rochefort ...	30·13	55	52	ENE	2	bc	*

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.
,, Weekly ,, ,, ,, £1 10 0 ,,

DAILY WEATHER REPORT

for 8 a.m. on Saturday, 3rd December, 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 ...														*		*			
	Hernosand ...	29·07	16	S	0	0	28·81	-·34	28	27	+ 18	N	6	S	*	0	*	28	7	0·08
	Stockholm ...	28·97	46	SE	6	0	28·60	-·67	42	41	+ 4	W	6	0	*	0	*	46	36	0·28
	Wisby	29·18	46	SW	10	0	28·79	-·62	42	41	- 1	WNW	10	r	*	0	*	46	39	0·20
	Karlstad ...	28·77	42	SW	2	r	28·82		33	32		SW	4	0	*	r	*	*	*	0·30
	Bodö	29·14	27	E	2	b	29·19	+·18	28	26	+ 4	E	2	c	1	b	*	28	21	-
	Christiansund ...	28·79	34	ESE	2	c	29·14	+·09	34	32	- 4	S	0	0	3	c	*	38	32	-
	Skudesnaes ...	28·82	42	NW	14	bc	29·23	+·34	41	39	0	NNW	6	c	4	0,bc	*	44	39	*
	Færder (Christiania Fjord)	28·72	44	SW	4	0	28·95	-·22	39	35	- 1	W	5	bc	4	0	*	45	36	0·47
	Skagen (The Scaw)	28·79	45	WSW	5	r	29·04	-·16	41	40	- 4	NW	9	c	4	r	*	48	39	0·39
	Fanö	29·01	46	W	9	c	29·45	+·04	44	41	- 5	W	8	c	*	c	*	50	43	0·47
	Sumburgh Head	28·93	39	NW	2	b	29·40	+·48	40	37	+ 2	NNW	1	c	3	c	*	42	36	0·09
	Stornoway ...	29·20	39	N	3	b	29·51	+·46	35	34	- 4	NW	2	c	2	r.o,b	0·0	40	33	0·25
	Wick	29·05	38	W	5	c	29·49	+·45	35	34	- 3	W	3	c	2	c	*	47	32	0·05
	Nairn	29·17	40	WNW	3	o	29·53	+·46	38	36	- 3	N	1	b	1	o	*	42	33	0·34
	Aberdeen ...	29·05	37	NW	7	bcq	29·57	+·50	38	35	- 3	SW	3	c	2	cp,bcq	0·2	44	36	0·09
BRITISH ISLANDS.	Leith	29·16	40	W	3	b	29·62	+·49	41	40	- 7	SE	0	f	*	b	*	52	38	0·14
	Shields	29·22	43	WSW	6	c	29·67	+·44	43	42	- 11	SW	2	0	2	r.c	*	56	37	0·13
	Spurn Head ...	29·34	48	W	9	b	29·77	+·33	45	42	- 6	WSW	3	oq	3	q,b	*	55	42	-
	York	29·32	48	W	5	bcp	29·77	+·39	44	42	- 10	SW	2	0	*	0,bc	0·0	51	40	0·01
	Loughborough ...	29·46	51	W	7	c	29·82	+·24	45	44	- 8	SSE	1	ogmdp	*	oq,cq,o	*	57	44	-
	Ardrossan ...	29·29	44	WSW	7	cqp	29·63	+·48	46	45	- 4	SW	3	o	3	c	*	52	42	0·07
	Malin Head ...	29·40	45	WNW	7	cqr	29·52	+·41	41	41	- 9	SSE	4	r	3	cqr	*	50	41	0·12
	Belmullet ...	29·66	46	WNW	5	c	29·57	+·18	51	50	- 2	WSW	6	o	*	cqp	*	53	43	0·03
	Donaghadee ...	29·45	43	WSW	8	b	29·67	+·41	42	42	- 11	WSW	5	c	4	b	*	53	38	0·07
	Liverpool (Bidston)	29·52	47	W	9	o	29·77	+·33	44	43	- 10	S	1	o	?	om	*	56	42	0·04
	Holyhead ...	29·63	47	W	8	cqp	29·72	+·25	51	50	- 3	SW	3	om	3	cqp	*	54	45	0·08
	Parsonstown ...	29·67	46	WNW	2	bc	29·69	+·20	50	49	- 4	S	0	o	*	o,bcp	0·1	55	44	0·06
	Valencia ...	29·77	52	WSW	4	o	29·70	+·03	52	51	- 3	S	5	oq	6	oqq,o	0·0	55	49	0·08
	Roche's Point ...	29·78	52	WNW	4	c	29·79	+·12	52	51	- 2	WSW	5	r	4	cm	*	56	50	0·01
	Pembroke (St. Ann's Hd.)	29·74	54	NW	7	o	29·84	+·20	52	51	- 1	W	5	oq	6	o	0·0	53	50	0·00
	Scilly	29·88	51	WSW	5	of	29·95	+·04	53	50	0	SW	5	o	5	o,f	0·0	54	50	0·05
	Prawle Point ...	29·84	53	WSW	6	r	29·97	+·07	52	50	0	WSW	6	cp	5	rm	*	53	49	0·13
	Jersey (St. Aubin's)																*			
	Hurst Castle ...	29·77	54	WSW	6	m	29·93	+·07	52	52	- 1	WSW	3	o	2	rm,om	*	54	52	0·02
	Dungeness ...	29·62	54	WSW	8	oq	29·89	+·08	53	53	0	WSW	4	o	4	o,oq	*	54	52	0·01
GERMANY & HOLLAND.	North Foreland	29·66	54	SSW	7	o	29·90	+·10	48	47	- 3	WSW	1	m	1	o	*	55	47	-
	London (Brixton) ...	29·63	54	WSW	5	oaq	29·90	+·11	51	50	- 2	WSW	2	o	*	oq,oc	0·0	55	48	0·06
	Oxford	29·69	52	W	4	o	29·86	+·12	50	50	- 1	SSW	2	o	*	oq	*	54	46	0·01
	Cambridge ...	29·55	55	SW	5	b	29·87	+·20	45	45	- 6	SW	1	d	*	oq,b	0·0	57	44	-
	Yarmouth ...	29·44	54	WSW	7	cq	29·83	+·19	45	43	- 5	SW	3	c	4	c	*	55	43	0·02
	Cuxhaven ...	29·38	49	SSW	8	r	29·62	-·01	44	42	- 3	W	7	o	*	r	*	50	43	0·83
	Berlin	29·69	45	SW	6	bc	29·68	-·22	44	41	+ 3	W	5	c	*	bc	*	46	41	0·16
	Wiesbaden ...	*	*	*	*	*	29·99	-·12	49	48	+ 7	SW	2	o	*	*	*	49	37	-
	Munich	30·16	33	SW	3	b	30·14	+·03	43	39	+ 15	SW	6	o	*	b	*	43	27	-
	The Helder ...	29·37	53	SW	8	o	29·78	+·15	48	44	- 3	W	5	bc	5	o	*	54	48	0·20
FRANCE & BELGIUM.	Brussels ...	*	*	*	*	*	29·95	·00	50	50	+ 3	SW	2	r	*	r	*	53	46	0·04
	Cape Gris Nez ...	?	54	W	7	r	?	?	54	53	0	W	5	o	6	r	*	55	48	0·12
	Paris	30·04	50	SSW	4	r	30·08	-·05	50	50	+ 6	SSW	3	r	*	r	*	51	44	0·12
	Brest	30·03	55	W	5	o	30·08	+·03	54	50	+ 2	SW	3	c	5	o	*	55	50	-
	Lorient	30·12	51	W	5	s	30·13	·00	54	50	+ 1	WSW	5	c	5	?	*	57	52	-
	Rochefort ...	30·10	54	NW	4	c	30·13	-·02	52	51	+ 2	NW	3	o	*	o,c	*	55	48	0·16
	Belfort	30·18	41	WSW	6	o	30·18	-·05	42	42	+ 6	W	3	r	*	o	*	43	36	0·04
	Lyons	30·29	42	SSE	1	o	30·28	-·03	41	39	+ 4	ENE	1	f	*	o	*	46	37	-
	Nice	30·20	44	E	2	b	30·11	-·11	41	33	- 1	E	2	b	2	b	*	54	41	-
	Perpignan ...	30·26	51	N	2	b	30·25	-·02	52	48	+ 6	NW	2	o	*	b	*	54	46	-
	Biarritz ...	30·27	57	WNW	5	o	30·24	-·02	54	50	+ 1	SSW	3	o	3	o	*	57	52	0·04
PENINSULA.	Corunna ...														*		*			
	Lisbon	30·41	56	NNW	3	b	30·38	-·06	48	46	- 2	Z	0	o	*	b	*	57	46	-
	Azores (P. Delgada)	30·13	64	SW	5	o	30·10	-·13	64	63	+ 1	WSW	1	o	4	o	*	66	63	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 Saturday, 3rd December, 1898

BAROMETER, WIND AND SEA.

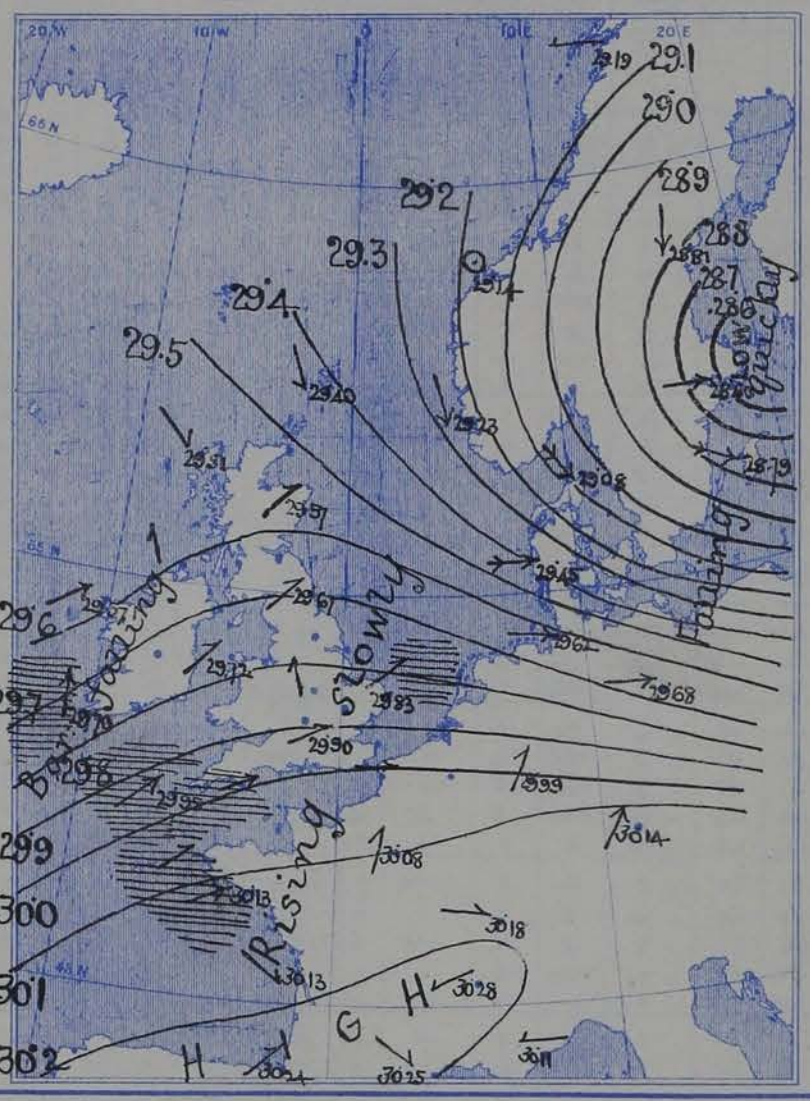
BAROMETER—Isobars are drawn for each tenth of an inch.

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 DECEMBER.*

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 · 656	39 · 8	38 · 3	42 · 8	35 · 5	53	1890	19	1877	4 · 27	—	—
Stornoway	29 · 688	39 · 6	38 · 7	43 · 3	34 · 4	54	1880	15	1880	5 · 64	25 · 4	13
Wick	29 · 699	38 · 3	37 · 1	42 · 4	33 · 0	55	1889, 94	10	1882	3 · 17	—	—
Nairn	29 · 727	37 · 2	35 · 7	42 · 2	32 · 4	57	1888, 90, 91, 92, 94	10	1882	1 . 94	—	—
Aberdeen	29 · 758	37 · 0	35 · 3	42 · 0	32 · 8	58	1873	6	1882	3 · 11	39 · 9	20
Leith	29 · 797	38 · 7	37 · 2	44 · 1	33 · 7	58	1873, 88	6	1882	1 · 89	—	—
Shields	29 · 836	38 · 4	37 · 0	43 · 1	33 · 9	59	1873	10	1878, 79	2 · 32	—	—
Spurn Head	29 · 870	38 · 9	37 · 8	42 · 6	35 · 4	55*	1888	19*	1891	2 · 05	—	—
York	29 · 886	36 · 6	35 · 6	42 · 5	32 · 4	59	1888, 91	0	1879	2 · 21	26 · 5	12
Loughborough	29 · 922	36 · 4	35 · 4	43 · 0	32 · 3	59*	1888	7*	1890	2 · 24	—	—
Ardrossan	29 · 809	40 · 3	39 · 1	44 · 7	36 · 2	55	1880	15	1879	3 · 66	—	—
Malin Head	29 · 768	41 · 3	39 · 6	45 · 2	38 · 1	—	—	—	—	—	—	—
Belmullet	29 · 822	42 · 8	40 · 9	46 · 9	39 · 0	—	—	—	—	5 · 36	—	—
Donaghadee	29 · 840	40 · 4	39 · 5	45 · 8	36 · 3	56	1885, 88, 94	20	1879	2 · 85	—	—
Holyhead	29 · 876	42 · 8	41 · 2	46 · 5	39 · 2	56	1872, 88	25	1874	3 · 83	—	—
Liverpool	29 · 891	39 · 0	37 · 3	43 · 8	35 · 7	59	1891	13	1878	2 · 62	—	—
Parsonstown	29 · 891	38 · 3	37 · 0	45 · 1	33 · 5	58	1877	8	1878	3 · 09	45 · 0	20
Valencia	29 · 900	45 · 0	42 · 9	49 · 9	40 · 4	57	1884, 88	24	1886	5 · 93	43 · 9	19
Roche's Point	29 · 908	43 · 5	42 · 1	48 · 2	39 · 4	58	1873	25	1882	5 · 16	—	—
Pembroke	29 · 914	43 · 9	42 · 6	47 · 0	40 · 5	55	1876	19	1890	3 · 96	46 · 0	20
Scilly	29 · 950	47 · 4	45 · 5	49 · 8	43 · 6	57	1876	30	1890	4 · 00	—	—
Prawle Point	29 · 970	42 · 8	41 · 4	47 · 3	38 · 5	55*	1881, 88	25*	1885, 87, 90	3 · 77	—	—
Jersey	29 · 993	43 · 5	41 · 7	47 · 7	39 · 7	61	1876	19	1871	3 · 76	62 · 6	25
Hurst Castle	29 · 962	40 · 9	40 · 1	45 · 9	36 · 7	58	1876	19	1890	2 · 77	—	—
Dover	29 · 954	40 · 0	38 · 9	44 · 7	35 · 9	56	1880	12	1890	2 · 79	—	—
LONDON	29 · 956	38 · 0	36 · 8	44 · 3	34 · 0	58	1873, 88, 91	11	1878	2 · 11	11 · 8†	5†
Oxford	29 · 956	37 · 1	36 · 0	43 · 2	33 · 6	58	1888	6	1878	2 · 10	41 · 8	18
Cambridge	29 · 941	36 · 4	35 · 6	43 · 2	31 · 6	59	1878, 88	0	1879	1 · 82	41 · 2	18
Yarmouth	29 · 915	38 · 1	37 · 1	42 · 2	33 · 8	56	1873	15	1879	2 · 53	—	—

* 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, 30·38 in: at Lisbon; 30·1 in: and upwards in an anticyclone lying over nearly the whole of the Spanish Peninsula and France.
Lowest, 28·6 in: and less, in a deep depression with its centre near Stockholm.
Gradients steep over Denmark, the Baltic, North Germany, and the south of Scandinavia, but moderate or slight elsewhere.
Barometer rising over Great Britain and the eastern shores of the North Sea, but falling elsewhere.

TEMPERATURE

Highest, 54° at Brest, Lorient, Rochefort, and Biarritz; and 50° at Scilly and Dungeness.
Lowest, 28° at Bodö and Hernösand, 33° at Karlstad, 34° at Christiansund, and 35° at Stornoway and Wick.
During yesterday the thermometer rose to between 50° and 55° in all but the extreme northern parts of our Islands, and to 57° at York, Loughborough and Cambridge.

WIND

Light to moderate from the SW. over the greater part of our Islands, but S. at Malin Hd. and Valencia (Ireland).
Strong to a gale from the W. or NW. over Denmark, North Germany, and the south of Scandinavia.
Variable over the southern parts of France.

WEATHER

Cloudy or dull over Western Europe generally with rain in isolated parts of England Ireland, and France, as well as at Wisby and snow at Hernösand.
Fair or fine in the north of Scotland and the extreme south of France.
Since yesterday morning rain has fallen in most parts of our area, the largest amounts being 0·8 in: at Cuxhaven, and 0·5 in: at Sandvig and Jersey.

SEA

Rough or rather so on our south and southwest coasts and also in the Bay of Biscay, but moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The well marked secondary depression which passed over the north of Scotland yesterday has now travelled away to the eastward. The fresh fall of the barometer in Ireland seems to indicate the approach of more disturbances from the westward, and increasing winds from the SW. and W. are probable on all our western and southern coasts.

FORECASTS

For the 24 hours ending at NOON on 4th DEC. 1898.

DISTRICTS.		FORECASTS.
↓ 0	SCOTLAND NORTH	S. winds, shifting later to the NW. or N., and increasing; squally, some rain.
↓ 1	SCOTLAND EAST	
↓ 2	ENGLAND N.E.	Same as No 5.
↓ 3	ENGLAND EAST	
4	MIDLAND COUNTIES	
↓ 5	ENGLAND SOUTH	SW. and W. winds, increasing in force; dull, squally, some rain.
↓ 6	SCOTLAND WEST	SW. to W. or NW. gales or strong winds; squally and rainy at first, some improvement later.
↓ 7	ENGLAND N.W.	
↓ 8	ENGLAND S.W.	
↓ 9	IRELAND NORTH	
↓ 10	IRELAND SOUTH	
	WARNINGS	At 3·30 pm yesterday to district 0 "Hoist N. Cone" and to districts 1, 2, 7, and 9 "Keep up Cone" 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 ...	28·80	43	42	NW	6	o	5
Sumburgh Head	28·87	40	39	N	1	c	4
Stornoway	28·93	40	39	NNW	2	r	2
Aberdeen	28·85	43	42	SW	2	cpu	2
Shields	29.08	53	50	SW	3	cp	2
Ardrossan	29.12	47	45	WSW	9	b	6
Malin Head ...	29·16	45	41	S	10	c	7
Belmullet	29·55	47	42	WNW	7	bcpq	*
Holyhead	29.46	53	50	W	8	cqp	6

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29·73	55	51	W	6	ogq	6
Scilly	29·87	54	52	SW	6	8	6
Jersey							
Hurst Castle ...	29·76	54	52	WSW	6	rm	4
Dungeness ...	29.68	54	54	WSW	8	o	7
North Foreland	29.67	53	51	SW	7	o	4
London (Westminster)	29.62	56	53	WSW	5	o	*
Yarmouth ...	29.46	54	52	WSW	5	c	4
Rochefort ...	30·12	55	52	NW	4	o	*

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

Weather in morning cloudy or dull over nearly the whole of western, northern and central Europe, with showers at some of our own western stations, and steady rain in Denmark and the south of Scandinavia, as well as at Brussels, Lorient, and Biarritz. Fine over the northern parts of Scandinavia and also over the Spanish Peninsula, northern Italy, Austria, and the extreme south of France; raining at Palermo and Malta. Rain falling later over nearly the whole of western and northern Europe, but amounts in our Islands mostly slight.

Temperature fallen in Italy and Austria and also in the north of Scandinavia, risen elsewhere. Morning readings highest 62° at Malta, 60° at Athens and Patras, and 58° at Constantinople; above 50° in nearly all parts of Ireland and England. Lowest (1) 10° at Haparanda, and 24° at Bodö; (2) 28° at Munich and 31° at Buda Kesth. Rising during day to between 50° and 55° in nearly all parts of our Islands and France, and slightly above the latter point in some few places.

Wind strong to a gale from the SW^ly over Ireland, England, the Netherlands, Denmark, North Germany and the Baltic; light to moderate from the W^ly in Scotland, variable over the northern parts of Scandinavia. Light and variable over southern and southeastern Europe generally. Subsequently increasing to a very strong gale from the W^ly over the northern parts of Ireland and England, and from the NW^ly in the east of Scotland.

Barometer highest 30·4 ins. and upwards over the central and southwestern parts of the Spanish Peninsula; 30·2 ins. and upwards in an anticyclone embracing nearly all the more southern parts of the Continent. Lowest 28·9 ins. and less, in two well-marked depressions, one lying over Lapland and the other with its centre near Skudesnaes. Rather deep secondary disturbance moving eastwards later across the northern parts of Scotland and the North Sea.

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 4th December, 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 ...	29.26	23	NNE	4	bc	29.64		10	9		N	2	c	#	bc	#	27	2	—
	Hernösand ...	29.32	28	NW	6	o	29.71	+.90	13	13	— 15	E	o	b	#	o	#	28	23	0.12
	Stockholm ...	29.41	28	NW	6	c	29.77	+1.17	28	26	— 14	W	2	c	#	c	#	46	27	—
	Wisby	29.51	35	N	9	c	29.85	+1.06	40	38	— 2	WNW	6	o	#	c	#	43	34	—
	Karlstad ...	29.58	29	W	1	b	29.71	+.89	29	29	— 4	WSW	2	r	#	b	#	#	#	—
	Bodö	29.47	29	E	2	o	29.64	+.45	24	22	— 4	E	2	b	1	o	#	29	23	—
	Christiansund ...	29.45	37	W	2	bc	29.49	+.35	36	35	+ 2	ESE	3	o	4	bc	#	37	32	0.20
	Skudesnaes ...	29.66	38	NNW	4	bc	29.35	+.12	48	47	+ 7	S	8	o	5	c,bc	#	48	36	#
	Færder (Christiania Fjord)	29.58	39	W	3	b	29.58	+.63	37	36	— 2	E	4	r	3	b	#	41	37	0.16
	Skagen (The Scaw)	29.74	41	WNW	4	b	29.60	+.56	46	46	+ 2	SW	4	r	0	b	#	48	39	0.04
	Fanö	29.87	44	W	4	c	29.74	+.29	48	47	+ 4	SW	6	c	#	c	#	48	44	—
British Islands.	Sumburgh Head	29.49	38	ESE	1	o	29.10	−.30	47	47	+ 7	W	4	r	5	bc,o	#	47	38	0.43
	Stornoway ...	29.18	41	SE	3	r	29.11	−.40	49	48	+ 14	W	5	o	5	r	0.0	49	33	1.35
	Wick	29.37	40	SE	6	r	29.21	−.28	46	45	+ 11	SW	5	c	3	r	#	46	33	0.32
	Nairn	29.35	39	W	2	r	29.24	−.29	47	46	+ 9	W	2	r	2	r	#	48	35	0.21
	Aberdeen ...	29.45	44	SSE	4	drgq	29.34	−.23	44	43	+ 6	S	2	c	2	rq,rqq	0.3	50	38	0.12
	Leith	29.43	50	W	1	o	29.49	−.13	53	48	+ 12	WSW	3	c	#	o	#	53	39	0.08
	Shields	29.59	51	SSW	3	c	29.56	−.11	53	49	+ 10	SW	4	c	2	c,r	#	53	42	0.01
	Spurn Head ...	29.76	48	SSW	3	bw	29.73	−.04	50	48	+ 5	SW	5	c	4	bw,q	#	52	45	—
	York	29.72	50	SW	3	c	29.78	−.04	54	50	+ 10	SW	3	b	#	c	0.0	54	44	0.04
	Loughborough ...	29.81	49	SW	5	b	29.81	−.01	51	49	+ 6	WSW	5	c	#	b,bc,oq	#	54	45	—
	Ardrossan ...	29.38	51	S	6	r	29.45	−.18	52	52	+ 6	S	5	ow	5	r	#	52	46	0.05
	Malin Head ...	29.28	51	S	5	oq	29.34	−.20	51	51	+ 10	SW	5	r	4	oq,rq	#	51	41	0.14
	Belmullet ...	29.37	53	SW	5	c	29.40	−.17	54	52	+ 3	SW	9	c	#	c	#	54	50	0.25
	Donaghadee ...	29.45	51	SW	6	r	29.51	−.16	52	51	+ 10	SW	6	bcq	4	r	#	52	41	0.23
	Liverpool (Bidston)	29.68	49	SW	6	b	29.74	−.03	53	51	+ 9	SW	5	o	5	b,p	#	54	44	—
	Holyhead ...	29.65	52	SW	8	rqq	29.69	−.03	54	52	+ 3	SW	7	oqw	5	r	#	54	50	0.22
	Parsonstown ...	29.53	53	NW	1	o	29.58	−.11	53	50	+ 3	W	2	ow	#	op,o	2.00	54	49	0.16
	Valencia ...	29.58	52	SSW	5	bc	29.60	−.10	54	52	+ 2	S	6	o	5	rm,bc	0.0	55	51	0.23
	Roche's Point ...	29.63	53	WSW	4	bc	29.73	−.06	53	52	+ 1	WSW	5	c	4	bc	#	54	51	0.20
	Pembroke (St. Ann's Hd.)	29.72	53	SSW	7	o	29.81	−.03	53	51	+ 1	SW	6	cq	5	o	0.3	53	51	0.15
	Scilly	29.83	55	SSW	5	o	29.91	−.04	52	51	— 1	S	4	c	5	cp,o	2.3	56	45	0.05
	Prawle Point ...	29.93	52	SW	6	r	29.98	+.01	52	51	0	SW	5	o	4	om,rm	#	53	49	0.06
	Jersey (St. Aubin's)														3		#			
	Hurst Castle ...	29.95	53	SW	5	cp	30.01	+.08	53	52	+ 1	SW	4	cw	3	cp	#	54	52	0.07
	Dungeness ...	29.97	51	WSW	4	o	29.97	+.08	55	54	+ 2	SW	5	oq	4	c,o,d	#	55	51	0.01
Germany & Holland.	North Foreland	29.98	51	SW	2	c	29.97	+.07	55	53	+ 7	SW	4	oq	2	c	#	55	47	—
	London (Brixton) ...	29.94	51	SW	3	o	29.97	+.07	54	52	+ 3	SW	3	bc	#	o	0.0	55	49	—
	Oxford	29.87	51	S	6	o	29.92	+.06	51	49	+ 1	SSW	3	b	#	oq	#	55	50	—
	Cambridge ...	29.89	50	SW	3	o	29.91	+.04	53	50	+ 8	SW	3	bc	#	o	1.4	56	44	—
	Yarmouth ...	29.85	51	SW	3	c	29.85	+.02	53	51	+ 8	SW	4	bc	4	c	#	53	43	—
	Cuxhaven ...	29.89	43	WSW	2	o	29.88	+.26	48	46	+ 4	SW	5	o	#	o	#	48	41	0.04
	Berlin	30.01	43	SW	1	b	30.09	+.41	47	44	+ 3	SW	2	o	#	b	#	48	39	—
	Wiesbaden ...	#	#	#	#	#									#		#			
	Munich	30.23	40	SE	1	o	30.29	+.15	33	33	— 10	W	2	b	#	o	#	48	38	0.04
	The Helder ...	29.90	50	SW	2	r	29.87	+.09	50	49	+ 2	SW	5	o	4	r	#	52	48	—
France & Belgium.	Brussels ...	#	#	#	#	#	30.12	+.17	48	47	— 2	SSW	5	r	#	o	#	54	46	0.04
	Cape Gris Nez ...	?	53	W	4	o	?	?	54	52	0	WSW	6	r	6	c	#	57	50	0.04
	Paris	30.15	52	SW	2	bc	30.21	+.13	48	47	— 2	SSW	3	o	#	bc	#	55	45	0.04
	Brest	30.04	54	SW	4	c	30.09	+.01	54	54	0	SW	4	o	5	c	#	54	50	0.04
	Lorient	30.11	55	SW	5	r	30.13	.00	55	55	+ 1	SW	5	r	5	r	#	57	52	0.04
	Rochefort ...	30.12	53	SW	3	c	30.16	+.03	49	48	— 5	S	3	b	#	c	#	55	46	—
	Belfort	30.21	45	W	3	f	30.25	+.07	46	44	+ 4	W	2	f	#	f	#	46	42	0.04
	Lyons	30.23	47	NNE	1	r	30.30	+.02	46	46	+ 5	NE	1	f	#	r	#	51	41	0.04
	Nice	30.39	54	E	0	b	30.41	.00	57	43	+ 16	ESE	4	b	2	b	#	61	41	—
	Perpignan ...	30.14	54	NW	3	b	30.22	−.03	51	46	— 1	NW	3	b	#	b	#	59	50	—
	Biarritz ...	30.24	52	SE	3	o	30.22	−.02	50	49	— 4	SSE	2	o	2	o	#	55	50	0.12
Peninsula.	Corunna ...																#			
	Lisbon	30.04	51	NW	3	bc	30.30	−.08	53	50	+ 5	E	0	c	#	bc	#	54	48	—
	Azores (P. Delgada)	30.03	64	SW	4	o	29.90	−.20	64	62	0	SSW	5	o	5	c	#	66	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 Sunday, 4th December, 1898

BAROMETER, WIND AND SEA.

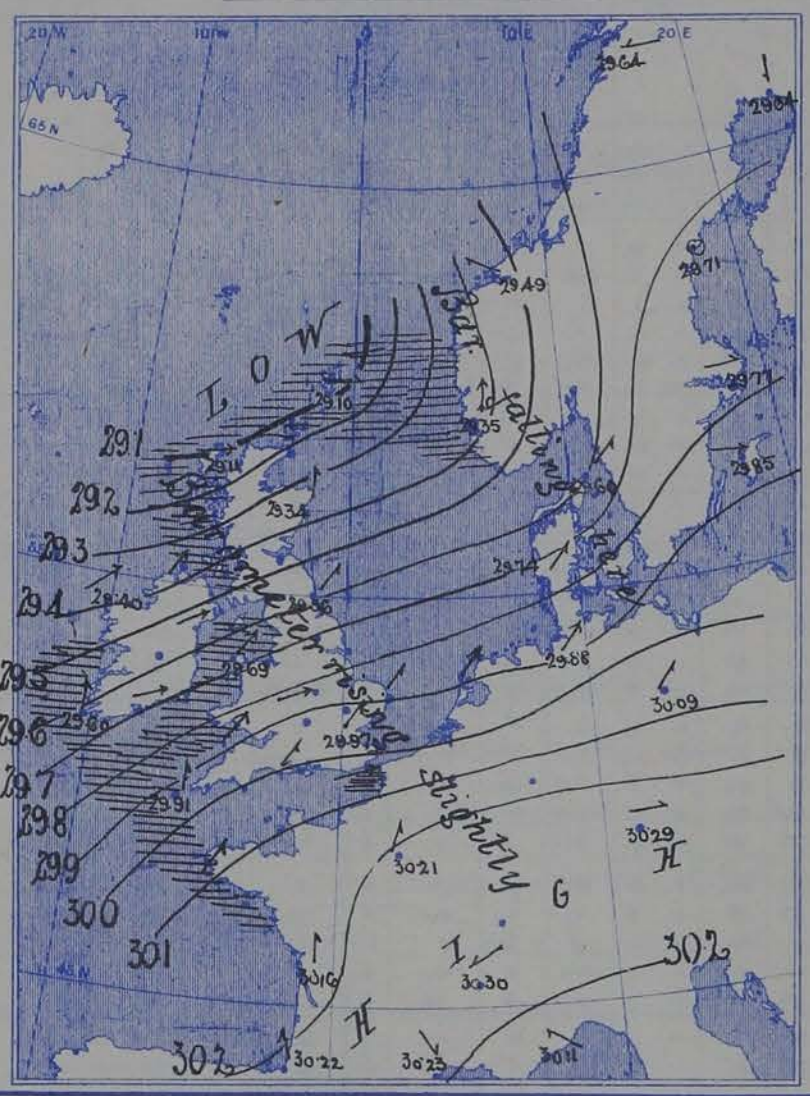
BAROMETER—Isobars are drawn for each tenth of an inch.

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


20 W
10 W
0
10 E
20 E
65 N
55 N
45 N
L O W
Squally
Squally
Squally

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·30 ins. at Lyons and Lisbon; 30·1 ins. and upwards in an anticyclone lying over nearly the whole of France, Germany, and the Spanish Peninsula.
Lowest, 29·1 ins. and less, in a depression lying off the north of Scotland.
Gradients rather steep over our Islands and the North Sea, but moderate or slight elsewhere.
Barometer rising over Western Europe as a whole, but falling in the north of Scotland and also on the eastern shores of the North Sea.

TEMPERATURE

Highest, 57° at Nice, 55° at Dungeness, the north Foreland, and Lorient, and 54° at York, Belmullet, Holyhead, Valencia, and London.
Lowest, 10° at Haparanda, 13° at Hernösand, 24° at Bodö, and 28° at Stockholm; (2) 33° at Munich.
During yesterday the thermometer rose to between 50° and 55° in nearly all parts of the United Kingdom, and to 56° at Scilly and Cambridge.

WIND

SW. over our Islands, the north of France, the Netherlands, Germany, Denmark, and the south of Sweden; strong in force on any coast with a gale at Belmullet.
Light from the S. or SE. over the central and southern parts of France, and also at most of the Norwegian stations, but blowing a gale from S. at Skudenaes.

WEATHER

Fair or fine over the eastern and central parts of England and also in the south of France.
Cloudy or dull elsewhere, with rain at several stations in the north of Scotland and the south of Scandinavia as well as at Brussels & Lorient.
Rain fell yesterday over the greater part of Western Europe, the amounts being mostly slight, but large (1·4 ins.) in the Hebrides.

SEA

Rough at Cape Gris Nez, and rather rough on many parts of our western and extreme northern coasts, as well as at Skudenaes, and off the northwest of France.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 5TH DEC., 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 3·30pm yesterday to districts 8 and 10 Keep up Cone, and at 9·30am to-day to districts 6, 7, and 9. "Hoist South Cone" The signals are also flying in dist: 0 to 2

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.51	44	41	NNW	6	c	4
Sumburgh Head	29.50	39	37	NW	1	bc	3
Stornoway	29.43	40	39	SSE	5	r	5
Aberdeen	29.59	41	37	S	1	org	2
Shields	29.66	47	44	SSW	2	c	2
Ardrossan	29.52	50	50	SSE	4	r	3
Malin Head ...	29.31	50	50	S	6	oq	3
Belmullet	29.39	52	51	SSW	6	r	*
Holyhead	29.69	53	51	SW	7	dm	5
Valencia	29.84	53	52	S	6	rm	6
Scilly	29.88	54	52	SW	6	cp	5
Jersey							
Hurst Castle ...	29.96	53	50	WSW	5	c	4
Dungeness ...	29.94	54	52	WSW	5	c	4
North Foreland	29.94	53	52	SW	2	c	1
London (Westminster)	29.92	55	50	W	2	oq	*
Yarmouth ...	29.82	58	48	SSW	3	c	4
Rochefort ...	30.12	55	53	E	2	o	*

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

Weather in morning cloudy or dull over the greater part of our Islands and the Continent, with rain at several of the English, Irish, and French stations and also over the Baltic and the Gulf of Finland; snow falling at Haparanda & Hernösand. Fair or fine in the north of Scotland as well as in Northern Italy and the extreme south of France. Rain falling later in nearly all parts of Western Europe, slightly in most places, but heavily at Stornoway; sky clearing temporarily in the south of Ireland.

Temperature fallen in our Islands and Denmark, risen in most other countries. Morning readings highest 63° at Brindisi, 60° at Patras, and 59° at Athens and Malta; above 50° in the west of France and also at several of our more western and southern stations. Lowest 23° at Haparanda and Uleaborg, 28° at Haparanda and Hernösand and 29° at Archangel. Rising during day to between 50° and 55° in all but the extreme northern parts of our Islands, and to 56° at Cambridge and Scilly; exceeding 55° also at some of the French stations

Wind light to moderate from the SW^{ly} over the greater part of our Islands, but S^{ly} at Malin Head and Valencia (Ireland) Strong to a gale from the WV^{ly} over Denmark and the south of Sweden, and from the SW^{ly} over the Baltic; S^{ly} in Russia; E^{ly} or NE^{ly} over the northern parts of Finland and Scandinavia. Variable over the Spanish Peninsula and the south of France; calm in Austria; N^{ly} over northern Italy but calm in the south of that country. Subsequently, backing to the S^{ly} or SE^{ly} in Scotland, and increasing to a gale in the north.

Barometer highest 30.43 ins: at Lisbon; 30.2 ins: and upwards in an anticyclone lying over the Spanish Peninsula and the south of France and also in another system over the Black Sea and the extreme south of Russia. Lowest 28.6 ins: and less, in a deep depression with its centre a little to the northeastward of Stockholm (gradients steep over Northern Europe generally), 29.8 ins: and less, in a shallow system off the north of Sicily. Swedish depression subsequently moving away to the eastward; new disturbance appearing in coming off the west of Scotland.

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, 5th December, 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 ...	29.86	-2	NW	0	b	29.93	+.29	-8	-9	-18	N	2	bc	5	b	*	23	-8	-
	Hernösand ...	29.76	21	NW	0	s	29.70	-.01	31	31	+18	SE	4	s	*	s	*	31	12	0.28
	Stockholm ...	29.69	36	S	2	r	29.69	-.08	40	39	+12	W	0	f	*	r	*	40	25	0.24
	Wisby	29.72	45	ESE	4	r	29.82	-.03	47	46	+7	SW	6	o	*	r	*	47	34	0.16
	Karlstad ...	29.64	35	NE	2	o	29.62	-.09	44	44	+15	SW	4	o	*	r.s	*	*	*	0.35
	Bodö	29.71	42	E	2	b	29.69	+.05	22	20	-2	E	4	b	1	b	*	25	14	-
	Christiansund ...	29.43	36	ESE	2	c	29.30	-.19	37	36	+1	SSW	2	r	4	c	*	41	32	0.20
	Skudesnaes ...	29.55	47	SSW	6	r	29.51	+.16	49	48	+1	SW	8	r.f	5	o.r	*	50	45	*
	Færder (Christiania Fjord)	29.61	38	SW	1	f	29.56	-.02	45	45	+8	SW	6	m	4	f	*	?	36	0.16
	Skagen (The Scaw)	29.71	48	W	4	m	29.74	+.14	50	49	+4	WSW	4	m	0	m	*	52	46	0.28
	Fanö	29.90	49	SW	6	o	29.94	+.20	50	50	+2	SW	6	c	*	o	*	50	48	0.04
	Sumburgh Head	29.22	47	SW	3	o	29.27	+.17	49	48	+2	SW	2	o	4	o	*	49	45	0.11
	Stornoway ...	29.20	47	WSW	2	cu	29.30	+.19	47	46	-2	W	3	c	3	r.cu	0.0	51	43	0.50
	Wick	29.26	48	SW	4	r	29.36	+.15	48	46	+2	W	5	c	3	r	*	52	44	0.05
	Nairn	29.26	54	W	3	r	29.38	+.14	50	49	+3	W	2	r	1	r	*	55	45	0.59
	Aberdeen ...	29.39	53	SSW	5	o	29.45	+.11	53	51	+9	SW	4	o.q	3	o	0.1	57	44	-
British Islands.	Leith	29.46	51	WSW	2	r	29.46	-.03	58	54	+5	SSW	4	bc	*	r.q	*	58	48	0.06
	Shields	29.64	53	SW	3	b	29.63	+.07	57	55	+4	SSW	5	o.p	2	b	*	57	50	-
	Spurn Head ...	29.79	51	SSW	5	c	29.81	+.08	54	53	+4	SSW	6	c	5	c.q	*	55	50	-
	York	29.75	51	SW	2	c	29.79	+.06	58	55	+4	S	4	bc	*	o.c	0.0	58	50	-
	Loughborough ...	29.85	54	SW	6	o	29.90	+.09	56	54	+5	SSW	6	o.q	*	c.q	o.q	*	58	61	-
	Ardrossan ...	29.48	51	S	7	o.q.p.m	29.50	+.05	53	53	+1	S	6	d.m	4	o.q.p.m	*	53	50	0.19
	Malin Head ...	29.34	52	SSW	7	o.q	29.46	+.12	49	49	-2	SSW	2	r	2	r.o.q	*	53	49	1.01
	Belmullet ...	29.43	55	SW	9	o.q	29.48	+.08	50	50	-4	SW	3	r	*	r.o.q	*	55	50	1.20
	Donaghadee ...	29.54	53	SW	7	c	29.56	+.05	53	52	+1	SW	7	c	5	c	*	55	51	0.03
	Liverpool (Bidston)	29.80	54	S	3	o	29.77	+.03	58	54	+5	S	3	o	3	c.o	*	58	52	-
	Holyhead ...	29.72	54	SW	8	o.q.q.m	29.72	+.03	54	53	0	SW	7	d.f	5	q.q.m	*	54	52	0.16
	Parsonstown ...	29.61	55	SW	2	o	29.60	+.02	55	54	+2	S	2	o.r	*	o	0.0	57	52	0.11
	Valencia ...	29.60	54	S	6	r.m	29.59	-.01	55	54	+1	S	6	o.p	6	r.m	0.0	56	53	0.21
	Roche's Point ...	29.72	53	WSW	5	r.m	29.74	+.01	54	54	+1	SW	5	r.m	4	r.m	*	54	52	0.32
	Pembroke (St. Ann's Hd.)	29.82	54	SW	7	r	29.84	+.03	55	53	+2	SW	7	r	6	c.r	+.7	55	52	0.13
	Scilly	29.89	55	S	6	o	29.89	-.02	55	55	+3	S	6	o.f	6	o	0.0	56	50	0.01
	Prawle Point ...	30.01	54	SW	6	o	30.02	+.04	54	54	0	SW	7	c.m.r	5	o.m	*	54	51	0.04
	Jersey (St. Aubin's)																*			
	Hurst Castle ...	30.05	55	SW	5	o	30.08	+.07	55	53	+2	SW	4	c.p.a.m	3	o.p	*	55	53	0.04
	Dungeness ...	30.06	55	SW	5	o	30.11	+.14	53	53	-2	SSW	5	o.a	4	o	*	55	53	-
	North Foreland	30.09	55	SSW	4	o	30.12	+.15	53	51	-2	S	4	o	3	o	*	57	51	-
	London (Brixton) ...	30.01	56	SW	4	o	30.06	+.09	53	52	-1	SSW	3	o	*	bc.o.p.a	2.6	58	53	-
	Oxford	29.98	56	SW	6	o	30.01	+.09	55	54	+4	SSW	4	o	*	bc.q.a	*	56	50	-
	Cambridge ...	29.96	55	SW	4	o.q	30.00	+.09	54	53	+1	SSW	4	o	*	bc.o.q	3.1	57	51	-
	Yarmouth ...	29.91	54	SSW	4	c	30.01	+.16	53	52	0	SSW	4	c	4	c	*	55	51	-
Germany & Holland.	Cuxhaven ...	29.97	49	SW	5	?o	?30.09	+.21	51	50	+3	SW	3	o	*	q	*	52	46	-
	Berlin	30.17	50	SW	3	o	30.26	+.17	48	46	+1	SW	2	o	*	o	*	52	46	-
	Wiesbaden ...	*	*	*	*	*	30.35		48	46		SW	1	o	*	*	*	52	48	-
	Munich	30.41	36	NW	3	f	30.39	+.10	32	32	-1	E	3	f	*	f	*	45	32	0.04
	The Helder ...	30.00	52	SW	4	o	30.06	+.15	51	50	+1	SW	5	o.f	4	o	*	54	50	-
Belgium.	Brussels ...	*	*	*	*	*	30.26	+.14	45	43	-3	S	3	b	*	o	*	52	44	-
	Cape Gris Nez ...	?	54	WSW	6	o	?	?	52	49	-2	SW	4	o	4	o	*	55	48	0.04
	Paris	30.27	52	S	2	o	30.30	+.09	36	36	-12	SSE	2	b	*	o	*	55	36	-
	Brest ...	30.08	55	S	4	f	30.08	-.01	54	53	0	SW	4	f	5	o.f	*	57	50	-
	Lorient	30.19	55	SW	4	o	30.16	+.03	55	53	0	SSW	5	o.f	5	o	*	57	54	-
France &	Rochefort ...	30.16	52	WNW	3	bc	30.14	-.02	43	36	-6	SE	3	b	*	bc	*	50	34	-
	Belfort ...	30.34	44	NW	2	s	30.36	+.11	37	37	-9	ENE	2	b.r	*	?m	*	48	36	0.08
	Lyons ...	30.36	46	N	1	f	30.38	+.08	39	39	-7	S	1	f	*	f	*	47	39	0.04
	Nice	30.17	60	E	2	c.f	30.25	+.14	55	47	-2	E	3	o.f	2	c.f	*	64	57	-
	Perpignan ...	30.24	53	W	0	o	30.30	+.08	45	44	-6	W	2	o	*	o	*	61	41	-
	Biarritz ...	30.20	53	NE	3	b	30.18	-.04	47	45	-3	SE	2	b	2	b	*	57	43	-
Peninsula.	Corunna ...																*			
	Lisbon	30.27	55	NW	4	o	30.30	.00	42	41	-11	NE	4	o	*	o	*	61	42	-
	Azores (P. Delgada)	29.83	63	WSW	4	o	29.84	-.06	62	57	-2	S	3	o	4	o	*	66	61	-

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 0.1 hrs;

WEATHER CHARTS

FOR Monday, 5th December, 1898

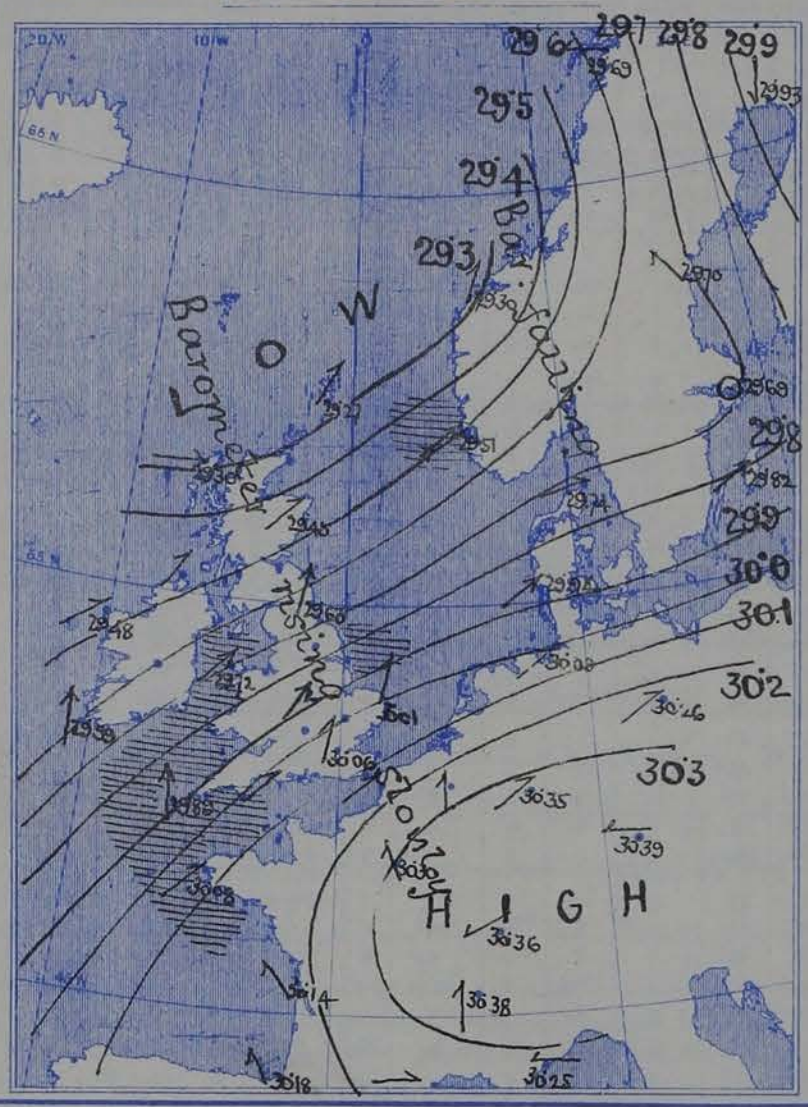
BAROMETER, WIND AND SEA.

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 ▩

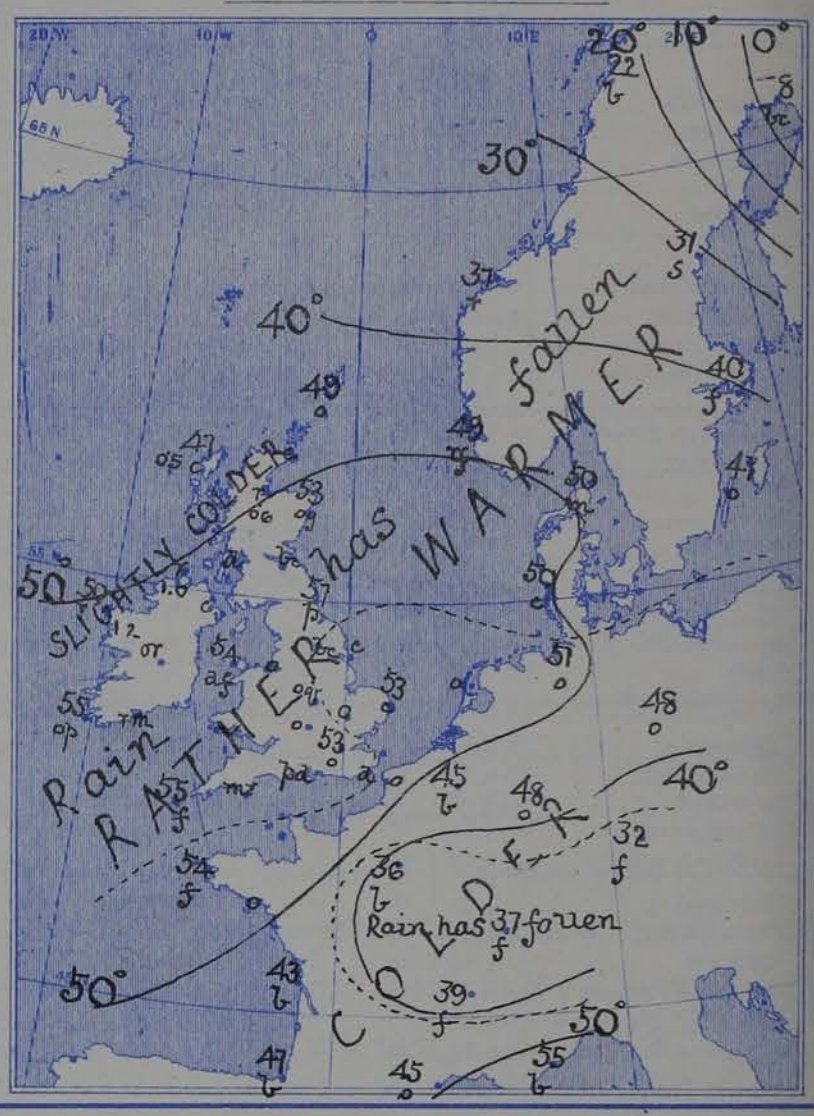


TEMPERATURE & WEATHER.

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 DECEMBER.

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 · 656	39 · 8	38 · 3	42 · 8	35 · 5	53	1890	19	1877	4 · 27	—	—
Stornoway	29 · 688	39 · 6	38 · 7	43 · 3	34 · 4	54	1880	15	1880	5 · 64	25 · 4	13
Wick	29 · 699	38 · 3	37 · 1	42 · 4	33 · 0	55	1889, 94	10	1882	3 · 17	—	—
Nairn	29 · 727	37 · 2	35 · 7	42 · 2	32 · 4	57	1888, 90, 91, 92, 94	10	1882	1 . 94	—	—
Aberdeen	29 · 758	37 · 0	35 · 3	42 · 0	32 · 8	58	1873	6	1882	3 · 11	39 · 9	20
Leith	29 · 797	38 · 7	37 · 2	44 · 1	33 · 7	58	1873, 88	6	1882	1 · 89	—	—
Shields	29 · 836	38 · 4	37 · 0	43 · 1	33 · 9	59	1873	10	1878, 79	2 · 32	—	—
Spurn Head	29 · 870	38 · 9	37 · 8	42 · 6	35 · 4	55*	1888	19*	1891	2 · 05	—	—
York	29 · 886	36 · 6	35 · 6	42 · 5	32 · 4	59	1888, 91	0	1879	2 · 21	26 · 5	12
Loughborough	29 · 922	36 · 4	35 · 4	43 · 0	32 · 3	59*	1888	7*	1890	2 · 24	—	—
Ardrossan	29 · 809	40 · 3	39 · 1	44 · 7	36 · 2	55	1880	15	1879	3 · 66	—	—
Malin Head	29 · 768	41 · 3	39 · 6	45 · 2	38 · 1	—	—	—	—	—	—	—
Belmullet	29 · 822	42 · 8	40 · 9	46 · 9	39 · 0	—	—	—	—	5 · 36	—	—
Donaghadee	29 · 840	40 · 4	39 · 5	45 · 8	36 · 3	56	1885, 88, 94	20	1879	2 · 85	—	—
Holyhead	29 · 876	42 · 8	41 · 2	46 · 5	39 · 2	56	1872, 88	25	1874	3 · 83	—	—
Liverpool	29 · 891	39 · 0	37 · 3	43 · 8	35 · 7	59	1891	13	1878	2 · 62	—	—
Parsonstown	29 · 891	38 · 3	37 · 0	45 · 1	33 · 5	58	1877	8	1878	3 · 09	45 · 0	20
Valencia	29 · 900	45 · 0	42 · 9	49 · 9	40 · 4	57	1884, 88	24	1886	5 · 93	43 · 9	19
Roche's Point	29 · 908	43 · 5	42 · 1	48 · 2	39 · 4	58	1873	25	1882	5 · 16	—	—
Pembroke	29 · 914	43 · 9	42 · 6	47 · 0	40 · 5	55	1876	19	1890	3 · 96	46 · 0	20
Scilly	29 · 950	47 · 4	45 · 5	49 · 8	43 · 6	57	1876	30	1890	4 · 00	—	—
Prawle Point	29 · 970	42 · 8	41 · 4	47 · 3	38 · 5	55*	1881, 88	25*	1885, 87, 90	3 · 77	—	—
Jersey	29 · 993	43 · 5	41 · 7	47 · 7	39 · 7	61	1876	19	1871	3 · 76	62 · 6	25
Hurst Castle	29 · 962	40 · 9	40 · 1	45 · 9	36 · 7	58	1876	19	1890	2 · 77	—	—
Dover	29 · 954	40 · 0	38 · 9	44 · 7	35 · 9	56	1880	12	1890	2 · 79	—	—
LONDON	29 · 956	38 · 0	36 · 8	44 · 3	34 · 0	58	1873, 88, 91	11	1878	2 · 11	11 · 8†	5†
Oxford	29 · 956	37 · 1	36 · 0	43 · 2	33 · 6	58	1888	6	1878	2 · 10	41 · 8	18
Cambridge	29 · 941	36 · 4	35 · 6	43 · 2	31 · 6	59	1878, 88	0	1879	1 · 82	41 · 2	18
Yarmouth	29 · 915	38 · 1	37 · 1	42 · 2	33 · 8	56	1873	15	1879	2 · 53	—	—

* 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 in an anticyclone lying over South Germany and the central parts of France.
Lowest, 29·3 ins: and less, in a large depression lying to the northward of our Islands and the westward of Norway.
Gradients rather steep over Ireland, England, and the North Sea, but moderate or slight elsewhere.
Barometer rising in most parts of our Islands, but rather unsteady in the extreme southwest, falling in the west of France and also in Norway.

TEMPERATURE

Highest, 58° at Leith, York, and Liverpool, 56° at Loughborough, and 55° at Valentia, Valencia (Ireland) Pembroke, Scilly and Hunt Castle
Lowest, (1) −8° Fahr: at Haparanda, +22° at Bodö and 31° at Hernösand; (2) 32° at Munich and 36° at Paris.
Since yesterday a further rise of temperature has taken place over our Islands generally, this morning's readings being from 15° to 20° above the average.

WIND

S^{3} or SW^{3} over the northwestern Europe generally: strong in force in many parts of our Islands, and blowing a gale at Skudesnæs; moderate from the E^{ly} or SE^{ly} in the northern parts of Scandinavia.
Light from between E. and S over the greater part of France.

WEATHER

Cloudy or dull over northwestern Europe as a whole, with rain at several of our western and northern stations, as well as in the west of Norway and snow at Hernösand.
Fair over Belgium and the greater part of France.
Rain fell yesterday in most parts of our Islands, but at our eastern and southeastern stations the amount was too slight for measurement. At Belmullet there was as much as 1·2 ins: and at Malin Head 1·0 in:

SEA

Rough or rather so on most parts of our western coasts, as well as off the northwest of France, and at Spurn Hd, moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The conditions are still favourable for the passage of depressions along our extreme western coasts, and mild S^{ly} and SW^{ly} winds with damp unsettled weather are likely to continue over our Islands generally.

FORECASTS

For the 24 hours ending at NOON on 6th Dec. 1898

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	W. to S.W. winds, moderate or fresh; cloudy, some rain.
1	SCOTLAND EAST	Same as No 5
2	ENGLAND N.E.	
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	S. and SW. winds, fresh; mild, changeable, some showers.
▼ 6	SCOTLAND WEST	S. and SW. winds, strong, a gale in places; mild, squally, some rain.
▼ 7	ENGLAND N.W.	
▼ 8	ENGLAND S.W.	
▼ 9	IRELAND NORTH	
▼ 10	IRELAND SOUTH	

WARNINGS

The South Cone is still flying in districts 6 to 10

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29·44+	48	46	WSW	6	o	+
Sumburgh Head							
Stornoway	29·18	50	48	SW	+	d	+
Aberdeen							
Shields							
Ardrossan							
Malin Head ...	29·31	53	52	SW	6	r	+
Belmullet	29·43	53	52	SSW	9	r	*
Holyhead							
Valencia							
Scilly							
Jersey							
Hurst Castle ...							
Dungeness ...	30·03	55	55	SW	5	o	4
North Foreland	30·04	55	54	SSW	4	o	3
London (Westminster)							*
Yarmouth ...							
Rochefort ...	30·16	59	55	ESE	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 27TH NOVR TO THE 3RD DECR 1898.

Over nearly the whole of Europe the weather of last week was extremely unsettled, some improvement being reported, however, over the southern countries during the latter half of the time. At the commencement of the period the conditions in the west and north were influenced partly by a secondary depression which formed off the east of England at the close of the previous week, and which afterwards moved northeastwards and increased in depth, and partly by a new disturbance which advanced southeastwards over Ireland and the southwest of England on Nov 27th and which afterwards moved eastwards along the north of France and dispersed. In the rear of the latter system the wind blew very strongly from the NWd over our Islands, with snow or sleet in some of the northern districts.

On the 29th a shallow V shaped depression spread over the United Kingdom from the Atlantic, but this soon broke up, and for the remainder of the week the weather was influenced mainly by a deep depression which travelled eastwards along our northern coasts and on to Scandinavia, and partly by some secondary systems which moved a little to the southward of the main disturbance. The passage of these disturbances was marked by gales from the Wd (SW to NW) over nearly the whole of northwestern and northern Europe, and very frequent rains, with snow in some parts of Scandinavia and Russia.

Temperature was at first low for the time of year with a severe frost over Scotland on November 29th. Later on, however, it rose considerably, and during the latter half of the week was extremely high over Ireland and England, where the thermometer on Dec 2nd and 3rd rose to 55° or a little more, the nights being also unseasonably mild.

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 Tuesday 6th December, 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 ...	29.70	13	NNE	4	bc	29.76	− ·87	6	5	+ 14	N	2	b	#	bc	#	14	−13	0·08
	Hernösand ...	29.54	30	Z	0	0	29.76	+ ·06	26	26	− 5	N	2	s	#	0	#	34	19	0·28
	Stockholm ...	29.62	52	SW	4	0	29.73	+ ·04	50	48	+ 10	NW	4	0	#	0	#	52	36	0·04
	Wisby	29.81	50	SW	8	0	29.86	+ ·04	51	49	+ 4	W	8	0	#	0	#	51	34	—
	Karlstad ...	29.62	48	SW	4	0	29.74	+ ·12	46	46	+ 2	SW	2	f	#	or	#	#	#	—
	Bodö	29.62	23	E	4	b	29.71	+ ·02	20	18	− 2	E	4	b	1	b	#	23	16	—
	Christiansund ...	29.42	45	WSW	5	r	29.54	+ ·24	43	42	+ 6	W	4	c	5	r	#	45	37	0·39
	Skudesnaes ...	29.56	49	SW	4	r	29.69	+ ·18	48	48	− 1	E	4	o	4	r	#	50	45	#
	Færder (Christiania Fjord)	29.55	47	SW	6	m	29.74	+ ·18	45	45	0	SSW	1	c	4	m	#	47	45	—
	Skagen (The Scaw)	29.77	52	W	7	m	29.86	+ ·12	51	50	+ 1	WSW	3	m	0	m	#	54	50	—
	Fanö	30.01	49	SW	6	0	30.02	+ ·08	49	48	− 1	SW	6	0	#	0	#	50	48	—
	Sumburgh Head	29.39	49	SW	3	0	29.37	+ ·10	49	48	0	W	3	0	4	0	#	50	42	0·12
	Stornoway ...	29.43	47	WSW	3	b	29.34	+ ·04	47	45	0	SW	4	c	4	c, b	1·3	50	43	0·08
	Wick	29.49	46	S	4	bc	29.44	+ ·08	48	47	0	SW	4	bc	3	bc	#	49	43	0·04
	Nairn	29.50	45	Z	0	b	29.45	+ ·07	49	45	− 1	W	2	b	1	b	#	50	43	0·03
	Aberdeen ...	29.55	49	SSW	2	og	29.54	+ ·09	49	46	− 4	SW	4	bcq	3	org, og	0·1	54	44	0·03
British Islands	Leith	29.60	53	SW	4	r	29.60	+ ·14	53	50	− 5	SW	3	c	#	r	#	59	50	0·18
	Shields	29.70	57	SSW	4	b	29.73	+ ·10	54	52	− 3	SSW	4	c	2	c, p, b	#	59	52	0·01
	Spurn Head ...	29.85	56	SSW	6	c	29.84	+ ·03	53	52	− 1	SSW	4	o	4	cq, v	#	56	52	—
	York	29.82	57	S	5	c	29.83	+ ·04	53	52	− 5	S	2	p	#	c, p	0·0	60	52	0·20
	Loughborough ...	29.93	57	SSW	2	o	29.91	+ ·01	56	53	0	SSW	6	ogw	#	cq, cqp	#	58	54	0·01
	Ardrossan ...	29.61	52	S	4	bcm	29.59	+ ·09	52	52	− 1	S	5	cm	4	rm, bcm	#	53	50	0·14
	Malin Head ...	29.53	50	SW	3	opm	29.42	− ·04	48	47	− 1	SSW	6	opg	3	c, opm	#	51	47	0·49
	Belmullet ...	29.55	52	SSW	5	r	29.50	+ ·02	51	49	+ 1	WSW	8	o	#	bc, r	#	53	49	0·98
	Donaghadee ...	29.64	52	SW	4	bc	29.63	+ ·07	50	49	− 3	SW	5	c	3	bc	#	55	48	0·03
	Liverpool (Bidston)	29.83	56	S	1	0	29.81	+ ·04	54	52	− 4	S	3	c	3	o, p	#	59	53	0·03
	Holyhead ...	29.78	54	SW	6	cm	29.76	+ ·04	53	52	− 1	SW	5	cm	4	dq, f, cm	#	55	52	0·19
	Parsonstown ...	29.67	52	S	1	c	29.66	+ ·06	51	47	− 4	S	1	o	#	or, c	0·0	56	47	0·22
	Valencia ...	29.62	54	S	5	cmq	29.67	+ ·08	52	49	− 3	SSW	5	o	6	cmq, l	0·0	56	51	0·02
	Roche's Point ..	29.74	53	WSW	5	o	29.75	+ ·01	53	52	− 1	WSW	5	c	4	o	#	54	51	0·18
	Pembroke (St. Ann's Hd.)	29.83	55	SW	7	r	29.84	·00	55	53	0	SW	6	oq	5	r	0·0	57	53	0·39
	Scilly	29.91	55	S	6	o	29.92	+ ·03	55	54	0	S	4	o	5	o	0·0	56	50	0·16
	Prawle Point ...	30.04	54	SSW	6	o	30.01	− ·01	54	54	0	SSW	7	orm	5	o, orm	#	55	53	0·18
	Jersey (St. Aubin's)																#			
	Hurst Castle ...	30.08	53	SW	4	cpd	30.06	− ·02	56	54	+ 1	SW	5	c	3	cm, pdm	#	56	55	—
	Dungeness ...	30.12	52	SSW	5	o	30.10	− ·01	52	52	− 1	SSW	5	bc	4	o	#	55	52	—
	North Foreland	30.11	53	S	4	b	30.12	·00	51	50	− 2	S	4	bc	2	r, b	#	54	51	—
	London (Brixton) ...	30.08	54	SSW	4	odp	30.05	− ·01	54	52	+ 1	SSW	3	c	#	o, odp	0·0	55	53	—
	Oxford	30.03	56	SSW	5	o	29.95	− ·03	54	53	− 1	S	3	p	#	o, dp	#	56	53	0·07
	Cambridge ...	30.03	55	SSW	4	o	30.00	·00	55	53	+ 1	SSW	4	c	#	o	0·0	57	52	—
	Yarmouth ...	30.00	54	SSW	4	c	30.01	·00	53	52	0	S	4	bc	4	c	#	55	50	—
Germany & Holland	Cuxhaven ...	30.11	50	SW	4	o	30.13	+ ·04	45	45	− 6	SW	3	orf	#	o	#	51	45	—
	Berlin	30.26	44	SSW	1	b	30.28	+ ·02	36	35	− 12	SSW	2	b	#	b	#	50	36	—
	Wiesbaden ...	#	#	#	#	#	30.36	+ ·01	42	41	− 6	SW	2	o	#	#	#	48	42	—
	Munich	30.40	32	SE	2	f	30.41	+ ·02	27	27	− 5	S	2	b	#	f	#	34	27	—
	The Helder ...	30.08	50	SW	4	o	30.08	+ ·02	48	47	− 3	SW	4	o	3	o	#	52	48	—
Belgium.	Brussels ...	#	#	#	#	#	30.24	− ·02	41	41	− 4	S	3	bc	#	bc	#	52	40	—
	Cape Gris Nez ...	?	52	SSW	4	c	?	?	49	46	− 3	SW	4	c	4	c	#	55	46	—
	Paris	30.28	43	SSE	2	b	30.29	− ·01	32	32	− 4	S	2	m	#	b	#	52	30	—
	Brest	30.10	58	S	3	o	30.08	·00	57	55	+ 3	S	4	o	5	o	#	58	50	—
	Lorient	30.18	55	SSW	4	o	30.19	+ ·03	55	54	0	SSW	4	bc	5	o	#	57	54	0·04
France &	Rochefort ...	30.23	48	E	1	b	30.24	+ ·10	44	43	+ 1	ESE	3	bc	#	b	#	55	41	—
	Belfort	30.36	38	Z	0	m	30.38	+ ·02	33	32	− 4	NE	1	b	#	m	#	48	29	—
	Lyons	30.36	42	W	1	0	30.40	+ ·02	30	30	− 9	N	1	b	#	bf	#	47	30	—
	Nice	30.24	58	E	1	b	30.24	− ·01	57	46	+ 2	E	2	b	1	b	#	68	54	—
	Perpignan ...	30.29	49	SW	1	0	30.30	·00	44	44	− 1	SW	2	b	#	o	#	60	43	—
	Biarritz ...	30.17	56	E	3	b	30.21	+ ·03	51	49	+ 4	SE	2	b	3	b	#	61	46	—
Peninsula.	Corunna ...																#			
	Lisbon	30.29	46	NNE	3	b	30.31	+ ·01	42	41	0	NNE	3	b	#	b	#	46	41	—
	Azores (P. Delgada)	29.70	61	W	3	0	29.45	− ·39	62	58	0	ESE	3	r	6	o	#	64	59	0·97

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 Tuesday, 6th December, 1898

BAROMETER, WIND AND SEA.

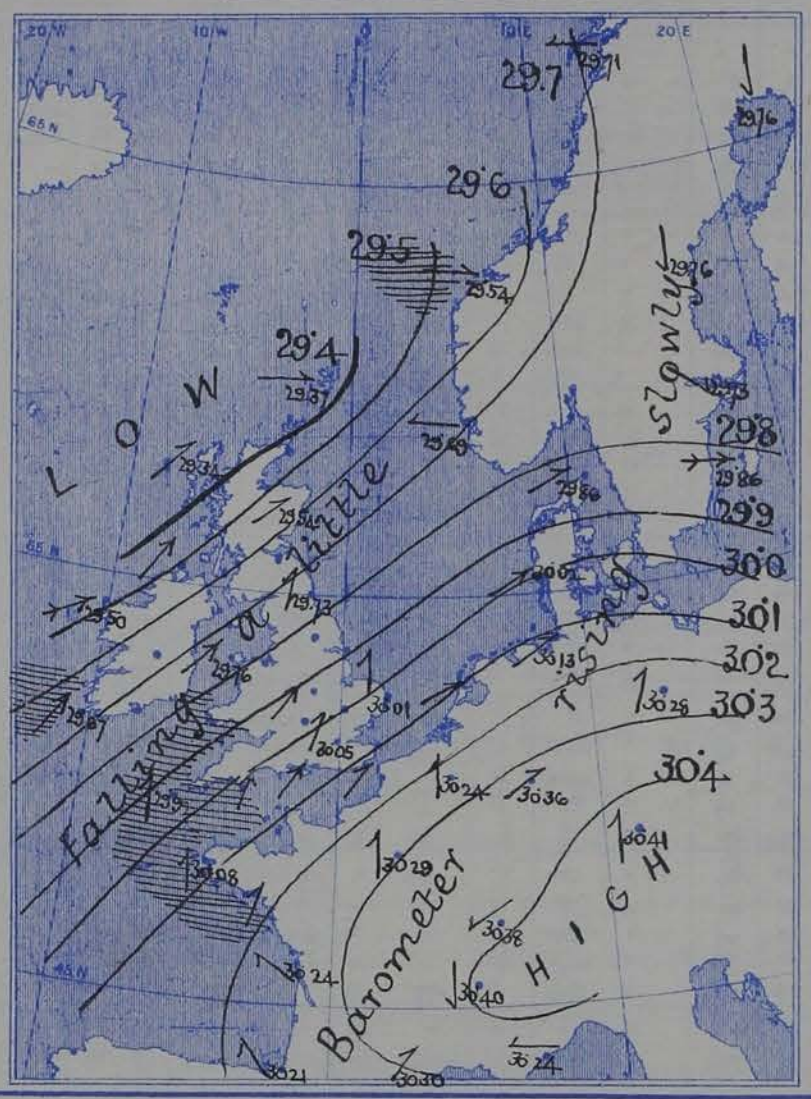
BAROMETER—Isobars are drawn for each tenth of an inch.

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 ▬

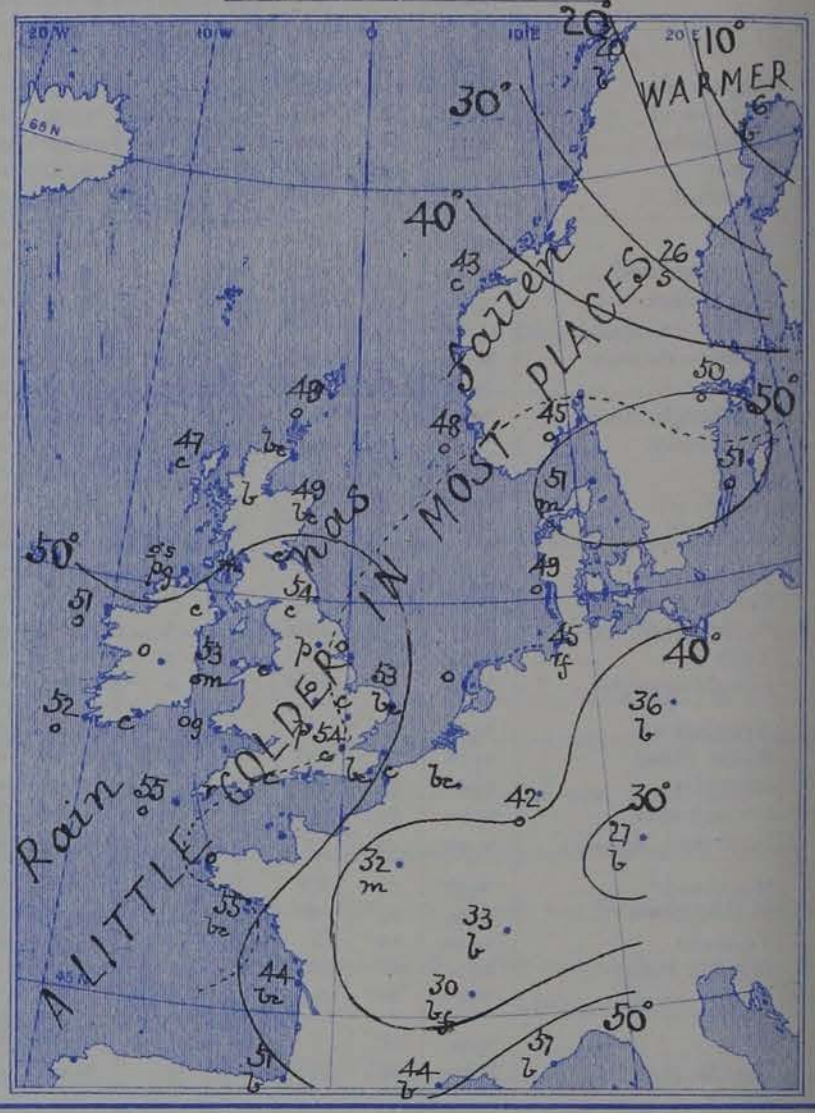


TEMPERATURE & WEATHER.

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 DECEMBER.*

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 · 656	39 · 8	38 · 3	42 · 8	35 · 5	53	1890	19	1877	4 · 27	—	—
Stornoway	29 · 688	39 · 6	38 · 7	43 · 3	34 · 4	54	1880	15	1880	5 · 64	25 · 4	13
Wick	29 · 699	38 · 3	37 · 1	42 · 4	33 · 0	55	1889, 94	10	1882	3 · 17	—	—
Nairn	29 · 727	37 · 2	35 · 7	42 · 2	32 · 4	57	1888, 90, 91, 92, 94	10	1882	1 . 94	—	—
Aberdeen	29 · 758	37 · 0	35 · 3	42 · 0	32 · 8	58	1873	6	1882	3 · 11	39 · 9	20
Leith	29 · 797	38 · 7	37 · 2	44 · 1	33 · 7	58	1873, 88	6	1882	1 · 89	—	—
Shields	29 · 836	38 · 4	37 · 0	43 · 1	33 · 9	59	1873	10	1878, 79	2 · 32	—	—
Spurn Head	29 · 870	38 · 9	37 · 8	42 · 6	35 · 4	55*	1888	19*	1891	2 · 05	—	—
York	29 · 886	36 · 6	35 · 6	42 · 5	32 · 4	59	1888, 91	0	1879	2 · 21	26 · 5	12
Loughborough	29 · 922	36 · 4	35 · 4	43 · 0	32 · 3	59*	1888	7*	1890	2 · 24	—	—
Ardrossan	29 · 809	40 · 3	39 · 1	44 · 7	36 · 2	55	1880	15	1879	3 · 66	—	—
Malin Head	29 · 768	41 · 3	39 · 6	45 · 2	38 · 1	—	—	—	—	—	—	—
Belmullet	29 · 822	42 · 8	40 · 9	46 · 9	39 · 0	—	—	—	—	5 · 36	—	—
Donaghadee	29 · 840	40 · 4	39 · 5	45 · 8	36 · 3	56	1885, 88, 94	20	1879	2 · 85	—	—
Holyhead	29 · 876	42 · 8	41 · 2	46 · 5	39 · 2	56	1872, 88	25	1874	3 · 83	—	—
Liverpool	29 · 891	39 · 0	37 · 3	43 · 8	35 · 7	59	1891	13	1878	2 · 62	—	—
Parsonstown	29 · 891	38 · 3	37 · 0	45 · 1	33 · 5	58	1877	8	1878	3 · 09	45 · 0	20
Valencia	29 · 900	45 · 0	42 · 9	49 · 9	40 · 4	57	1884, 88	24	1886	5 · 93	43 · 9	19
Roche's Point	29 · 908	43 · 5	42 · 1	48 · 2	39 · 4	58	1873	25	1882	5 · 16	—	—
Pembroke	29 · 914	43 · 9	42 · 6	47 · 0	40 · 5	55	1876	19	1890	3 · 96	46 · 0	20
Scilly	29 · 950	47 · 4	45 · 5	49 · 8	43 · 6	57	1876	30	1890	4 · 00	—	—
Prawle Point	29 · 970	42 · 8	41 · 4	47 · 3	38 · 5	55*	1881, 88	25*	1885, 87, 90	3 · 77	—	—
Jersey	29 · 993	43 · 5	41 · 7	47 · 7	39 · 7	61	1876	19	1871	3 · 76	62 · 6	25
Hurst Castle	29 · 962	40 · 9	40 · 1	45 · 9	36 · 7	58	1876	19	1890	2 · 77	—	—
Dover	29 · 954	40 · 0	38 · 9	44 · 7	35 · 9	56	1880	12	1890	2 · 79	—	—
LONDON	29 · 956	38 · 0	36 · 8	44 · 3	34 · 0	58	1873, 88, 91	11	1878	2 · 11	11 · 8†	5†
Oxford	29 · 956	37 · 1	36 · 0	43 · 2	33 · 6	58	1888	6	1878	2 · 10	41 · 8	18
Cambridge	29 · 941	36 · 4	35 · 6	43 · 2	31 · 6	59	1878, 88	0	1879	1 · 82	41 · 2	18
Yarmouth	29 · 915	38 · 1	37 · 1	42 · 2	33 · 8	56	1873	15	1879	2 · 53	—	—

* 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 30.41 ins. at Munich; 30.1 ins. and upwards in an anticyclone lying over the whole of the Spanish Peninsula, France, Germany and the Netherlands.
Lowest 29.4 ins. and less in a large depression lying to the N^nd. and NW^nd. of Scotland.
Gradients rather steep over our Islands and the North Sea, but moderate or slight elsewhere.
Barometer falling a little in our Islands, rising at most of the Continental stations.

TEMPERATURE

Highest 57° at Brest, 56° at Loughborough and Hurst Castle, and 55° at Pembroke, Scilly & Lorient
Lowest (1) 6° at Haparanda, 20° at Bodo, and 26° at Hernösand; (2) 27° at Munich, and 30° at Lyons; lowest in our Islands 47° at Stornoway.
During yesterday the thermometer rose to 55° and upwards over nearly the whole of England, Ireland and the S.E. of Scotland, to 59° at Leith, Shields and Liverpool, and to 60° at York.

WIND

Moderate to strong from the S^nd. or SW^nd. over our Islands, the north of France, the Netherlands, Germany and Denmark; moderate from the E^nd. in the west of Norway.
Light to moderate from the N^nd. or NW^nd. in Sweden, E^ly. or SE^ly. in the south of France.

WEATHER

Fine in the E. of Scotland and the E. and S.E. of England, as well as in Belgium, France & Germa
Cloudy or dull elsewhere, with showers at several of our W^rn. and central stations, and snow at Hernösand.
Rain fell yesterday in the W. and N. of our Islands generally and slight showers at so
of our E^rn. and S^rn. stations. Lightning was seen at Valencia (Ireland) at night.

SEA

Rough at Valencia (Ireland) and rather rough on our SW. coasts generally, as well as at Christiansund.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are at present no signs of the advance of any definite depression, but the tendency is for some increase in the gradients over our Islands. The SW^ly. wind is therefore likely to blow strongly on many parts of our coasts.

FORECASTS

For the 24 hours ending at NOON on 7TH DEC. **1898**

DISTRICTS.		FORECASTS.	DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	S^ly. and SW^ly. winds, freshening; fair at first, some rain later.	6	SCOTLAND WEST	S^ly. and SW^ly. winds, strong in places; mild, unsettled, some rain.
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^ly. and SW^ly. winds, fresh; mild, changeable, some showers.		WARNINGS	None issued.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.56	50	49	SW	6	r	5
Sumburgh Head	29.35	49	47	SW	3	o	4
Stornoway	29.37	50	49	W	4	c	4
Aberdeen	29.49	51	50	SW	2	org	3
Shields	29.69	58	53	SSW	4	c	2
Ardrossan	29.54	53	53	S	6	rm	5
Malin Head ...	29.47	51	51	SW	3	c	2
Belmullet	29.53	53	52	SW	4	bc	*
Holyhead	29.73	54	54	SW	7	dqf	5

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29.62	56	54	S	5	omg	6
Scilly	29.92	56	55	S	6	o	6
Jersey							
Hurst Castle ...	30.07	56	54	SW	5	cm	4
Dungeness ...	30.12	54	53	SSW	5	o	4
North Foreland	30.13	53	50	S	4	c	3
London (Westminster)	30.06	60	53	SW	3	og.	*
Yarmouth ...	29.99	55	52	SSW	4	c	4
Rochefort ...	30.16	55	52	SE	3	b	*

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

Weather in morning cloudy or dull over N^W^m.; N^rn. and central Europe generally, with rain at several of our W^rn. and N^rn. stations, as well as in the W. of Norway and at Copenhagen; snow reported at Haparanda and Archangel, but weather fine in the extreme N. of Scandinavia. Fine over the greater part of Belgium, France, Spain and Italy, but foggy in central France, as well as in S. Germany and Austria. Slight rain falling later in the E. and S. of our Islands, and larger quantities in the N. of Scandinavia. Lightning seen at Valencia (Ireland) at night.

Temperature risen over the greater part of our Islands, Denmark and Scandinavia, but fallen elsewhere. Morning readings highest (1) 63° at Brindisi, 62° at Patras, and 59° at Barcelona and Malta; (2) 58° at Leith, York and Liverpool; reaching 55° or more in several parts of the United Kingdom. Lowest −8° F. at Haparanda, 0 yers. at Uleaborg, 8° at Kuopio, and 19° at Archangel, touching the freezing point at some stations in central France and S. Germany. Rising above 55° later in many parts of our Islands, and reaching 60° at York; exceeding 60° in the S. of France, and reaching 68° at Nice.

Wind S^ly. or SW^ly. over northwestern Europe generally, strong in force in many parts of our Islands, and blowing a gale at Skudesnaes; SE^ly. or E^ly. over the northern parts of Scandinavia. Light from the E^nd. or SE^nd. over France, and from the NE^wd. or N^wd. over the Spanish Peninsula; N^ly. or NW^ly. in Italy and Greece. Calm in Austria; SW^ly. in the south of Russia. Wind tending to subside later in our Islands, but general direction remaining unchanged.

Barometer highest 30.4 ins. and upwards in Austria; 30.1 ins. and upwards in an anticyclone covering all the more central and S^rn. parts of Europe. Lowest 29.3 ins. and less in a depression lying to the N. of our Islands and the W. of Norway; 29.8 ins. and less in a shallow area over N^rn. and central Russia. No important change occurring 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.

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 Wednesday, 7th December, 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 ...	29.87	1	SW	0	0	29.42	-.34	13	13	+7	ENE	2	S	4	6	*	14	-9	0.08
	Hernösand ...	29.72	32	N	2	S	29.29	-.47	33	33	+7	N	2	S	4	E	*	33	19	0.20
	Stockholm ...	29.73	30	SW	0	0	29.51	-.22	47	45	-3	WSW	4	0	4	0	*	52	46	0.16
	Wisby	29.89	47	W	4	r	29.73	-.13	45	44	-6	WSW	4	0	4	r	*	52	45	0.04
	Karlstad ...	29.66	45	SSW	4	r	29.52	-.22	45	43	-1	SSW	4	C	4	r	*	*	*	0.08
	Bodö	29.45	26	E	6	0	29.13	-.58	25	23	+5	E	6	S	2	0	*	27	18	-
	Christiansund ...	29.30	45	W	3	r	29.19	-.35	41	39	-2	W	9	C	6	r	*	45	41	0.16
	Skudesnaes ...	29.52	48	SSW	4	C	29.47	-.22	47	43	-1	WSW	6	0	4	0,C	*	49	45	*
	Færder (Christiania Fjord)	29.62	46	SW	5	f	29.49	-.25	45	44	0	SW	6	m	4	f	*	46	45	0.12
	Skagen (The Scaw)	29.70	49	SW	5	r	29.64	-.22	47	46	-4	WSW	4	m	0	r	*	54	46	0.39
	Fanö	29.86	48	SSW	6	r	29.78	-.24	48	47	-1	SW	6	C	*	r	*	50	46	0.16
British Isles.	Sumburgh Head	29.23	48	SW	3	b	29.11	-.26	42	39	-7	SW	4	0	5	b	*	50	41	0.08
	Stornoway ...	29.23	44	WSW	5	b	29.16	-.18	40	39	-7	SW	4	0	4	r,q,c,b	0.3	50	35	0.45
	Wick	29.29	45	S	2	0	29.22	-.22	39	38	-9	W	5	bc	3	0	*	50	36	-
	Nairn	29.35	43	W	3	b	29.29	-.16	36	36	-13	W	2	r	1	b	*	50	35	0.29
	Aberdeen ...	29.43	47	SW	4	bc	29.36	-.18	40	37	-9	SW	5	bq	3	c,q,p	0.1	51	36	0.03
	Leith	29.51	43	SW	3	0	29.44	-.16	43	40	0	WSW	3	b	*	0	*	52	41	0.03
	Shields	29.63	52	SW	2	b	29.56	-.17	45	42	-9	SSW	3	0	2	p,b	*	55	43	0.03
	Spurn Head ...	29.78	51	SSW	4	r	29.63	-.21	46	45	-7	SSW	3	r	3	or	*	56	45	0.19
	York	29.74	52	SW	3	0	29.62	-.21	45	43	-8	S	1	0	*	op.o	0.0	57	43	0.13
	Loughborough ...	29.86	51	SW	5	r	29.70	-.21	45	44	-11	SW	1	r	*	c,q,r.or	*	57	45	0.33
	Ardrossan ...	29.55	49	SW	5	b	29.46	-.13	46	45	-6	SSW	6	C	5	c,p,b	*	53	44	-
	Malin Head ...	29.48	42	SW	5	bcqr	29.40	-.02	41	40	-7	SSW	6	cq	4	cqr	*	49	40	0.20
	Belmullet ...	29.63	43	W	8	bcqp	29.56	+.06	45	42	-6	W	6	b	*	c,q,p	*	51	40	0.16
	Donaghadee ...	29.61	45	SSW	5	b	29.54	-.09	40	38	-10	WSW	4	bc	2	b	*	53	38	-
	Liverpool (Bidston)	29.78	51	SW	5	b	29.65	-.16	45	42	-9	SW	2	0	3	b	*	55	45	0.04
	Holyhead ...	29.76	51	SW	6	cp	29.63	-.13	46	43	-7	W	3	C	2	cp	*	54	43	0.02
	Parsonstown ...	29.73	45	NW	1	b	29.64	-.02	40	39	-11	SW	1	C	*	c,p	2.1	42	39	0.20
	Valencia ...	29.80	47	SW	5	b	29.72	+.05	47	42	-5	WSW	5	cq	5	bc,p,b	1.8	54	43	0.18
	Roche's Point ..	29.83	48	WSW	4	b	29.73	-.02	44	42	-9	W	4	bcp	4	r,bp	*	54	42	0.40
	Pembroke (St. Ann's Hd.)	29.84	53	W	7	b	29.69	-.15	49	46	-6	WNW	7	oq	6	o,q	0.0	55	47	0.20
	Scilly	29.95	53	S	3	0	29.79	-.13	49	46	-6	WNW	4	cp	5	r.o	0.0	56	46	0.91
	Prawle Point ...	30.01	50	SW	5	r	29.80	-.21	44	43	-10	WSW	3	or	2	or	*	54	42	0.90
	Jersey (St. Aubin's)																*			
	Hurst Castle ...	30.02	52	WNW	2	0	29.77	-.29	46	45	-10	NW	1	C	2	or,r	*	56	?44	0.64
	Dungeness ...	30.00	55	SSW	5	0	29.72	-.38	55	54	+3	SSW	7	O	6	c,o	*	56	51	0.09
	North Foreland	30.04	54	S	5	0	29.76	-.36	54	52	+3	S	5	O	3	c,o	*	55	48	0.12
	London (Brixton) ...	29.97	53	SSW	5	or	29.71	-.34	46	45	-8	NW	2	r	*	o,or	0.0	56	45	0.89
	Oxford	29.95	50	SW	3	r	29.74	-.24	44	44	-10	WSW	2	r	*	or	*	55	44	0.84
	Cambridge ...	29.95	52	SW	3	r	29.72	-.28	45	45	-10	WNW	1	r	*	p,r	0.0	57	44	0.47
	Yarmouth ...	29.90	53	WSW	4	r	29.68	-.33	47	46	-6	WNW	1	q,f,r	3	c,r	*	55	45	0.41
Germany & Holland.	Cuxhaven ...	30.03	45	S	3	b	29.88	-.25	47	46	+2	SW	4	oc	*	b	*	56	43	0.04
	Berlin	30.21	39	S	2	b	30.08	-.20	36	35	0	SSW	3	b	*	b	*	43	34	-
	Wiesbaden ...	*	*	*	*	*	30.17	-.19	36	34	-7	SE	1	0	*	*	*	45	34	-
	Munich... ..	30.35	29	SE	2	f	30.25	-.16	25	25	-2	NE	2	b	*	f	*	39	25	-
	The Helder ...	29.95	50	SSW	4	o	29.78	-.30	49	48	+1	?	2	r	2	o	*	50	48	?
Belgium.	Brussels ...	*	*	*	*	*	29.96	-.28	47	46	+6	SSW	4	C	*	c	*	53	40	-
	Cape Gris Nez...	?	SW	SW	5	c	?	?	54	50	+5	SW	6	O	6	c	*	55	46	0.04
	Paris	30.23	43	S	2	bc	30.09	-.20	38	38	+6	ESE	2	O	*	bc	*	51	32	-
	Brest	30.10	53	WNW	4	f	29.88	-.20	54	54	-3	SSW	5	f	6	f	*	57	48	0.28
	Lorient... ...	30.16	56	SW	4	bc	29.93	-.26	55	53	0	SSW	6	C	6	bc	*	59	54	-
France &	Rochefort ...	30.17	50	SSW	3	bc	30.04	-.29	44	43	0	SE	3	bc	*	bc	*	54	41	-
	Belfort	30.30	40	NE	2	b	30.21	-.17	35	34	+2	W	3	b	*	b	*	52	31	-
	Lyons	30.33	42	N	1	b	30.26	-.14	30	30	0	S	1	bf	*	b	*	46	29	-
	Nice	30.21	57	E	2	b	30.19	-.05	51	44	-6	E	1	b	1	b	*	66	50	-
	Perpignan ...	30.26	50	SW	2	b	30.21	-.09	42	41	-2	SW	2	b	*	b	*	64	41	-
	Biarritz ...	30.19	58	E	3	b	30.12	-.09	57	49	+6	SSE	4	b	4	b	*	61	46	-
Peninsula.	Corunna ...																*			
	Lisbon	30.29	52	N	2	b	30.33	+.02	47	45	+5	NE	4	b	*	b	*	55	42	-
	Azores (P. Delgada)	29.76	64	E	4	0	29.91	+.46	64	62	+2	ESE	4	C	5	0	*	66	59	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 Wednesday, 7th December, 1898

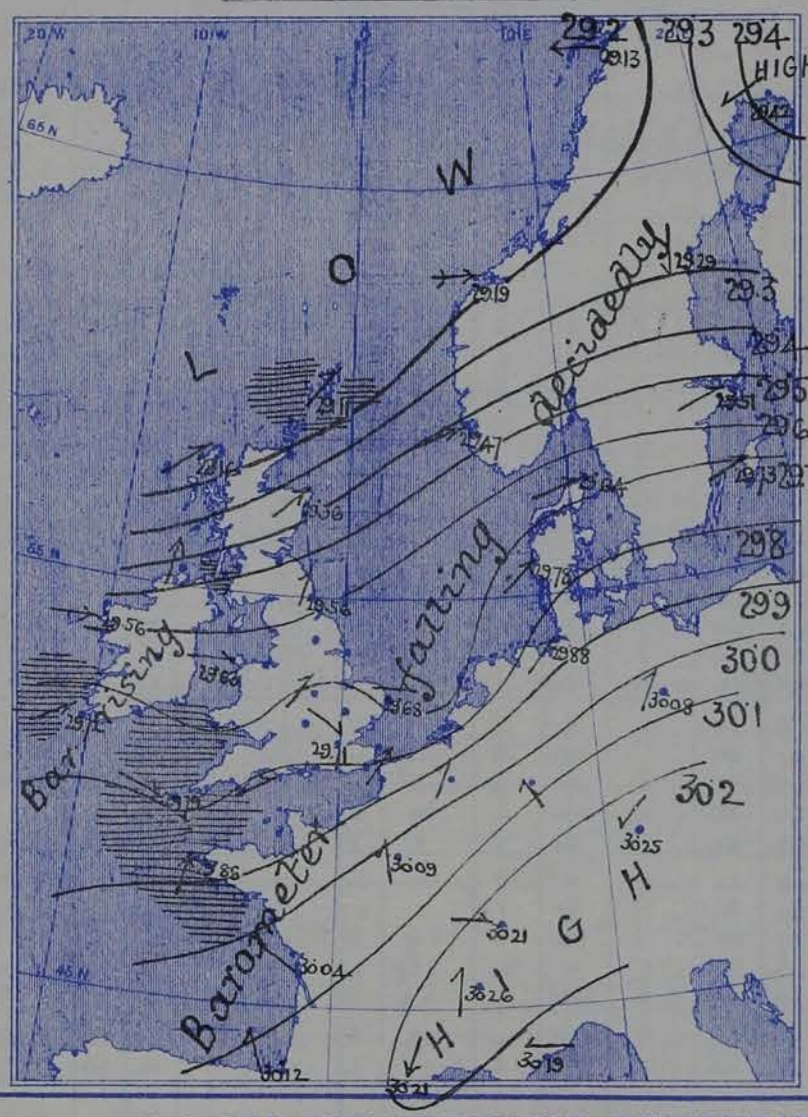
BAROMETER, WIND AND SEA.

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 ▓

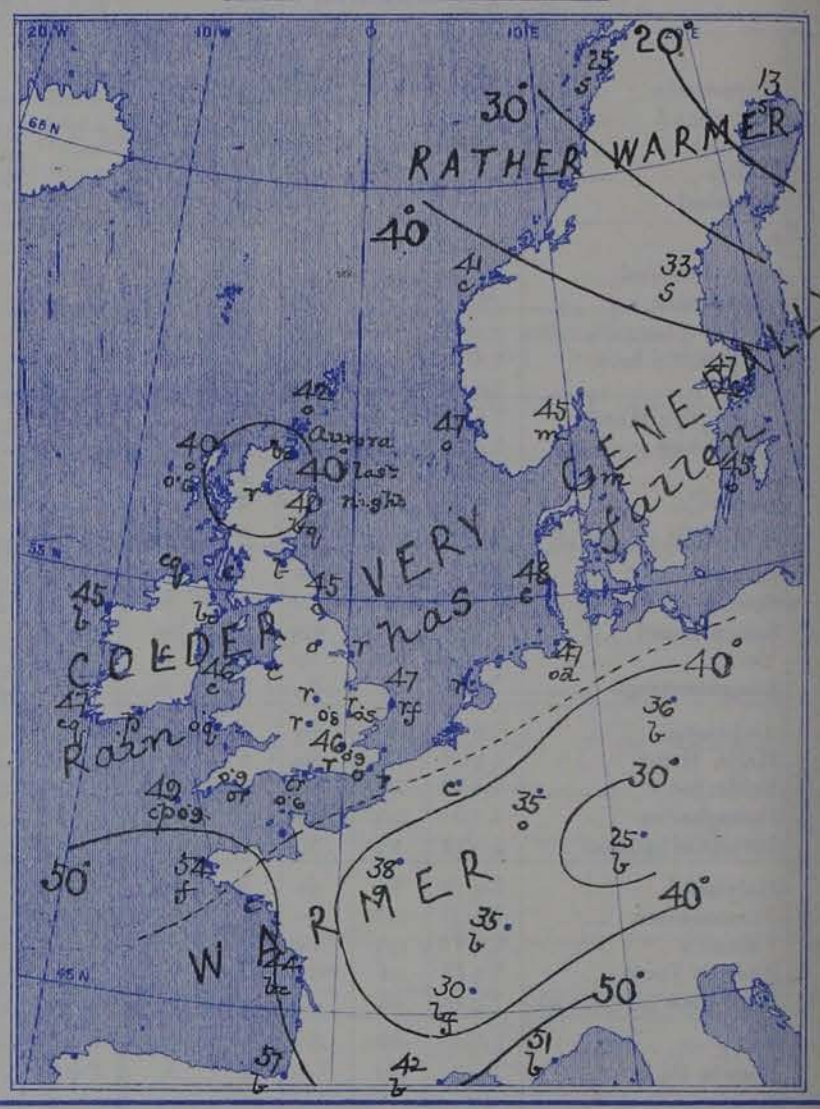


TEMPERATURE & WEATHER.

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 DECEMBER.

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 · 656	39 · 8	38 · 3	42 · 8	35 · 5	53	1890	19	1877	4 · 27	—	—
Stornoway	29 · 688	39 · 6	38 · 7	43 · 3	34 · 4	54	1880	15	1880	5 · 64	25 · 4	13
Wick	29 · 699	38 · 3	37 · 1	42 · 4	33 · 0	55	1889, 94	10	1882	3 · 17	—	—
Nairn	29 · 727	37 · 2	35 · 7	42 · 2	32 · 4	57	1888, 90, 91, 92, 94	10	1882	1 . 94	—	—
Aberdeen	29 · 758	37 · 0	35 · 3	42 · 0	32 · 8	58	1873	6	1882	3 · 11	39 · 9	20
Leith	29 · 797	38 · 7	37 · 2	44 · 1	33 · 7	58	1873, 88	6	1882	1 · 89	—	—
Shields	29 · 836	38 · 4	37 · 0	43 · 1	33 · 9	59	1873	10	1878, 79	2 · 32	—	—
Spurn Head	29 · 870	38 · 9	37 · 8	42 · 6	35 · 4	55*	1888	19*	1891	2 · 05	—	—
York	29 · 886	36 · 6	35 · 6	42 · 5	32 · 4	59	1888, 91	0	1879	2 · 21	26 · 5	12
Loughborough	29 · 922	36 · 4	35 · 4	43 · 0	32 · 3	59*	1888	7*	1890	2 · 24	—	—
Ardrossan	29 · 809	40 · 3	39 · 1	44 · 7	36 · 2	55	1880	15	1879	3 · 66	—	—
Malin Head	29 · 768	41 · 3	39 · 6	45 · 2	38 · 1	—	—	—	—	—	—	—
Belmullet	29 · 822	42 · 8	40 · 9	46 · 9	39 · 0	—	—	—	—	5 · 36	—	—
Donaghadee	29 · 840	40 · 4	39 · 5	45 · 8	36 · 3	56	1885, 88, 94	20	1879	2 · 85	—	—
Holyhead	29 · 876	42 · 8	41 · 2	46 · 5	39 · 2	56	; 1872, 88	25	1874	3 · 83	—	—
Liverpool	29 · 891	39 · 0	37 · 3	43 · 8	35 · 7	59	1891	13	1878	2 · 62	—	—
Parsonstown	29 · 891	38 · 3	37 · 0	45 · 1	33 · 5	58	1877	8	1878	3 · 09	45 · 0	20
Valencia	29 · 900	45 · 0	42 · 9	49 · 9	40 · 4	57	1884, 88	24	1886	5 · 93	43 · 9	19
Roche's Point	29 · 908	43 · 5	42 · 1	48 · 2	39 · 4	58	1873	25	1882*	5 · 16	—	—
Pembroke	29 · 914	43 · 9	42 · 6	47 · 0	40 · 5	55	1876	19	1890	3 · 96	46 · 0	20
Scilly	29 · 950	47 · 4	45 · 5	49 · 8	43 · 6	57	1876	30	1890	4 · 00	—	—
Prawle Point	29 · 970	42 · 8	41 · 4	47 · 3	38 · 5	55*	1881, 88	25*	1885, 87, 90	3 · 77	—	—
Jersey	29 · 993	43 · 5	41 · 7	47 · 7	39 · 7	61	1876	19	1871	3 · 76	62 · 6	25
Hurst Castle	29 · 962	40 · 9	40 · 1	45 · 9	36 · 7	58	1876	19	1890	2 · 77	—	—
Dover	29 · 954	40 · 0	38 · 9	44 · 7	35 · 9	56	1880	12	1890	2 · 79	—	—
LONDON	29 · 956	38 · 0	36 · 8	44 · 3	34 · 0	58	1873, 88, 91	11	1878	2 · 11	11 · 8†	5†
Oxford	29 · 956	37 · 1	36 · 0	43 · 2	33 · 6	58	1888	6	1878	2 · 10	41 · 8	18
Cambridge	29 · 941	36 · 4	35 · 6	43 · 2	31 · 6	59	1878, 88	0	1879	1 · 82	41 2	18
Yarmouth	29 · 915	38 · 1	37 · 1	42 · 2	33 · 8	56	1873	15	1879	2 · 53	—	—

* 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, 30·33 in: at Lisbon; 30·1 in: and upwards in an anticyclone lying over the whole of the Spanish Peninsula, and the southern parts of France and Germany.
Lowest, 29·2 in: and less. in a large depression lying to the northward of our Islands and the westward of Norway.
Gradient moderate over Northwestern Europe generally, but rather steep in places.
Barometer falling in most places, but inclined to rise in the west of Ireland.

TEMPERATURE

Highest, 57° at Biarritz, 55° at Dungeness and Foreland, and 54° at the North Foreland, Cape Gris Nez, and Ushant.
Lowest, (1) 13° at Haparanda and 25° at Bodo; (2) 25° at Munich and 30° at Lyons; lowest in our Islands 36° at Nairn.
During yesterday the thermometer rose to between 50° and 55° in nearly all parts of the United Kingdom, and to 57° at York Loughborough Cambridge.

WIND

Moderate to strong from the SW^{ly} or W^{ly} over northwestern Europe, as a whole, with a gale at Christiansund, but light from the NW^{ly} at some stations in the south and east of England.
Light from the S^{ly} or SE^{ly} over the greater part of France; E in the north of Scandinavia.

WEATHER

Dull over England, with rain at all the eastern, and central, and southern stations, fine in most part of Ireland and Scotland, but with showers in a few places.
Fine over the greater part of France and Germany, but cloudy in Scandinavia and Denmark, with snow at Bodo, Haparanda, and Hernösand.
Since yesterday morning heavy rain has fallen in the south of England (as much as 0·9 in: at Scilly, Prawle P^t and in London and 0·8 in: at Oxford) and smaller quantities in most other parts of Northwestern Europe. Aurora was seen last night at Wick and Aberdeen.

SEA

Rough or rather so on most parts of our south and southwest coasts, as well as at Archangel and Christiansund, but moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The large depression in the far north appears to be almost stationary, but in the course of the night small secondary systems have been developed over England, and have occasioned the heavy rains noticed above. These disturbances are likely to move away to the eastward, but at present there are no signs of any really settled weather.

FORECASTS

For the 24 hours ending at NOON on 8th DECEMBER, 1898.

DISTRICTS.	FORECASTS.
▼ 0 SCOTLAND NORTH	SW^{ly} to W^{ly} winds, strong; dull, some rain.
▼ 1 SCOTLAND EAST	SW^{ly} to W^{ly} winds, moderate or fresh; changeable, some showers.
2 ENGLAND N.E.	
3 ENGLAND EAST	SW^{ly} to NW^{ly} winds, moderate; rainy at first, some improvement later, but still showery.
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	
▼ 6 SCOTLAND WEST	SW^{ly} to W^{ly} winds, strong; squally, some showers.
▼ 7 ENGLAND N.W.	Same as Nos 1 and 2
8 ENGLAND S.W.	W^{ly} winds, fresh or strong; changeable, some showers.
▼ 9 IRELAND NORTH	Same as No 6.
10 IRELAND SOUTH	Same as No 8.
WARNINGS	At 1·40 pm yesterday to districts 0, 6, 7 and parts of 1 and 9 "Hirst 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 ...	29.66	49	48	E	4	o	4
Sumburgh Head	29.80	48	46	SW	8	b	4
Stornoway	29.23	49	47	SW	5	c	5
Aberdeen	29.45	49	46	SSW	4	bcq	3
Shields	29.66	54	51	SSW	3	op	2
Ardrossan	29.51	51	51	SSW	6	c	4
Malin Head ...	29.41	46	45	SW	5	c	3
Belmullet	29.64	49	44	WSW	7	bcqp	*
Holyhead	29.73	53	51	SW	6	cmp	5

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29.75	51	48	SW	5	qp	5
Scilly	29.91	54	52	S	4	r	5
Jersey							
Hurst Castle ...	29.99	55	54	SW	5	od	5
Dungeness ...	30.04	55	54	SW	5	od	5
North Foreland	30.03	54	52	S	4	c	3
London (Westminster)	29.97	57	55	SSW	3	od	*
Yarmouth ...	29.93	53	53	SSW	5	c	4
Rochefort ...	30.17	54	51	SSE	3	bc	*

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

Weather in morning cloudy and showery over the western and central parts of our Islands, but fine in the east of Scotland and also in the east and southeast of England. Fine also over Belgium, France, Italy, and the Spanish Peninsula, but dull in most of the northern eastern and central countries, with fog in many parts of Denmark, Germany, and Austria, rain over the Gulf of Finland, and snow at Hernösand and Haparanda. Rain falling later in nearly all parts of northwestern Europe – heavily at night in the south and east of England. Aurora seen in the northeast of Scotland.

Temperature fallen in most countries, but risen in Scandinavia and Russia. Morning readings highest (1) 60° at Barcelona, Cagliari and Malta, and 59° at Sanguinaires and Brindisi; (2) 57° at Kent, and 56° at Loughborough and Hurst Castle, above 50° in all but the extreme northern and northwestern parts of our Islands. Lowest 6° at Archangel and Haparanda, 15° at Ukaborg and 20° at Pola; below the freezing point in some parts of South Germany and Central France. Rising during day to between 55° and 57° at nearly all the English stations, exceeding 60° in the south of France and reaching 66° at Nice.

Wind W. or SW. over our Islands, the North Sea, Denmark, Germany, the Netherlands and the north of France, and strong in force at several of the English and Irish stations; E. in the west of Norway. N. or NW. in Sweden; W. in the Baltic and the western and southern parts of Russia, with a gale at Wisby. Light from the E. over northern Italy and the southern part of France; N. over the Spanish Peninsula and southern Italy. No important change occurring over Western Europe later.

Barometer highest 30·4 in. and upwards over Austria, South Germany, and Central France; 30·1 in. and upwards in an anticyclone embracing all the more central and southern parts of Europe. Lowest 29·4 in. and less. in a large depression lying to the northward and northwestward of our Islands; 29·6 in. and less. in another system over the northwestern part of Russia. Former disturbance spreading eastwards, small secondary systems beginning to form over England 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 Thursday, 8th December, 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 ...	29.21	20	NE	0	0	29.11	-.31	27	27	+14	NE	0	fog	*	0	*	?	-6	0.08
	Hernösand ...	29.27	26	NE	0	C	29.14	-.15	19	19	-14	NE	0		*	C	*	34	?	-
	Stockholm ...	29.43	45	SSW	2	R	29.12	-.39	34	34	-13	NW	4		*	R	*	50	?	0.43
	Wisby	29.52	44	SW	6	R	29.23	-.50	40	38	-5	NW	10		*	R	*	46	40	0.12
	Karlstad ...	29.35	42	S	2	0	29.23	-.29	35	34	-10	W	2	bc	*	0	*	*	*	-
	Bodö	29.13	30	E	1	S	29.15	+.02	30	29	+5	E	2	bc	1	S	*	30	21	-
	Christiansund ...	29.12	40	W	3	C	29.32	+.13	37	35	-4	NE	7	R	5	C	*	41	36	0.16
	Skudesnaes ...	29.28	45	WSW	6	bc	29.19	-.28	42	40	-5	W	4	bc	4	C,bc	*	47	39	*
	Færder (Christiania Fjord)	29.29	44	SSW	4	0	29.24	-.25	39	37	-6	WSW	2	b	3	0	*	45	39	-
	Skagen (The Scaw)	29.34	43	NE	0	R	29.29	-.35	41	40	-6	SW	3	0	0	R	*	50	41	0.20
	Fanö	29.45	43	N	2	0	29.39	-.39	42	41	-6	W	4	c	*	or	*	48	41	0.71
	Sumburgh Head	28.96	43	W	5	0	29.76	+.65	36	33	-6	N	4	c	6	R.0	*	45	36	0.30
	Stornoway ...	29.42	38	N	6	bc	29.90	+.74	32	31	-8	NW	2	c	2	hail,bc	0.4	45	29	0.30
	Wick	29.20	40	W	5	bc	29.91	+.69	38	36	-1	N	4	c	4	R,bc	*	43	33	0.10
	Nairn	29.34	43	W	3	0	29.93	+.64	35	33	-1	W	1	c	1	0	*	43	33	0.06
	Aberdeen ...	29.31	41	SW	2	bc	29.88	+.52	37	34	-3	W	3	c	3	bc,hail,R	3.2	42	36	0.11
British Islands.	Leith	29.39	43	WSW	2	C	29.94	+.50	37	37	-6	WNW	1	bm	*	C	*	46	35	-
	Shields	29.49	44	SW	2	bR	29.90	+.34	36	34	-9	W	3	b	2	bc,R	*	48	33	-
	Spurn Head ...	29.58	43	WSW	5	0	29.92	+.29	40	38	-6	WNW	5	b	4	0,b	*	46	40	0.04
	York	29.58	43	W	2	b	30.00	+.38	36	34	-9	WNW	1	b	*	R,b	0.1	47	34	0.06
	Loughborough ...	29.69	41	W	3	b	30.00	+.30	38	36	-7	WNW	1	bc	*	R.0,bc	*	47	38	0.09
	Ardrossan ...	29.44	47	SSW	4	b	29.96	+.50	37	36	-9	N	1	bf	0	C,R,b	*	47	36	0.01
	Malin Head ...	29.55	46	NNW	6	C,hail	29.94	+.54	37	36	-4	SE	3	bcm	2	C,hail	*	48	36	0.05
	Belmullet ...	29.78	47	WNW	5	C	29.94	+.38	44	42	-1	?	5	0	*	C,hail,C	*	49	40	0.09
	Donaghadee ...	29.53	47	WNW	5	C	29.99	+.45	35	35	-5	W	4	b	2	C	*	47	34	-
	Liverpool (Bidston)	29.65	43	WSW	4	R	30.02	+.37	43	40	-2	W	3	0	4	C.R	*	48	42	0.10
	Holyhead ...	29.66	48	W	7	hail,R	30.01	+.38	45	41	-1	NW	3	C	2	bc,R,hail,R	*	49	41	0.02
	Parsonstown ...	29.75	46	NW	2	C	30.00	+.36	42	41	+2	W	0	b	*	bc	3.7	47	39	0.02
	Valencia ...	29.91	48	W	6	C	30.01	+.29	47	45	0	SSE	3	0	4	bc,hail,C	3.7	50	41	0.02
	Roche's Point ..	29.88	46	W	4	b	30.05	+.32	44	42	0	WSW	1	C	3	b	*	49	40	-
	Pembroke (St. Ann's Hd.)	29.82	50	W	6	bc	30.06	+.37	47	44	-2	NW	3	C	4	bc	5.4	50	44	0.19
	Scilly	29.97	50	WNW	6	bc	30.12	+.33	50	47	+1	W	2	0	5	bc	3.5	55	46	0.04
	Prawle Point ...	29.93	45	WNW	5	bc	30.10	+.30	45	43	+1	WNW	4	bc	3	bc,R,bc	*	49	42	0.13
	Jersey (St. Aubin's)																*			
	Hurst Castle ...	29.89	45	WNW	3	b	30.08	+.31	48	40	+2	WNW	3	cm	3	R,hail,b	*	49	42	0.37
	Dungeness ...	29.76	45	WNW	3	b	30.03	+.31	43	43	-12	W	3	C	2	R.C,hail	*	55	41	0.15
	North Foreland	29.75	43	W	4	b	30.01	+.25	44	42	-10	WSW	3	C	2	R.b	*	54	39	0.40
	London (Brixton) ...	29.78	43	SW	2	bm	30.05	+.34	42	41	-4	WNW	2	C	*	R.cm.b	0.0	46	40	0.50
	Oxford	29.82	41	W	3	b	30.04	+.30	42	40	-2	WNW	1	0	*	R,C.b	*	46	41	0.18
	Cambridge ...	29.73	44	W	3	b	30.02	+.30	40	38	-5	WNW	2	b	*	R.b	0.5	47	38	0.29
	Yarmouth ...	29.63	44	WSW	2	C	29.95	+.27	39	37	-8	W	4	bc	4	R,hail,C	*	49	37	0.34
Germany & Holland.	Cuxhaven ...	29.47	50	WSW	4	0	29.54	-.34	43	41	-4	WSW	5	R	*	0	*	50	37	0.12
	Berlin	29.75	40	SSE	3	b	29.76	-.32	43	41	+7	W	3	0	*	b	*	45	36	-
	Wiesbaden ...	*	*	*	*	*	30.03	-.14	42	40	+7	SW	1	C	*	*	*	42	35	0.12
	Munich	29.99	32	E	3	b	30.12	-.13	37	36	+12	SW	5	b	*	b	*	46	25	0.04
	The Helder ...	29.59	48	W	5	C	29.77	-.01	47	42	-2	WNW	6	C	7	C	*	50	45	0.39
Belgium.	Brussels ...	*	*	*	*	*	30.00	+.04	43	42	-4	WSW	3	C	*	b	*	53	36	0.12
	Cape Gris Nez ...	?	49	NW	7	bc	?	?	48	45	-6	NW	6	C	6	bc	*	54	45	0.32
	Paris	29.95	45	WSW	2	b	30.15	+.06	38	37	0	S	2	bc	*	b	*	52	38	0.08
	Brest	30.06	50	W	5	C	30.17	+.29	50	47	-4	NW	1	bc	3	C	*	54	43	0.43
	Lorient	30.10	51	NW	6	C	30.21	+.28	50	47	-5	NW	3	C	5	C	*	57	48	0.12
France &	Rochefort ...	30.11	52	NW	4	0	30.23	+.19	47	46	+3	SE	2	0	*	0	*	57	41	0.12
	Belfort	29.99	42	WSW	3	b	30.20	-.01	38	37	+3	W	3	0	*	b	*	53	35	0.08
	Lyons	30.11	33	SSW	1	0	30.28	+.02	40	39	+10	WSW	1	bc	*	0	*	53	30	0.04
	Nice																*			
	Perpignan ...	30.19	49	W	1	b	30.20	-.01	54	50	+12	W	3	0	*	b	*	61	42	-
	Biarritz ...	30.17	56	W	2	0	30.26	+.14	50	46	-7	SE	2	R	3	0	*	63	46	0.20
Peninsula.	Corunna ...																*			
	Lisbon	30.34	53	N	2	b	30.37	+.04	46	45	-1	NNE	2	b	*	b	*	59	45	-
	Azores (P. Delgada)	30.04	63	E	4	b	30.06	+.15	61	59	-3	ESE	2	C	4	b	*	68	59	-

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 Thursday, 8th December, 1898

BAROMETER, WIND AND SEA.

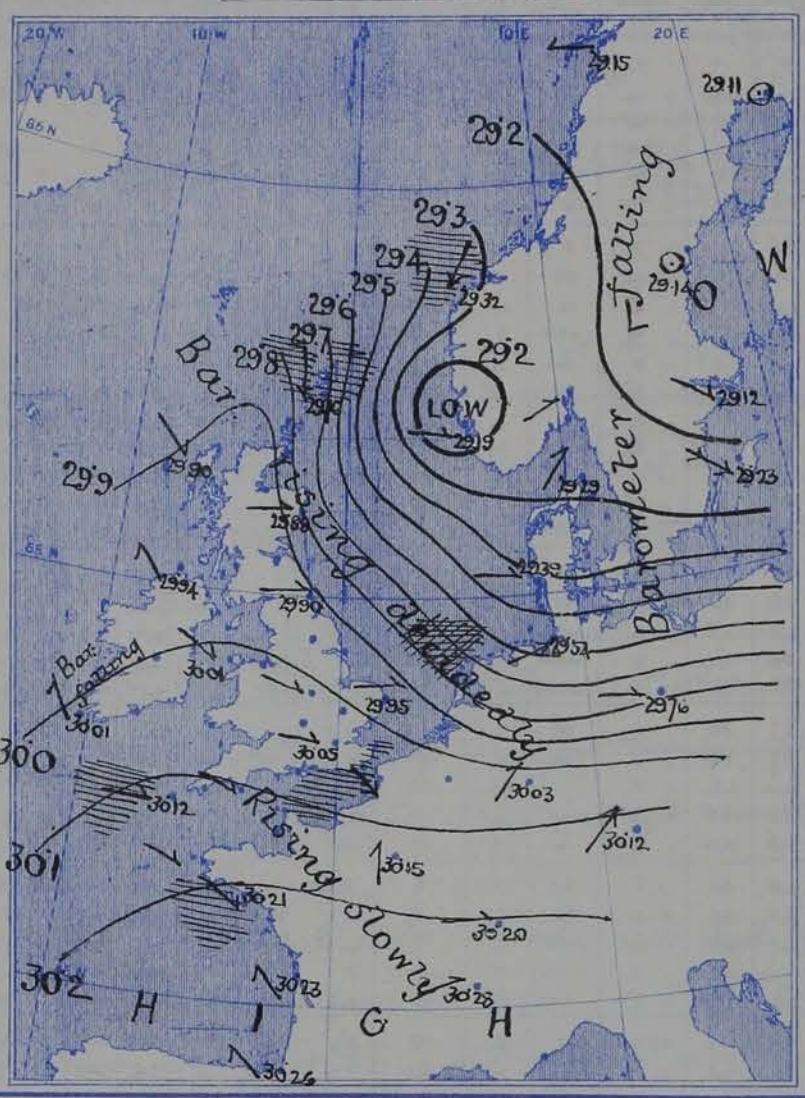
BAROMETER—Isobars are drawn for each tenth of an inch.

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 ▓

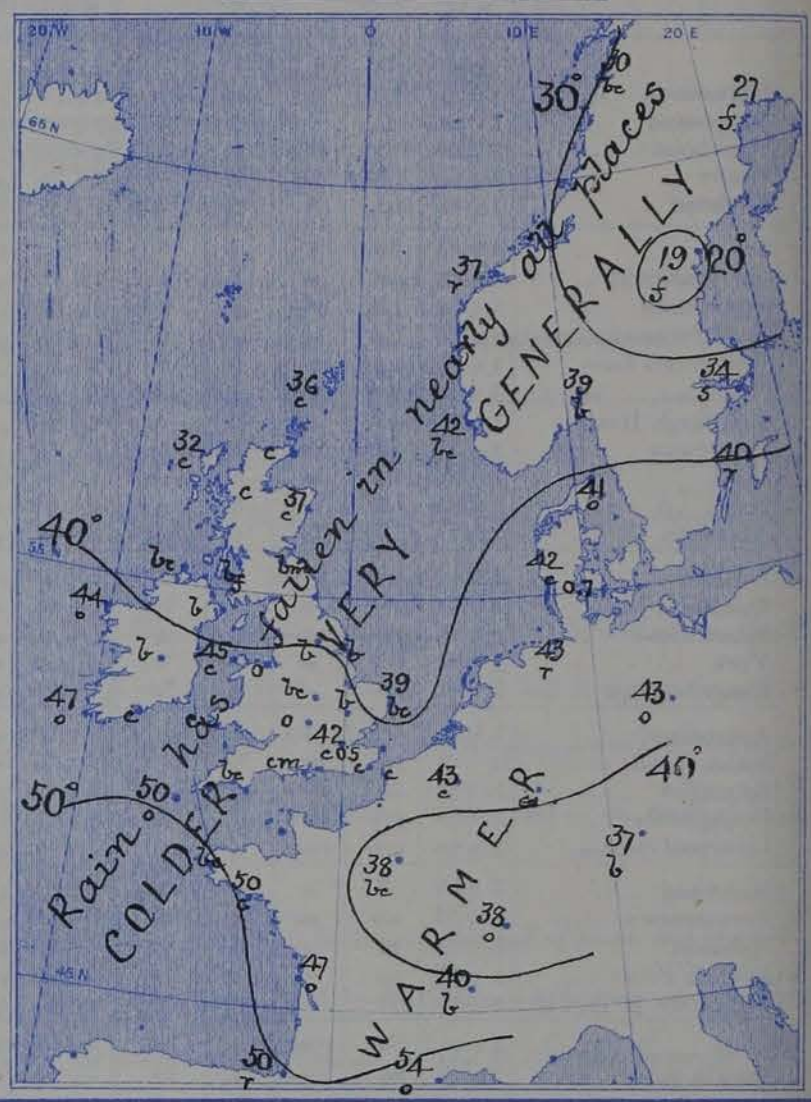


TEMPERATURE & WEATHER.

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 DECEMBER.*

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 · 656	39 · 8	38 · 3	42 · 8	35 · 5	53	1890	19	1877	4 · 27	—	—
Stornoway	29 · 688	39 · 6	38 · 7	43 · 3	34 · 4	54	1880	15	1880	5 · 64	25 · 4	13
Wick	29 · 699	38 · 3	37 · 1	42 · 4	33 · 0	55	1889, 94	10	1882	3 · 17	—	—
Nairn	29 727	37 · 2	35 · 7	42 · 2	32 · 4	57	1888, 90, 91, 92, 94	10	1882	1 . 94	—	—
Aberdeen	29 · 758	37 · 0	35 · 3	42 · 0	32 · 8	58	1873	6	1882	3 · 11	39 · 9	20
Leith	29 · 797	38 · 7	37 · 2	44 · 1	33 · 7	58	1873, 88	6	1882	1 · 89	—	—
Shields	29 · 836	38 · 4	37 · 0	43 · 1	33 · 9	59	1873	10	1878, 79	2 · 32	—	—
Spurn Head	29 · 870	38 · 9	37 · 8	42 · 6	35 · 4	55*	1888	19*	1891	2 · 05	—	—
York	29 · 886	36 · 6	35 · 6	42 · 5	32 · 4	59	1888, 91	0	1879	2 · 21	26 · 5	12
Loughborough	29 · 922	36 · 4	35 · 4	43 · 0	32 · 3	59*	1888	7*	1890	2 · 24	—	—
Ardrossan	29 · 809	40 · 3	39 · 1	44 · 7	36 · 2	55	1880	15	1879	3 · 66	—	—
Malin Head	29 · 768	41 · 3	39 · 6	45 · 2	38 · 1	—	—	—	—	—	—	—
Belmullet	29 · 822	42 8	40 · 9	46 · 9	39 · 0	—	—	—	—	5 · 36	—	—
Donaghadee	29 · 840	40 · 4	39 · 5	45 · 8	36 · 3	56	1885, 88, 94	20	1879	2 · 85	—	—
Holyhead	29 · 876	42 · 8	41 · 2	46 · 5	39 · 2	56	1872, 88	25	1874	3 · 83	—	—
Liverpool	29 · 891	39 · 0	37 · 3	43 · 8	35 · 7	59	1891	13	1878	2 · 62	—	—
Parsonstown	29 · 891	38 · 3	37 · 0	45 · 1	33 · 5	58	1877	8	1878	3 · 09	45 · 0	20
Valencia	29 · 900	45 · 0	42 · 9	49 · 9	40 · 4	57	1884, 88	24	1886	5 · 93	43 · 9	19
Roche's Point	29 · 908	43 · 5	42 · 1	48 · 2	39 · 4	58	1873	25	1882	5 · 16	—	—
Pembroke	29 · 914	43 · 9	42 6	47 · 0	40 · 5	55	1876	19	1890	3 · 96	46 · 0	20
Scilly	29 · 950	47 · 4	45 · 5	49 · 8	43 · 6	57	1876	30	1890	4 · 00	—	—
Prawle Point	29 · 970	42 · 8	41 · 4	47 · 3	38 · 5	55*	1881, 88	25*	1885, 87, 90	3 · 77	—	—
Jersey	29 · 993	43 · 5	41 · 7	47 · 7	39 · 7	61	1876	19	1871	3 · 76	62 · 6	25
Hurst Castle	29 · 962	40 · 9	40 · 1	45 · 9	36 · 7	58	1876	19	1890	2 · 77	—	—
Dover	29 · 954	40 · 0	38 · 9	44 · 7	35 · 9	56	1880	12	1890	2 · 79	—	—
LONDON	29 · 956	38 · 0	36 · 8	44 · 3	34 · 0	58	1873, 88, 91	11	1878	2 · 11	11 · 8†	5†
Oxford	29 · 956	37 · 1	36 · 0	43 · 2	33 · 6	58	1888	6	1878	2 · 10	41 · 8	18
Cambridge	29 · 941	36 · 4	35 · 6	43 · 2	31 · 6	59	1878, 88	0	1879	1 · 82	41 2	18
Yarmouth	29 · 915	38 · 1	37 · 1	42 · 2	33 · 8	56	1873	15	1879	2 · 53	—	—

* 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, 30·37 in: at Lisbon; 30·2 in: and upwards in an anticyclone lying over the whole of the Spanish Peninsula, the Bay of Biscay, and the central and southern parts of France

Lowest, 29·2 in: and less, over Sweden and the north of Norway, and also in a small depression over the southwest of Norway.

Gradients steep over Germany and the North Sea, but slight elsewhere.

Barometer rising in our Islands, France, and Germany, quickly on our north and east coasts, but beginning to fall again in the west of Ireland; falling also in Scandinavia and Denmark.

TEMPERATURE

Highest, 54° at Perpignan, 50° at Scilly, Brest, Lorient, and Biarritz, and 48° at Hunt Carlle and Cape Gris Nez.

Lowest, (1) 19° at Haparanda, 27° at Haparanda, 30° at Boden, 31° at Stornoway, and 35° at Nairn and Donaghadee; (2) 37° at Munich, and 38° at Paris Belfort.

The maxima registered yesterday were below 50° on all but our extreme southwest and southeast coasts. In the north of Scotland the thermometer did not exceed 45°.

WIND

Light to moderate from the W.ly or NW.ly over the greater part of our Islands, but SE. in the west of Ireland.

W. or SW. over Germany, Denmark and the south of Norway; NW. in the south of Sweden, with a gale at Visby; calm in the Gulf of Bothnia; E. or NE. in the west of Norway.

Light from the SE.ly in the southwest of France.

WEATHER

Fair or fine over Western Europe as a whole, but dull in the west of Ireland, and also in the southwest of France, with rain at Biarritz.

Rain is falling also at Christiansund, Visby and Cuxhaven, and snow at Stockholm. Fog prevails in the Gulf of Bothnia.

Rain again fell yesterday in nearly all parts of Western Europe, the largest amounts being 0·7 in: at Tarè and 0·5 in: in London. Aurora has been seen at Loughborough.

SEA

High at the Helder, rough at Cape Gris Nez, and also at Lumburgh Head and rather rough at Scilly and Lorient.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depressions noticed yesterday off the north of Scotland, and the small secondary systems over England have passed away to the eastward. The changes in progress in the extreme west indicate the approach of fresh disturbances, so that unsettled weather is still probable over our Islands.

FORECASTS

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

DISTRICTS.		FORECASTS.
▼ 0	SCOTLAND NORTH	NW. winds, backing later to the S.; fine at first, then cloudy with some rain.
▼ 1	SCOTLAND EAST	
2	ENGLAND N.E.	Same as No 5.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	W. to SW. winds, moderate or fresh; fair at first, some rain later.
▼ 6	SCOTLAND WEST	Same as Nos 0 and 1
▼ 7	ENGLAND N.W.	
8	ENGLAND S.W.	W. to SW. winds, freshening, cloudy, some rain.
▼ 9	IRELAND NORTH	S. winds, increasing in force, cloudy, some rain.
10	IRELAND SOUTH	

WARNINGS

At 7·10 pm yesterday to district 7 and part of 9 "Hoist North Cone". The signals are also flying in districts 0, 6, part of 1, and the remainder of 9.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.		BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.31	46	42	SW	6	c	5	Valencia	29.83	49	44	N	6	bcqr	6
Sumburgh Head	28.95	42	41	SW	6	r	6	Scilly	29.87	50	45	NNW	7	bcq	5
Stornoway	29.22	45	43	NW	3	bc	3	Jersey							
Aberdeen	29.29	41	38	SW	4	bcq	3	Hurst Castle ...	29.77	49	46	W	5	bcq	3
Shields	29.48	47	42	SW	2	bc	2	Dungeness ...	29.72	43	43	NW	5	r	5
Ardrossan	29.41	46	45	SSW	4	cp	4	North Foreland	29.69	43	42	W	4	r	2
Malin Head ...	29.36	45	45	SW	5	c	4	London (Westminster)	29.70	46	45	W	2	0	*
Belmullet	29.60	49	46	WNW	8	cqp	*	Yarmouth ...	29.59	44	43	WSW	3	qr	4
Holyhead	29.63	46	42	W	5	bcp	4	Rochefort ...	30.00	56	54	WSW	4	0	*

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

Weather in morning dull over England, with rain at nearly all the eastern, central, and southern stations; fine in most parts of Ireland and Scotland, but with showers in a few places. Fine over southern Europe and a considerable part of France and Germany, but foggy in Austria; thunderstorm reported at Lisbon, dull in the northern countries, with rain over the Gulf of Finland and snow over the northern parts of Finland and Scandinavia. Weather improving later over England, but rain falling in the western parts of the Continent, and parting showers in the west and north of our Islands.

Temperature fallen in most countries, but risen in France and Spain and also in the north of Scandinavia. Morning readings highest 61° at Bilbao and Cagliari, and 59° at Santander and Algiers; above 50° at most of the Mediterranean and Adriatic stations and also in the northwest of France. Lowest (1) 3° at Archangel, 13° at Haparanda and 19° at Ulealborg; (2) 25° at Munich and 30° at Lyons. Daily maxima in our Islands, below 50° in all but our extreme southwest and southeast coasts, thermometer exceeding 55° in the west of France and exceeding 60° in the extreme south of that country.

Wind moderate to strong from the SW^{ly} or W^{ly} over northern and northwestern Europe as a whole with a gale at Christiansund, but light from the NW^{ly} at some stations in the south and east of England; SE^{ly} over northern Russia and E^{ly} in the north of Scandinavia. Light from between S. and E. in France, and from the E^{ly} or NE^{ly} in Spain, variable in Greece and Italy, calm in Austria, light from the W^{ly} in the south of Russia. Subsequently veering to the W^{ly} or NW^{ly} in our Islands, and increasing to a gale on our extreme north and northwest coasts.

Barometer highest 30·4 in. and upwards over eastern Austria, 30·1 ins. and upwards in an anticyclone covering the central, southern and eastern parts of Europe generally. Lowest 29·2 in. and less in a large area lying to the northward of our Islands and the westward of Norway; shallow secondary depressions reported over England and the North Sea. Rather deep depression appearing later near the Shetlands, secondary systems moving away to the eastward.

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, 9th December, 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 ...	29·00	14	NE	4	0	29·23	+·12	21	21	− 6	NNW	4	c	*	0	*	27	9	0·08
	Hernösand ...	29·32	27	NW	6	b	29·65	+·51	21	21	+ 2	S	2	b	*	b	*	30	16	–
	Stockholm ...	29·50	33	SW	4	b	29·91	+·79	27	23	− 7	WNW	2	b	*	b	*	45	27	0·08
	Wisby	29·54	39	NW	6	bc	29·97	+·74	34	30	− 6	NNW	6	b	*	bc	*	43	34	–
	Karlstad ...	29·70	32	N	4	b	29·91	+·68	30	26	− 5	SW	2	c	*	b	*	*	*	–
	Bodö	29·29	25	NE	6	S	29·29	+·14	36	35	+ 6	W	6	bc	3	S	*	?	?	–
	Christiansund ...	29·78	31	NW	4	0	29·53	+·21	31	30	− 6	SE	3	c	5	0	*	?	27	0·04
	Skudesnaes ...	29·89	34	N	2	b	29·57	+·38	40	38	− 2	SSE	8	0	5	b	*	42	30	*
	Færder (Christiania Fjord)	29·72	38	N	2	b	29·80	+·56	39	36	0	SSE	6	c	3	b	*	39	34	–
	Skagen (The Scaw)	29·85	40	N	2	b	29·87	+·58	41	37	0	SW	4	0	0	b	*	45	34	–
	Fanö	29·94	39	NW	2	b	29·87	+·48	40	38	− 2	S	4	c	*	b	*	45	39	–
	Sumburgh Head	29·79	35	S	1	0	29·06	−·70	45	44	+ 9	S	4	0	6	c.o	*	45	38	0·20
	Stornoway ...	29·54	43	S	8	0	29·07	−·83	44	43	+ 12	NNW	3	0	3	0	0·0	45	30	0·60
	Wick	29·78	40	S	5	c	29·11	−·80	44	43	+ 6	S	3	c	4	c	*	44	32	0·10
	Nairn	29·74	37	SSW	1	bc	29·14	−·79	43	41	+ 8	W	2	bc	1	bc	*	43	30	0·03
	Aberdeen ...	29·87	35	S	3	oq	29·22	−·66	42	40	+ 5	SW	3	bc	4	b.o.g.r	4·2	44	34	0·15
	Leith	29·93	39	NNW	1	0	29·28	−·66	46	46	+ 9	WSW	3	bcm	*	0	*	47	34	0·03
	Shields	30·02	38	W	2	m	29·40	−·50	45	43	+ 9	SW	3	bc	2	bc.m.r	*	45	33	0·05
	Spurn Head ...	30·04	39	SSW	3	0	29·55	−·37	45	44	+ 5	WSW	3	0	2	bc.p	*	47	38	0·13
	York	30·04	39	S	1	0	29·52	−·48	45	43	+ 9	SW	2	b	*	b,o.r	4·0	46	36	0·23
	Loughborough ...	30·06	37	W	1	0	29·59	−·41	47	45	+ 9	W	3	cu	*	bc.o.c	*	49	36	0·39
BRITISH ISLANDS.	Ardrossan ...	29·82	42	ESE	4	of	29·36	−·60	47	47	+ 10	SW	6	opo	5	of	*	47	37	0·12
	Malin Head ...	29·57	43	S	7	cq	29·36	−·58	46	44	+ 9	W	6	o.qr	6	o.rl	*	48	36	0·31
	Belmullet ...	29·56	49	SSW	8	rq	29·59	−·35	47	43	+ 3	W	6	o	*	r.rq	*	50	41	0·38
	Donaghadee ...	29·81	45	SW	5	0	29·44	−·55	42	41	+ 7	WSW	6	b	4	o	*	45	32	0·12
	Liverpool (Bidston)	29·99	42	SE	2	0	29·57	−·45	47	44	+ 4	WSW	5	r	5	o.rq	*	48	41	0·14
	Holyhead ...	29·91	48	S	3	q.a.m	29·50	−·42	48	45	+ 3	W	7	c.q	5	c.m.am	*	51	41	0·38
	Parsonstown ...	29·74	47	S	2	r	29·66	−·34	43	41	+ 1	SW	1	p	*	o.r	0·0	51	40	0·13
	Valencia ...	29·70	50	SSE	5	q.r	29·79	−·22	49	44	+ 2	WSW	6	c	6	o.q.r	0·0	51	46	0·40
	Roche's Point ...	29·83	50	SSW	6	r	29·78	−·27	47	45	+ 3	NW	4	c	4	r.q.p	*	51	42	0·20
	Pembroke (St. Ann's Hd.)	29·95	51	SW	5	bc	29·70	−·36	52	48	+ 5	WNW	7	bc	6	o	0·6	53	44	0·28
	Scilly	30·01	53	SSW	3	o.p	29·86	−·26	52	49	+ 2	W	7	bc	5	c.o.p	0·7	55	47	0·35
	Prawle Point ...	30·08	50	WSW	4	c	29·81	−·29	47	46	+ 2	W	6	c.p	4	c.p.q.p	*	52	43	0·32
	Jersey (St. Aubin's)																*			
	Hurst Castle ...	30·11	48	WNW	1	bc	29·73	−·35	52	50	+ 4	W	4	o.g.m.p	3	cm.bc	*	53	46	0·17
	Dungeness ...	30·12	43	N	0	c	29·61	−·39	52	52	+ 9	SW	8	r	7	c	*	52	41	0·11
	North Foreland	30·14	42	SSW	1	b	29·70	−·31	45	44	+ 1	SSW	4	r	3	b	*	45	39	0·12
	London (Brixton) ...	30·10	42	N	0	bcf	29·68	−·37	50	49	+ 8	WSW	3	0	*	bc.o.r.q	0·2	50	39	0·08
	Oxford	30·06	44	SW	2	0	29·67	−·37	49	47	+ 7	WSW	2	c.p	*	bc.r	*	51	40	0·17
	Cambridge ...	30·10	37	SSW	1	0	29·62	−·40	49	48	+ 9	SW	2	b	*	bc.o.r	4·7	50	36	0·16
	Yarmouth ...	30·08	38	WNW	1	bc	29·60	−·35	48	46	+ 9	SSW	5	q.q.r	4	b.bc.o.r	*	48	36	0·14
GERMANY & HOLLAND.	Cuxhaven ...	29·81	45	NW	6	0	29·94	+·40	37	36	− 6	S	2	0	*	o.r	*	48	36	0·20
	Berlin	29·84	43	W	5	c	30·12	+·36	37	36	− 6	W	2	b	*	c	*	45	?	0·04
	Wiesbaden ...	*	*	*	*	*	30·16	+·13	38	37	− 4	W	1	0	*	*	*	46	34	0·04
	Munich	30·22	41	SW	5	0	30·26	+·14	31	30	− 6	SSE	3	bc	*	0	*	43	30	–
	The Helder ...	30·04	47	NW	2	b	29·71	−·06	?	41	?	S	3	0	2	b	*	48	39	0·04
BELGIUM.	Brussels ...	*	*	*	*	*	29·92	−·08	44	41	+ 1	SSW	5	0	*	0	*	48	34	–
	Cape Gris Nez ...	?	45	WNW	1	m	?	?	49	48	+ 1	SW	5	r	5	m	*	49	39	0·20
	Paris	30·22	42	SSW	2	0	30·08	−·07	41	40	+ 3	S	4	r	*	0	*	50	35	–
	Brest	30·15	53	WSW	2	c	29·96	−·21	51	50	+ 6	W	6	c	6	c	*	55	43	0·32
	Lorient	30·22	53	NW	4	c	30·03	−·18	55	54	+ 5	W	6	0	7	c	*	57	50	0·12
FRANCE &	Rochefort ...	30·23	50	W	2	0	30·19	−·04	54	52	+ 7	W	5	0	*	c.o	*	54	45	0·04
	Belfort	30·27	39	WSW	4	b	30·26	+·06	32	31	− 6	SW	3	0	*	b	*	49	30	–
	Lyons	30·33	41	NNW	1	b	30·34	+·06	31	31	− 9	S	1	b	*	b	*	48	30	–
	Nice	30·06	48	E	1	b	30·16	+·19	46	43	− 4	E	2	b	2	b	*	57	45	–
	Perpignan ...	30·30	51	W	2	b	30·31	+·11	45	42	− 9	W	2	b	*	b	*	56	40	–
	Biarritz ...	30·28	54	S	2	c	30·28	+·02	48	45	− 2	S	3	0	4	c	*	55	46	–
PENINSULA.	Corunna ...																*			
	Lisbon	30·38	53	N	3	b	30·45	+·08	51	51	+ 5	NNE	2	0	*	b	*	59	46	–
	Azores (P. Delgada)	30·17	62	ENE	2	bc	30·18	+·12	62	57	+ 1	E	3	b	4	bc	*	68	59	–

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.*

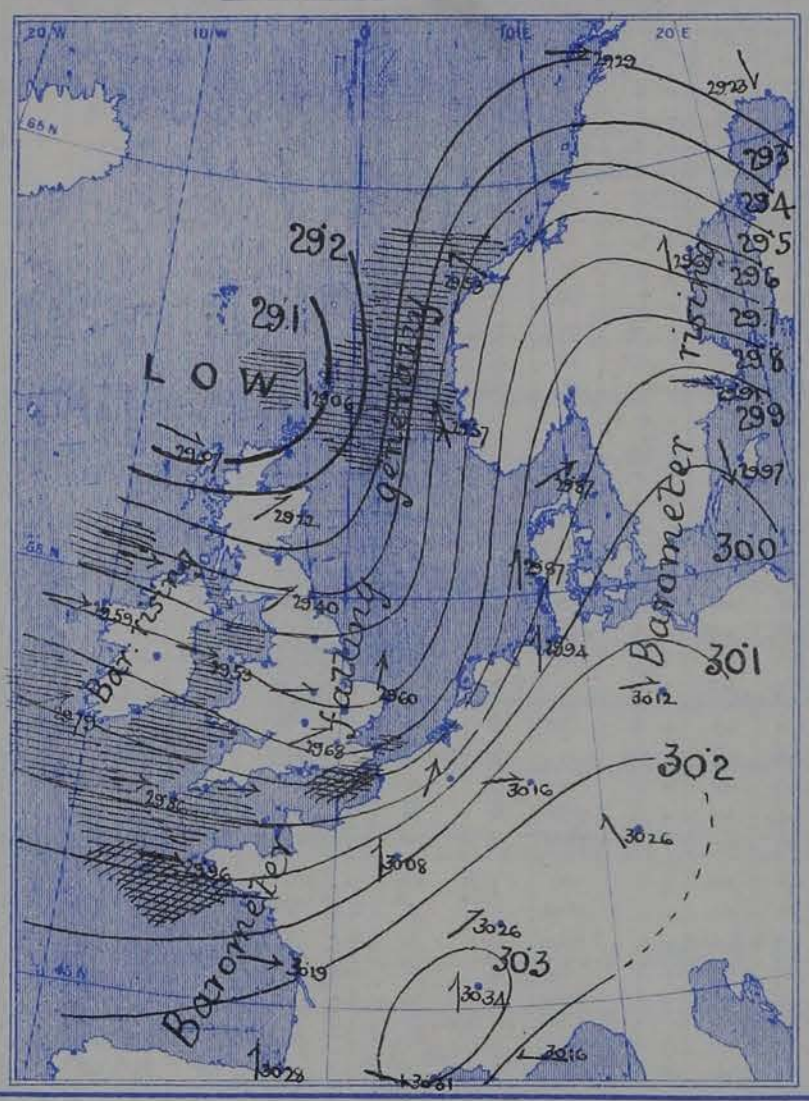
Bright Sunshine yesterday Southport 2·0 hrs;

WEATHER CHARTS

FOR Friday, 9th December 1898

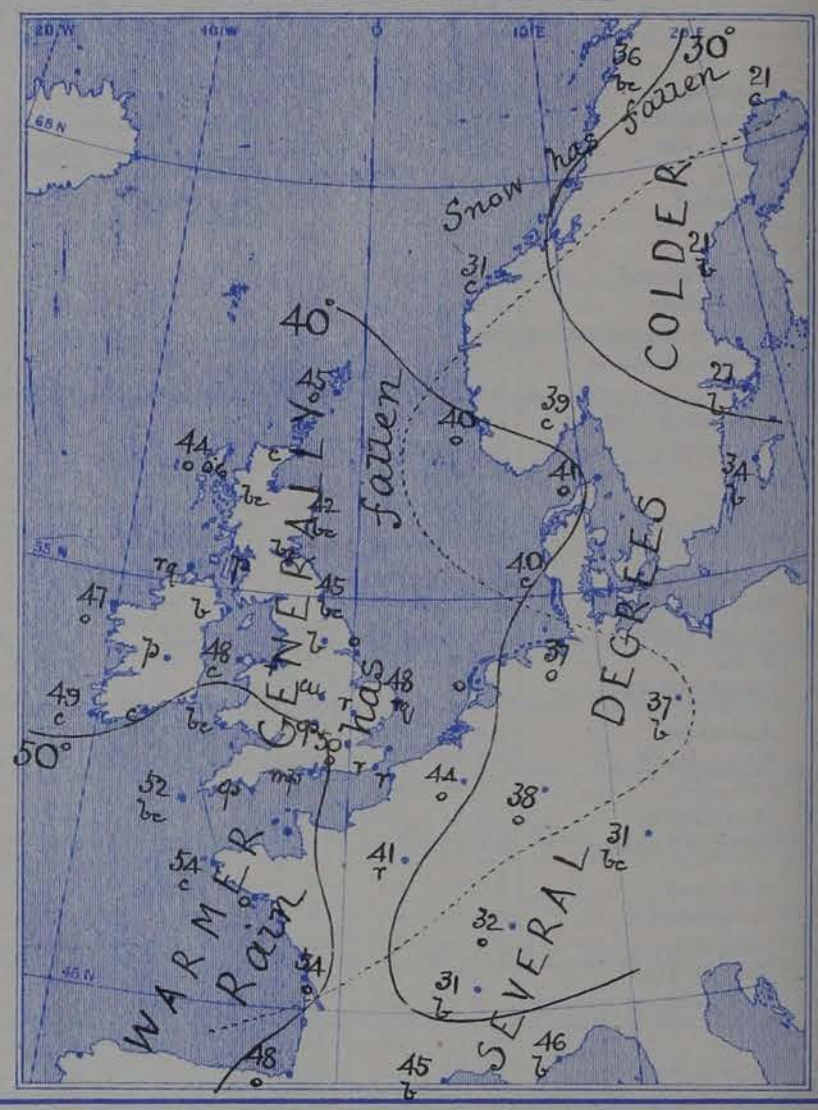
BAROMETER, WIND AND SEA.

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 DECEMBER.

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 · 656	39 · 8	38 · 3	42 · 8	35 · 5	53	1890	19	1877	4 · 27	—	—
Stornoway	29 · 688	39 · 6	38 · 7	43 · 3	34 · 4	54	1880	15	1880	5 · 64	25 · 4	13
Wick	29 · 699	38 · 3	37 · 1	42 · 4	33 · 0	55	1889, 94	10	1882	3 · 17	—	—
Nairn	29 · 727	37 · 2	35 · 7	42 · 2	32 · 4	57	1888, 90, 91, 92, 94	10	1882	1 . 94	—	—
Aberdeen	29 · 758	37 · 0	35 · 3	42 · 0	32 · 8	58	1873	6	1882	3 · 11	39 · 9	20
Leith	29 · 797	38 · 7	37 · 2	44 · 1	33 · 7	58	1873, 88	6	1882	1 · 89	—	—
Shields	29 · 836	38 · 4	37 · 0	43 · 1	33 · 9	59	1873	10	1878, 79	2 · 32	—	—
Spurn Head	29 · 870	38 · 9	37 · 8	42 · 6	35 · 4	55*	1888	19*	1891	2 · 05	—	—
York	29 · 886	36 · 6	35 · 6	42 · 5	32 · 4	59	1888, 91	0	1879	2 · 21	26 · 5	12
Loughborough	29 · 922	36 · 4	35 · 4	43 · 0	32 · 3	59*	1888	7*	1890	2 · 24	—	—
Ardrossan	29 · 809	40 · 3	39 · 1	44 · 7	36 · 2	55	1880	15	1879	3 · 66	—	—
Malin Head	29 · 768	41 · 3	39 · 6	45 · 2	38 · 1	—	—	—	—	—	—	—
Belmullet	29 · 822	42 8	40 · 9	46 · 9	39 · 0	—	—	—	—	5 · 36	—	—
Donaghadee	29 · 840	40 · 4	39 · 5	45 · 8	36 · 3	56	1885, 88, 94	20	1879	2 · 85	—	—
Holyhead	29 · 876	42 · 8	41 · 2	46 · 5	39 · 2	56	1872, 88	25	1874	3 · 83	—	—
Liverpool	29 · 891	39 · 0	37 · 3	43 · 8	35 · 7	59	1891	13	1878	2 · 62	—	—
Parsonstown	29 · 891	38 · 3	37 · 0	45 · 1	33 · 5	58	1877	8	1878	3 · 09	45 · 0	20
Valencia	29 · 900	45 · 0	42 · 9	49 · 9	40 · 4	57	1884, 88	24	1886	5 · 93	43 · 9	19
Roche's Point	29 · 908	43 · 5	42 · 1	48 · 2	39 · 4	58	1873	25	1882	5 · 16	—	—
Pembroke	29 · 914	43 · 9	42 6	47 · 0	40 · 5	55	1876	19	1890	3 · 96	46 · 0	20
Scilly	29 · 950	47 · 4	45 · 5	49 · 8	43 · 6	57	1876	30	1890	4 · 00	—	—
Prawle Point	29 · 970	42 · 8	41 · 4	47 · 3	38 · 5	55*	1881, 88	25*	1885, 87, 90	3 · 77	—	—
Jersey	29 · 993	43 · 5	41 · 7	47 · 7	39 · 7	61	1876	19	1871	3 · 76	62 · 6	25
Hurst Castle	29 · 962	40 · 9	40 · 1	45 · 9	36 · 7	58	1876	19	1890	2 · 77	—	—
Dover	29 · 954	40 · 0	38 · 9	44 · 7	35 · 9	56	1880	12	1890	2 · 79	—	—
LONDON	29 · 956	38 · 0	36 · 8	44 · 3	34 · 0	58	1873, 88, 91	11	1878	2 · 11	11 · 8†	5†
Oxford	29 · 956	37 · 1	36 · 0	43 · 2	33 · 6	58	1888	6	1878	2 · 10	41 · 8	18
Cambridge	29 · 941	36 · 4	35 · 6	43 · 2	31 · 6	59	1878, 88	0	1879	1 · 82	41 · 2	18
Yarmouth	29 · 915	38 · 1	37 · 1	42 · 2	33 · 8	56	1873	15	1879	2 · 53	—	—

* 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 30.34 ins. at Lyons; 30.2 ins. and upwards in an anticyclone lying over the Spanish Peninsula and the southern parts of France and Germany.
Lowest 29.1 ins. and less in a depression lying off the N. of Scotland.
Gradients moderate over our Islands; steep over the North Sea and the N.W. parts of the Continent generally.
Barometer rising at many of our W. stations and also in Sweden and Germany, falling elsewhere.

TEMPERATURE

Highest 55° at Lorient, 54° at Brest and Rochefort, and 52° at Pembroke, Scilly, Hurst Castle & Dungeness.
Lowest (1) 21° at Haparanda and Hernösand, and 27° at Stockholm, (2) 31° at Munich and Lyons, lowest in our Islands 42° at Aberdeen and Donaghadee.
Since yesterday a rise of several degrees has taken place over the United Kingdom, this morning's readings being in many cases the maxima for the past 24 hours.

WIND

Strong from the W.wd. in the western parts of our Islands and France, with a moderate gale in places.
Light from the SW.wd. on our east coasts, and blowing a gale from the same quarter in the Straits of Dover.
Light to moderate from the S.wd. over central France, the Netherlands and Denmark, SE. in the south of Norway, with a gale at Skudesnaes, NW. at most of the Swedish stations.

WEATHER

Rainy on the E. and SE. coasts of England, and showery in many other parts of our Islands, but fine in the E. of Scotland.
Dull in neighbouring parts of the Continent, with rain at Cape Gris Nez and Paris; fine in Sweden and also in Germany and the S. of France.
Since yesterday morning rain has fallen over the whole of our Islands and their neighbourhood, the largest amount being 0.6 in. at Stornoway. A solar halo was seen yesterday at Oxford.

SEA

High in the Straits of Dover, and rough or rather so on our W., S. and extreme N. coasts generally.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression in the N. is apparently moving NE.wds, but small secondary systems are likely to advance over our Islands from the W.wd., and squally, unsettled weather is probable in most districts.

FORECASTS

For the 24 hours ending at NOON on 10TH DECEMBER 1898.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	SW. to S. winds, strong in places, fine at first, some rain later.	6 SCOTLAND WEST	Strong winds or gales from the W.wd., backing later to the SW.wd. or S.wd.; squally, some rain.
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	SW. winds, strong in places, mild, changeable, some showers.	WARNINGS	At 3.20 pm. yesterday to districts 0, 1, 6, 9 and 10., and at 7 pm to districts 2, 3, 5, 7 and 8. 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 ...	29.67	40	36	NNW	8	b	4
Sumburgh Head	29.87	35	32	E	0	c	5
Stornoway	29.79	41	37	S	6	o	6
Aberdeen	29.97	38	34	SW	1	b	3
Shields	30.02	40	37	N	3	bc	2
Ardrossan	29.95	41	39	ENE	1	o	2
Malin Head ...	29.79	41	39	S	5	o	3
Belmullet	29.77	49	48	SSW	1	r	*
Holyhead	30.01	47	44	S	3	cm	2
Valencia	29.85	50	49	S	5	oq	5
Scilly	30.09	52	51	SSW	2	c	5
Jersey							
Hurst Castle ...	30.11	48	46	NNE	1	cm	1
Dungeness ...	30.10	46	44	NW	2	c	1
North Foreland	30.11	44	40	NNW	3	c	1
London (Westminster)	30.10	48	43	NW	2	c	*
Yarmouth ...	30.05	43	40	W	3	bc	*
Rochefort ...	30.16	53	50	SSW	2	c	*

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

Weather in morning fair or fine over W^rn. Europe generally, but dull in the W. of Ireland. Cloudy or dull in most of the E^rn, central and S^rn countries, with rain in several parts of Scandinavia and N^rn Russia, as well as at Biarritz and Florence; and a thunderstorm at Lesina; snow falling at Stockholm. Rain spreading later from the W^rd over the whole of our Islands, and the neighbouring parts of the Continent.

Temperature fallen over our Islands and N^rn Europe, but risen elsewhere. Morning readings highest 59° at Sanguinaire, 58° at Leghorn and Algiers, and 57° at Malta; above 50° at most of the Mediterranean and Adriatic stations. Lowest (1) 19° at Hernösand, 27° at Haparanda, and 30° at Bodö; (2) 26° at Hermanstadt; (3) 32° at Stornoway, and 35° at Nairn and Donaghadee. Remaining below 45° all day at several of our N^rn stations, and below 50° on all but our SW. coasts. Reaching 55° or more in the W. and S. of France, and 59° at Lisbon.

Wind light to moderate from the W^rd or NW^rd over the greater part of our Islands, but S. 3 or SE. 3 in the west of England. Moderate to strong from the W^rd or SW^rd over Denmark, Germany and the south of Norway, but NW. 7 in the south of Sweden, with a gale at Visby; calm in the Gulf of Bothnia; E. 3 or NE. 3 in the west of Norway. Variable over Austria and Italy, but W. 3 in the south of France, SE. 3 in the west of that country, and E. 3 to N. 3 in Spain. Subsequently backing to the S^rd in all parts of our Islands, and increasing to a gale in the west and north.

Barometer highest 30.41 ins. at Madrid; 30.1 ins. and upwards in an anticyclone covering the greater part of S^rn Europe. Lowest 29.2 ins. and less over Sweden, and also in a small depression over the SW. of Norway. Norwegian depression subsequently moving away quickly to the eastward, but new and large disturbance appearing off our own NW. 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.

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 Saturday, 10th December, 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 ...	29.39	44	S	2	b	29.43	+ .20	-2	-2	- 23	NE	0	f	8	b	8	21	-2	-
	Hernösand ...	29.54	36	NE	0	b	29.32	- .33	29	29	+ 8	S	2	8	8	b	8	29	18	0.04
	Stockholm ...	29.78	34	S	2	o	29.45	- .46	38	37	+ 11	SE	2	o	8	o	8	38	25	0.04
	Wisby	29.78	38	S	4	o	29.56	- .41	41	40	+ 7	NNW	6	o	8	o	8	41	28	0.16
	Karlstad ...	29.54	34	SSE	4	s	29.38	- .53	35	34	+ 5	W	1	f	8	s	8	8	8	0.16
	Bodö	29.53	32	E	0	bc	29.19	- .10	28	25	- 8	ENE	5	o	2	bc	8	36	7	-
	Christiansund ...	29.17	40	ESE	3	o	29.20	- .33	40	39	+ 9	N	2	o	4	o	8	41	30	0.12
	Skudesnaes ...	29.30	46	S	2	o	29.35	- .22	46	44	+ 6	S	6	o	5	r.o	8	46	39	8
	Færder (Christiania Fjord)	29.37	41	SSE	1	r	29.39	- .41	40	38	+ 1	WSW	4	o	4	r	8	43	37	0.39
	Skagen (The Scaw)	29.45	42	SW	9	o	29.52	- .35	45	44	+ 4	W	4	m	1	o	8	46	41	0.16
	Fanö	29.62	47	W	6	b	29.82	- .05	46	44	+ 6	W	6	c	8	b	8	46	39	0.20
British Islands.	Sumburgh Head	29.19	43	W	3	o	28.91	- .12	43	41	- 2	W	6	o	6	c	8	45	40	0.36
	Stornoway ...	29.44	41	NW	3	b	29.24	+ .17	46	45	+ 2	NW	8	o	8	c.b	1.1	46	39	0.50
	Wick	29.36	44	NNW	4	o	29.18	+ .07	44	43	o	NNW	7	ov	5	o	8	48	39	0.40
	Nairn	29.50	43	WSW	4	bc	29.32	+ .18	48	42	+ 5	NNW	5	o	2	bc	8	50	40	0.39
	Aberdeen ...	29.49	42	WSW	3	b	29.40	+ .18	45	40	+ 3	WSW	6	bcq	3	bcq.r	4.9	50	40	0.10
	Leith	29.56	44	WSW	3	bc	29.59	+ .31	49	48	+ 3	W	5	b	8	bc	8	53	41	0.09
	Shields	29.64	45	WSW	4	b	29.62	+ .22	53	50	+ 8	SW	6	op	2	b	8	53	43	-
	Spurn Head ...	29.76	45	W	6	b	29.85	+ .30	51	50	+ 6	WSW	5	c	4	c.b	8	51	42	-
	York	29.76	45	WSW	3	b	29.85	+ .33	53	50	+ 8	W	5	bc	8	o.b	o o	53	43	-
	Loughborough ...	29.89	45	WSW	3	bc	30.01	+ .32	51	47	+ 4	W	6	cq	8	b.bc.cq	8	51	42	-
	Ardrossan ...	29.67	47	W	5	bqp	?29.72	+ .36	51	47	+ 4	W	8	c	6	c.bqp	8	51	46	0.16
	Malin Head ...	29.69	47	W	5	qp	29.76	+ .40	49	43	+ 3	WNW	8	oq	7	r.cpq	8	52	42	0.10
	Belmullet ...	29.84	50	W	6	o	29.98	+ .39	51	48	+ 4	W	4	o	8	c.o	8	53	44	0.02
	Donaghadee ...	29.79	43	WSW	5.	b	29.80	+ .36	50	47	+ 8	W	8	b	6	b	8	53	41	0.03
	Liverpool (Bidston)	29.84	47	WSW	6	c	29.96	+ .39	55	52	+ 8	WSW	6	o	5	cp	8	55	45	0.02
	Holyhead ...	29.89	48	W	8	bcq	29.97	+ .38	53	51	+ 5	WSW	7	ogm	5	cq	8	53	44	-
	Parsonstown ...	29.42	45	W	1	b	30.05	+ .39	52	50	+ 9	W	1	o	8	b.r	3.0	53	42	0.09
	Valencia ...	30.04	51	SW	4	om	30.15	+ .36	54	52	+ 5	SW	6	oq	6	cq.om	1.2	54	46	0.02
	Roche's Point ..	30.05	48	WNW	4	b	30.16	+ .38	53	52	+ 6	W	5	p	4	b	8	53	45	0.05
	Pembroke (St. Ann's Hd.)	30.00	49	WNW	7	r	30.16	+ .46	54	52	+ 2	W	7	oq	6	b.r	5.2	54	48	-
	Scilly	30.20	52	W	6	c	30.33	+ .47	54	51	+ 2	WSW	5	o	5	bqp.c	2.6	56	48	0.01
	Prawle Point ...	30.11	48	W	5	c	30.29	+ .48	52	51	+ 5	W	6	o	5	c.p	8	?	41	0.04
	Jersey (St. Aubin's)																8			
	Hurst Castle ...	30.04	49	W	2	bcp	30.28	+ .55	53	50	+ 1	W	4	om	3	bcp	8	54	48	0.15
	Dungeness ...	29.96	47	WSW	4	b	30.17	+ .53	53	52	+ 1	WSW	6	c	5	b.bq	8	53	45	0.01
	North Foreland	29.95	45	W	3	b	30.17	+ .47	49	46	+ 4	WSW	4	o	2	b	8	51	41	0.09
	London (Brixton) ...	29.96	46	W	3	b	30.18	+ .50	51	47	+ 1	WSW	4	o	8	o.b.bq	2.5	52	42	-
	Oxford	30.06	45	WNW	2	b	30.14	+ .47	52	48	+ 3	SW	5	oq	8	bc	8	52	43	-
	Cambridge ...	29.91	46	WSW	3	b	30.07	+ .45	49	47	o	SW	5	b	8	b	4.3	53	38	-
	Yarmouth ...	29.80	45	W	4	bc	30.02	+ .42	47	45	- 1	WSW	5	c	4	cq.bc	8	50	40	0.01
Germany & Holland.	Cuxhaven ...	29.63	41	SSW	6	r	29.94	- .00	43	42	+ 6	SW	4	o	8	r	8	41	37	0.20
	Berlin	29.86	41	SSW	4	r	30.07	- .05	44	42	+ 7	W	3	b	8	r	8	45	37	0.12
	Wiesbaden ...	*	*	*	*	*	30.35	+ .19	41	40	+ 3	SW	1	c	8	*	8	45	38	0.24
	Munich	30.12	36	W	5	r	30.43	+ .17	40	39	+ 9	W	5	o	8	r	8	41	31	0.12
	The Helder ...																8			
France & Belgium.	Brussels ...	*	*	*	*	*	30.30	+ .38	42	41	- 2	SW	4	c	8	c	8	47	38	0.28
	Cape Gris Nez ...	?	51	NW	6	c	?	?	54	50	+ 5	W	6	o	6	c	8	54	46	0.20
	Paris	30.12	48	WSW	2	b	30.45	+ .37	40	39	- 1	SSW	2	m	8	b	8	53	39	0.04
	Brest	30.24	52	NW	5	c	30.43	+ .47	55	52	+ 1	WNW	4	c	5	c	8	55	46	0.08
	Lorient	30.28	53	WNW	6	c	30.49	+ .46	53	51	- 2	NW	4	r	4	c	8	57	46	0.04
	Rochefort ...	30.31	54	W	4	b	30.50	+ .31	52	50	- 2	W	2	o	8	c.b	8	57	50	-
	Belfort	30.49	42	SW	5	r	30.52	+ .26	40	40	+ 8	W	4	r	8	r	8	43	32	0.35
	Lyons	30.33	42	NNW	1	r	30.64	+ .30	42	41	+ 11	NNW	1	b	8	r	8	46	31	0.08
	Nice	30.21	48	E	2	b	30.27	+ .11	43	40	- 3	E	1	b	1	b	8	57	43	-
	Perpignan ...	30.36	50	NW	4	b	30.50	+ .19	54	48	+ 9	NW	3	b	8	b	8	60	45	-
	Biarritz ...	30.42	57	WNW	5	r	30.54	+ .26	53	50	+ 5	SSW	3	o	3	r	8	59	48	-
Peninsula.	Corunna ...																8			
	Lisbon														8		8			
	Azores (P. Delgada)	30.13	63	ESE	4	b	29.99	- .19	63	61	+ 1	ESE	4	bc	5	b	8	66	62	-

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.*

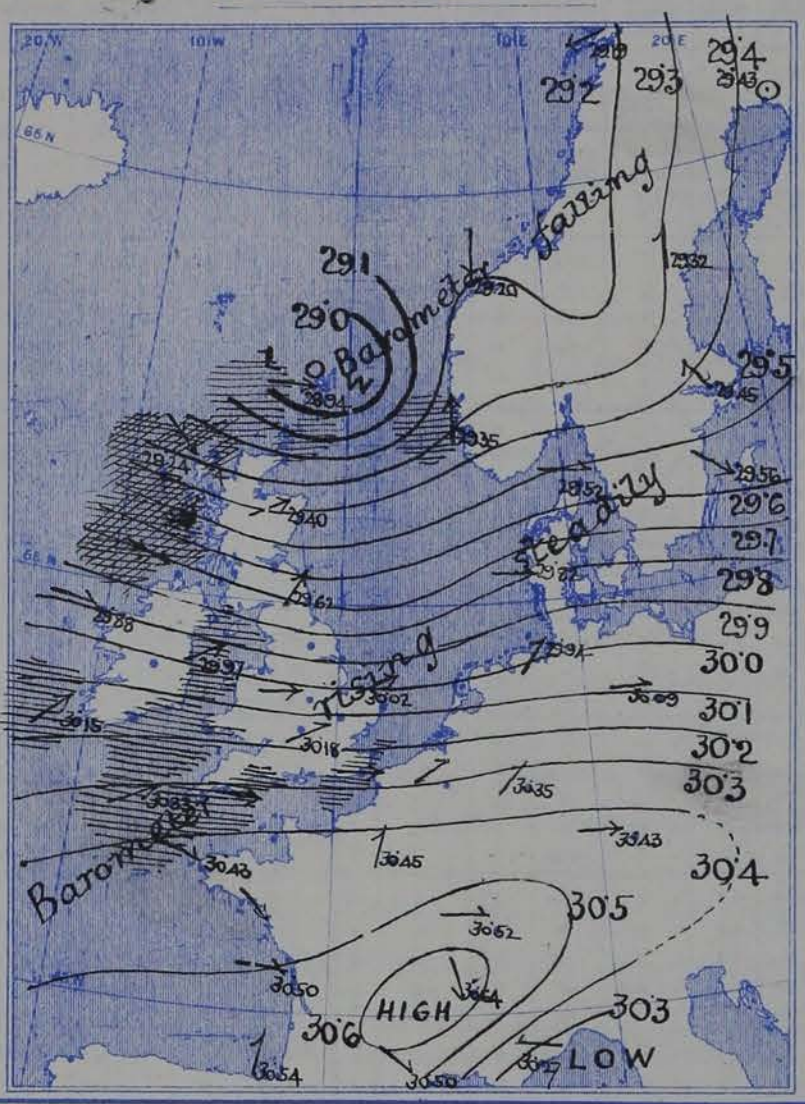
Bright Sunshine yesterday Southport 1.9 hrs;

WEATHER CHARTS

FOR Saturday, 10th December, 1898

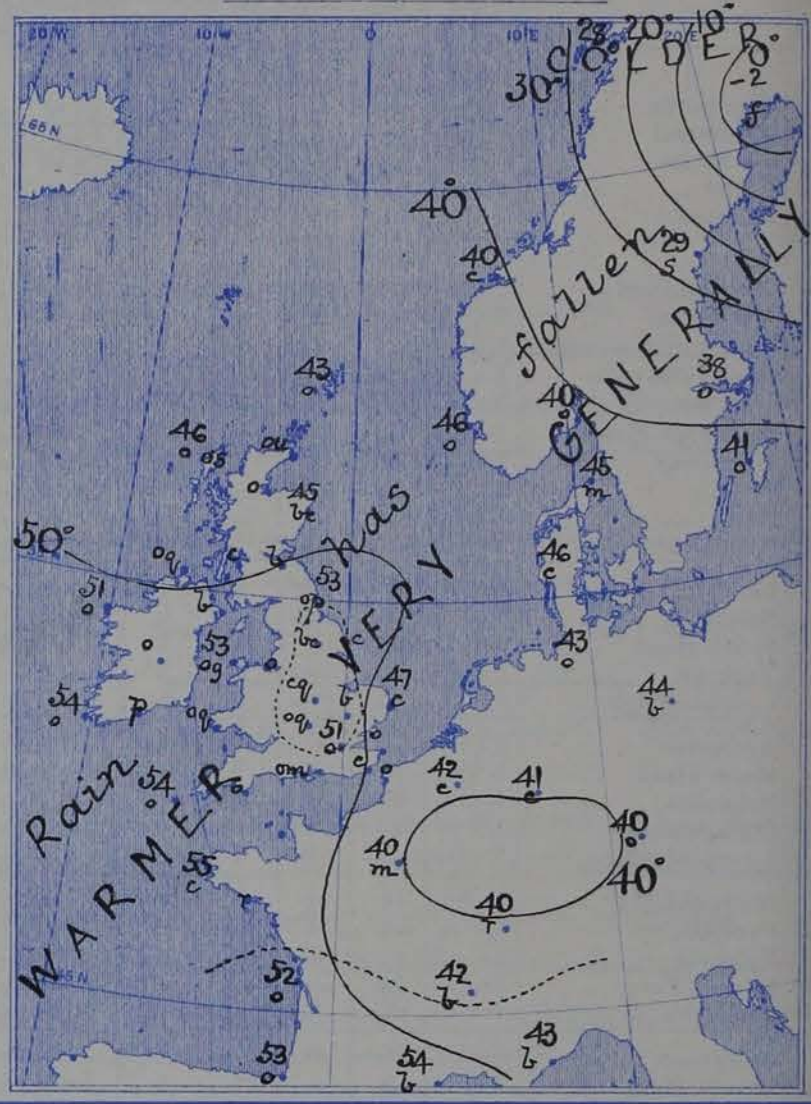
BAROMETER, WIND AND SEA.

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 DECEMBER.*

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 · 656	39 · 8	38 · 3	42 · 8	35 · 5	53	1890	19	1877	4 · 27	—	—
Stornoway	29 · 688	39 · 6	38 · 7	43 · 3	34 · 4	54	1880	15	1880	5 · 64	25 · 4	13
Wick	29 · 699	38 · 3	37 · 1	42 · 4	33 · 0	55	1889, 94	10	1882	3 · 17	—	—
Nairn	29 727	37 · 2	35 · 7	42 · 2	32 · 4	57	1888, 90, 91, 92, 94	10	1882	1 . 94	—	—
Aberdeen	29 · 758	37 · 0	35 · 3	42 · 0	32 · 8	58	1873	6	1882	3 · 11	39 · 9	20
Leith	29 · 797	38 · 7	37 · 2	44 · 1	33 · 7	58	1873, 88	6	1882	1 · 89	—	—
Shields	29 · 836	38 · 4	37 · 0	43 · 1	33 · 9	59	1873	10	1878, 79	2 · 32	—	—
Spurn Head	29 · 870	38 · 9	37 · 8	42 · 6	35 · 4	55*	1888	19*	1891	2 · 05	—	—
York	29 · 886	36 · 6	35 · 6	42 · 5	32 · 4	59	1888, 91	0	1879	2 · 21	26 · 5	12
Loughborough	29 · 922	36 · 4	35 · 4	43 · 0	32 · 3	59*	1888	7*	1890	2 · 24	—	—
Ardrossan	29 · 809	40 · 3	39 · 1	44 · 7	36 · 2	55	1880	15	1879	3 · 66	—	—
Malin Head	29 · 768	41 · 3	39 · 6	45 · 2	38 · 1	—	—	—	—	—	—	—
Belmullet	29 · 822	42 8	40 · 9	46 · 9	39 · 0	—	—	—	—	5 · 36	—	—
Donaghadee	29 · 840	40 · 4	39 · 5	45 · 8	36 · 3	56	1885, 88, 94	20	1879	2 · 85	—	—
Holyhead	29 · 876	42 · 8	41 · 2	46 · 5	39 · 2	56	1872, 88	25	1874	3 · 83	—	—
Liverpool	29 · 891	39 · 0	37 · 3	43 · 8	35 · 7	59	1891	13	1878	2 · 62	—	—
Parsonstown	29 · 891	38 · 3	37 · 0	45 · 1	33 · 5	58	1877	8	1878	3 · 09	45 · 0	20
Valencia	29 · 900	45 · 0	42 · 9	49 · 9	40 · 4	57	1884, 88	24	1886	5 · 93	43 · 9	19
Roche's Point	29 · 908	43 · 5	42 · 1	48 · 2	39 · 4	58	1873	25	1882	5 · 16	—	—
Pembroke	29 · 914	43 · 9	42 · 6	47 · 0	40 · 5	55	1876	19	1890	3 · 96	46 · 0	20
Scilly	29 · 950	47 · 4	45 · 5	49 · 8	43 · 6	57	1876	30	1890	4 · 00	—	—
Prawle Point	29 · 970	42 · 8	41 · 4	47 · 3	38 · 5	55*	1881, 88	25*	1885, 87, 90	3 · 77	—	—
Jersey	29 · 993	43 · 5	41 · 7	47 · 7	39 · 7	61	1876	19	1871	3 · 76	62 · 6	25
Hurst Castle	29 · 962	40 · 9	40 · 1	45 · 9	36 · 7	58	1876	19	1890	2 · 77	—	—
Dover	29 · 954	40 · 0	38 · 9	44 · 7	35 · 9	56	1880	12	1890	2 · 79	—	—
LONDON	29 · 956	38 · 0	36 · 8	44 · 3	34 · 0	58	1873, 88, 91	11	1878	2 · 11	11 · 8†	5†
Oxford	29 · 956	37 · 1	36 · 0	43 · 2	33 · 6	58	1888	6	1878	2 · 10	41 · 8	18
Cambridge	29 · 941	36 · 4	35 · 6	43 · 2	31 · 6	59	1878, 88	0	1879	1 · 82	41 2	18
Yarmouth	29 · 915	38 · 1	37 · 1	42 · 2	33 · 8	56	1873	15	1879	2 · 53	—	—

* 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, 30·64 ins: at Lyons; 30·3 ins: and upwards in an anticyclone lying over the whole of France and Germany, and extending northwards over the western part of the Channel
Lowest, 29·0 ins: and less, in a deep depression with its centre a little to the northward of the Shetlands.
Gradients steep over the northern parts of our Islands and the North Sea, but moderate or slight elsewhere
Barometer rising generally but falling in the Shetlands and also in the northern parts of Scandinavia.

TEMPERATURE

Highest, 55° at Liverpool and Brest, 54° at Valencia (Ireland), Pembroke, Scilly, and Perpignan, and 53° at several of the English and South stations.
Lowest, −2° F. at Haparanda, +28° at Bodø, 29° at Hernösand, and 35° at Jaeder; lowest in our Islands 43° at Leemburgh Head.
During yesterday the thermometer rose to 50° and upwards in all but the extreme northern parts of the United Kingdom, and to 56° at Scilly

WIND

W. (SW. to NW.) over northwestern Europe generally and strong in force in most parts of our Islands, with a gale in the north.
Variable over the northern parts of Scandinavia, and also in the south of France.

WEATHER

Cloudy or dull over Western Europe generally, with showers in isolated parts of our Islands, steady rain at Lorient and Brest, and snow at Hernösand.
Fine in the east of Scotland and also in the south of France
Rain fell yesterday in all parts of our Islands excepting the eastern and central parts of England, but the amounts were mostly slight.

SEA

Very high at Ronaway, and rough or rather so on all but our east coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression noticed yesterday off the north of Scotland has moved away to the northeastward, but in the course of the night a new disturbance has appeared near the Shetlands. This is also likely to travel northeastwards; the anticyclone in the south is inclined to spread northwards.

FORECASTS

For the 24 hours ending at NOON on 11TH DECR. 1898

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
▼ 0 SCOTLAND NORTH	W. gales, moderating and backing later; changeable, some showers.	▼ 6 SCOTLAND WEST	Same as Nos 0 and 1
▼ 1 SCOTLAND EAST		▼ 7 ENGLAND N.W.	W. and SW. winds, a gale in places; squally, some showers.
▼ 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	W. and SW. winds, strong in places; fair generally, but local showers.	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 ...	29.30	42	41	SSE.	4	r	7
Sumburgh Head	29.05	44	43	WSW	3	o	5
Stornoway	29.27	45	43	NW	4	c	4
Aberdeen	29.29	46	41	SW	4	bc q	4
Shields	29.49	48	44	SW	5	b	2
Ardrossan	29.50	47	46	W	6	c	4
Malin Head ...	29.53	47	45	NW	6	r	6
Belmullet	29.77	48	44	WNW	6	c	*
Holyhead	29.75	48	44	W	8	cq	6
Valencia	29.97	51	47	W	6	c q	6
Scilly	30.04	51	48	W	7	bc p	5
Jersey							
Hurst Castle ...	29.88	48	47	WNW	3	bc	3
Dungeness ...	29.79	52	50	W	6	b	5
North Foreland	29.77	51	47	W	4	b	3
London (Westminster)	29.74	53	48	W	3	c	*
Yarmouth ...	29.66	49	47	W	4	c q	4
Rochefort ...	30.20	56	55	WNW	5	c	*

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

Weather in morning rainy on the east and southeast coasts of England, and showery in many other parts of our Islands but fine in the east of Scotland. Fine over southern Europe generally and also in Sweden: cloudy or dull in most other parts of the Continent with rain in the north of France and at Moscow and snow at Kuopio. Rain falling later over the whole of Ireland and Scotland and also in the south of England and in the western and northern parts of the Continent generally.

Temperature rises in our Islands and the north of France, as well as in Austria and the south of Russia, but falls elsewhere. Morning readings highest 61° at Malta, 59° at Patras, and 57° at Algiers and Oran; above 50° on the south coast of England. Lowest (1) 21° at Haparanda and Hernösand, and 23° at Ulleaborg and Kuopio; (2) 31° at Munich, Lyons, and Hermanstadt, and 32° at Belfort. Rising during day to 50° and upwards in all but the extreme northern parts of our Islands, and to 56° at Scilly; exceeding 65° also in the west and south of France and reaching 60° at Perpignan.

Wind strong from the W.ward over the western parts of our Islands and France, but light to moderate from the SW. in the eastern parts of Great Britain and from the S.ward over Central France, the Netherlands, Denmark, and Western Europe; SE. in Norway, with a gale at Skudesnaes. Moderate to strong from the N.ward or NW.ward over Sweden, Finland, and the Baltic Provinces. W. or SW. over Eastern Germany, Austria and the central and southern parts of Russia. Variable in the south of France, chiefly N. over Italy and the Spanish Peninsula. Subsequently veering to the W.ward over the East of our Islands, the Netherlands and the northeast of France.

Barometer highest 30·4 in. and upwards over the western and central parts of the Spanish Peninsula; 30·1 in. and upwards in an anticyclone embracing the whole of central and southern Europe. Lowest 28·8 in. and less, in a depression with its centre over the White Sea; 29·1 in. and less, in another depression off the north of Scotland. Latter disturbance subsequently moving northeastward but new depression appearing near the Shetlands 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.

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 11th December, 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 ...	29.39	14	N	2	c	29.59	+ .16	15	14	+ 17	N	4	o	5	c	*	16	−4	0.12
	Hernösand ...	29.30	26	Z	o	o	29.68	+ .36	23	22	− 6	Z	o	bc	*	o	*	30	16	—
	Stockholm ...	29.12	37	Z	o	r	29.66	+ .21	29	28	− 9	WNW	2	o	*	r	*	41	?	0.04
	Wisby	29.17	43	WSW	8	r	29.68	+ .12	36	35	− 5	NNW	8	o	*	r	*	43	34	0.47
	Karlstad ...	29.22	35	NW	4	r	29.78	+ .40	31	30	− 4	W	2	b	*	r	*	*	*	0.20
	Bodö	29.32	31	ENE	4	o	29.54	+ .35	28	25	0	ENE	4	S	1	o	*	31	25	—
	Christiansund ...	29.21	39	WSW	2	o	29.76	+ .66	41	39	+ 1	WSW	3	o	?	o	*	41	?	0.12
	Skudesnaes ...	29.47	46	WNW	9	c	30.01	+ .66	45	42	− 1	Z	o	o	4	rc	*	46	43	*
	Færder (Christiania Fjord)	29.24	36	NNW	2	f	29.80	+ .41	39	38	− 1	SW	1	bc	5	f	*	43	36	0.28
	Skagen (The Scaw)	29.34	42	NNW	9	m	29.90	+ .38	42	?	− 3	NNW	7	m	2	m	*	48	43	0.32
	Fanö	29.59	48	WNW	9	b	30.15	+ .33	47	45	+ 1	WNW	4	o	*	b	*	50	46	0.08
	Sumburgh Head	29.54	44	WNW	9	o	29.81	+ .87	43	43	0	S	3	r	4	p.o	*	46	41	0.19
	Stornoway ...	29.84	44	NW	2	bc	29.86	+ .62	52	51	+ 6	WNW	6	c	6	c.bc	0.7	52	40	0.35
	Wick	29.78	43	NW	7	o	29.89	+ .71	51	49	+ 7	SW	3	c	3	ors	*	51	40	0.18
	Nairn	29.90	45	W	3	b	29.90	+ .58	52	50	+ 4	W	2	bc	1	b	*	55	42	0.05
	Aberdeen ...	29.90	43	W	5	bq	30.00	+ .60	50	47	+ 5	SW	2	cq	2	p.bcq.bq	4.0	50	40	0.03
British Islands.	Leith	29.97	45	W	4	b	30.10	+ .51	54	51	+ 5	WSW	4	o	*	b	*	54	44	—
	Shields	30.05	48	WSW	4	b	30.21	+ .59	54	50	+ 1	SW	3	c	2	b	*	54	46	—
	Spurn Head ...	30.15	48	SSW	4	b	30.30	+ .45	50	48	− 1	SW	4	bc	4	b	*	54	47	—
	York	30.14	50	WNW	3	bc	30.32	+ .47	50	47	− 3	WSW	1	c	*	bc	0.0	55	48	0.02
	Loughborough ...	30.24	52	WSW	3	c	30.39	+ .38	52	49	+ 1	WSW	2	o	*	cq.o	*	56	51	—
	Ardrossan ...	30.05	49	W	4	o	30.17	+ .45	53	53	+ 2	SSW	3	o	3	o	*	53	47	0.01
	Malin Head ...	30.05	48	SW	3	om	30.13	+ .37	53	51	+ 4	SSW	4	omq	4	c.om	*	53	43	0.02
	Belmullet ...	30.11	52	WSW	6	o	30.18	+ .20	53	51	+ 2	WSW	6	o	*	o	*	53	49	0.03
	Donaghadee ...	30.16	49	SW	3	o	30.21	+ .41	52	51	+ 2	W	6	c	4	o	*	52	47	0.01
	Liverpool (Bidston)	30.19	52	W	6	b	30.35	+ .39	52	50	− 3	SW	4	o	4	p.b	*	56	49	0.04
	Holyhead ...	30.22	53	WSW	4	ogm	30.33	+ .36	53	51	0	WSW	5	cm	4	epm.ogm	*	54	50	0.03
	Parsonstown ...	30.21	53	W	1	o	30.33	+ .28	51	49	− 1	S	1	o	*	o	0.0	54	49	0.01
	Valencia ...	30.28	54	SSW	3	o	30.34	+ .19	54	52	0	S	4	o	4	c.o	0.6	55	52	—
	Roche's Point ..	30.33	54	W	4	d	30.42	+ .26	53	52	0	WSW	4	o	4	d	*	55	51	0.02
	Pembroke (St. Ann's Hd.)	30.31	53	W	7	o	30.44	+ .28	54	53	0	WSW	5	oq	5	o	0.0	54	52	—
	Scilly	30.42	54	WSW	4	m	30.52	+ .19	53	52	− 1	SSW	4	omp	5	bc.m	3.5	56	50	—
	Prawle Point ...	30.42	53	WSW	5	o	30.55	+ .26	52	52	0	WSW	3	o	3	o	*	?	50	0.01
	Jersey (St. Aubin's)																*			
	Hurst Castle ...	30.40	54	WSW	4	o	30.52	+ .24	53	52	0	WSW	3	om	2	o	*	55	52	—
	Dungeness ...	30.35	53	WSW	4	o	30.51	+ .34	53	53	0	WSW	3	o	3	o	*	55	51	—
	North Foreland	30.33	53	SW	4	c	30.50	+ .33	52	50	+ 3	WSW	3	o	2	c	*	54	49	—
	London (Brixton) ...	30.34	53	SW	2	od	30.50	+ .32	52	51	+ 1	SW	2	o	*	c.o.d	0.0	55	51	—
	Oxford	30.40	53	WSW	3	o	30.48	+ .34	52	50	0	SSW	2	o	*	oq	*	54	51	—
	Cambridge ...	30.30	51	SW	2	b	30.46	+ .39	52	51	+ 3	SW	3	o	*	b	0.0	55	48	—
	Yarmouth ...	30.17	51	WSW	4	bcw	30.38	+ .36	50	49	+ 3	WSW	3	c	4	c.bcw	*	54	45	—
Germany & Holland.	Cuxhaven ...	29.91	49	W	7	b	30.26	+ .32	46	45	+ 3	W	3	c	*	b	*	49	43	0.04
	Berlin	29.97	49	W	6	r	30.21	+ .14	44	42	0	WNW	5	o	*	r	*	50	44	0.04
	Wiesbaden ...	*	*	*	*	*									*	*	*			
	Munich	30.54	42	W	5	c	30.61	+ .18	43	40	+ 3	SW	6	o	*	c	*	45	39	0.04
	The Helder ...	30.17	51	WNW	4	b	30.34		51	50		WSW	3	o	4	b	*	52	48	—
Belgium.	Brussels ...	*	*	*	*	*	30.54	+ .24	50	49	+ 8	SW	2	o	*	o	*	51	42	—
	Cape Gris Nez ...	?	54	W	7	o	?	?	55	53	+ 1	WNW	4	o	4	o	*	55	48	—
	Paris	30.55	50	SSW	2	o	30.63	+ .18	47	46	+ 7	SW	2	o	*	o	*	52	40	—
	Brest	30.57	55	WNW	3	b	30.59	+ .16	54	53	− 1	S	2	c	3	b	*	59	50	—
	Lorient	30.57	55	W	4	c	30.62	+ .13	50	49	− 3	S	3	c	5	c	*	57	50	0.04
France &	Rochefort ...	30.59	54	W	2	o	30.60	+ .10	48	46	− 4	E	2	c	*	o	*	58	45	—
	Belfort	30.60	43	SW	6	o	30.65	+ .13	42	41	+ 2	W	2	o	*	o	*	46	40	0.04
	Lyons	30.69	45	Z	o	o	30.72	+ .08	45	43	+ 3	N	1	o	*	o	*	49	41	—
	Nice	30.43	48	E	2	b	30.45	+ .18	46	37	+ 3	E	2	c	2	b	*	59	43	—
	Perpignan ...	30.56	55	NW	4	b	30.58	+ .08	48	43	− 6	SSW	2	b	*	b	*	60	43	—
	Biarritz ...	30.60	54	NE	2	b	30.57	+ .03	41	39	− 12	E	4	b	3	b	*	59	39	—
Peninsula.	Corunna ...																*			
	Lisbon	30.52	51	NNE	3	b	30.53	.00	46	44	+ 1	NNE	4	b	*	b	*	59	45	—
	Azores (P. Delgada)	29.94	63	SSW	3	c	30.06	+ .07	63	62	0	SW	4	c	4	c	*	66	61	0.08

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 2.2 hrs;

WEATHER CHARTS

FOR Sunday, 11th December, 1898

BAROMETER, WIND AND SEA.

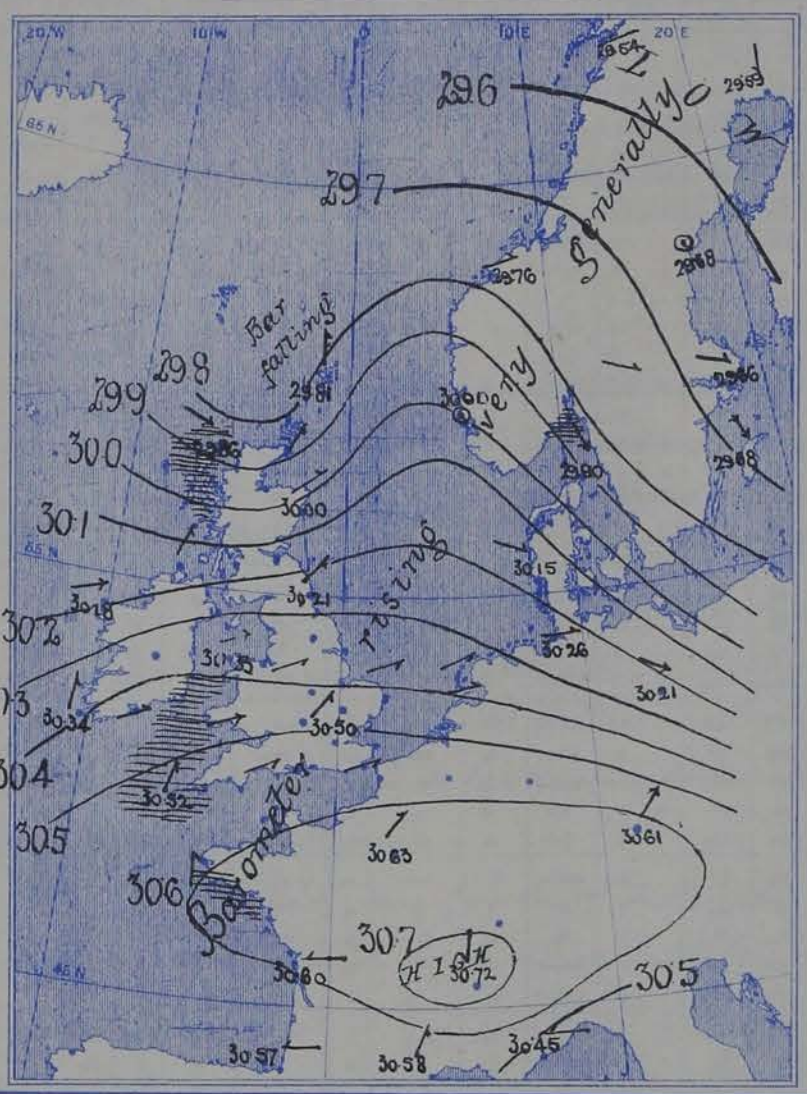
BAROMETER—Isobars are drawn for each tenth of an inch.

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

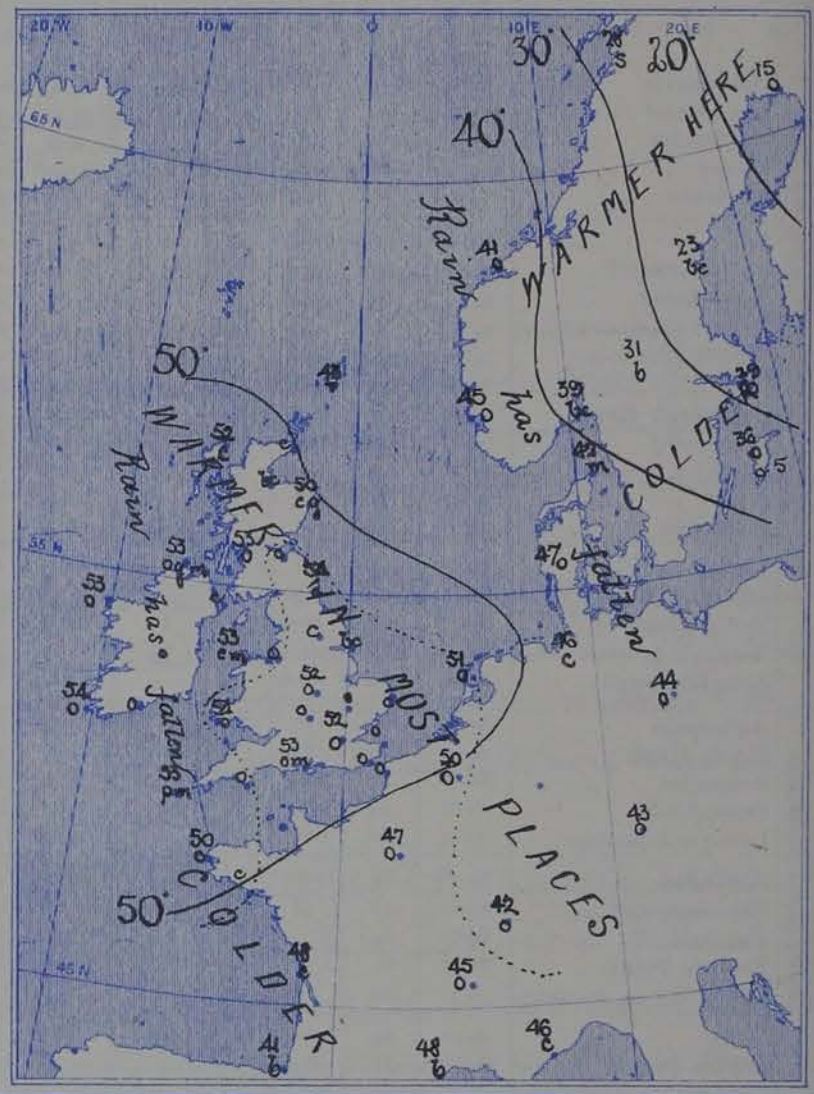


TEMPERATURE & WEATHER.

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 DECEMBER.

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 · 656	39 · 8	38 · 3	42 · 8	35 · 5	53	1890	19	1877	4 · 27	—	—
Stornoway	29 · 688	39 · 6	38 · 7	43 · 3	34 · 4	54	1880	15	1880	5 · 64	25 · 4	13
Wick	29 · 699	38 · 3	37 · 1	42 · 4	33 · 0	55	1889, 94	10	1882	3 · 17	—	—
Nairn	29 · 727	37 · 2	35 · 7	42 · 2	32 · 4	57	1888, 90, 91, 92, 94	10	1882	1 . 94	—	—
Aberdeen	29 · 758	37 · 0	35 · 3	42 · 0	32 · 8	58	1873	6	1882	3 · 11	39 · 9	20
Leith	29 · 797	38 · 7	37 · 2	44 · 1	33 · 7	58	1873, 88	6	1882	1 · 89	—	—
Shields	29 · 836	38 · 4	37 · 0	43 · 1	33 · 9	59	1873	10	1878, 79	2 · 32	—	—
Spurn Head	29 · 870	38 · 9	37 · 8	42 · 6	35 · 4	55*	1888	19*	1891	2 · 05	—	—
York	29 · 886	36 · 6	35 · 6	42 · 5	32 · 4	59	1888, 91	0	1879	2 · 21	26 · 5	12
Loughborough	29 · 922	36 · 4	35 · 4	43 · 0	32 · 3	59*	1888	7*	1890	2 · 24	—	—
Ardrossan	29 · 809	40 · 3	39 · 1	44 · 7	36 · 2	55	1880	15	1879	3 · 66	—	—
Malin Head	29 · 768	41 · 3	39 · 6	45 · 2	38 · 1	—	—	—	—	—	—	—
Belmullet	29 · 822	42 8	40 · 9	46 · 9	39 · 0	—	—	—	—	5 · 36	—	—
Donaghadee	29 · 840	40 · 4	39 · 5	45 · 8	36 · 3	56	1885, 88, 94	20	1879	2 · 85	—	—
Holyhead	29 · 876	42 · 8	41 · 2	46 · 5	39 · 2	56	1872, 88	25	1874	3 · 83	—	—
Liverpool	29 · 891	39 · 0	37 · 3	43 · 8	35 · 7	59	1891	13	1878	2 · 62	—	—
Parsonstown	29 · 891	38 · 3	37 · 0	45 · 1	33 · 5	58	1877	8	1878	3 · 09	45 · 0	20
Valencia	29 · 900	45 · 0	42 · 9	49 · 9	40 · 4	57	1884, 88	24	1886	5 · 93	43 · 9	19
Roche's Point	29 · 908	43 · 5	42 · 1	48 · 2	39 · 4	58	1873	25	1882	5 · 16	—	—
Pembroke	29 · 914	43 · 9	42 6	47 · 0	40 · 5	55	1876	19	1890	3 · 96	46 · 0	20
Scilly	29 · 950	47 · 4	45 · 5	49 · 8	43 · 6	57	1876	30	1890	4 · 00	—	—
Prawle Point	29 · 970	42 · 8	41 · 4	47 · 3	38 · 5	55*	1881, 88	25*	1885, 87, 90	3 · 77	—	—
Jersey	29 · 993	43 · 5	41 · 7	47 · 7	39 · 7	61	1878	19	1871	3 · 76	62 · 6	25
Hurst Castle	29 · 962	40 · 9	40 · 1	45 · 9	36 · 7	58	1876	19	1890	2 · 77	—	—
Dover	29 · 954	40 · 0	38 · 9	44 · 7	35 · 9	56	1880	12	1890	2 · 79	—	—
LONDON	29 · 956	38 · 0	36 · 8	44 · 3	34 · 0	58	1873, 88, 91	11	1878	2 · 11	11 · 8†	5†
Oxford	29 · 956	37 · 1	36 · 0	43 · 2	33 · 6	58	1888	6	1878	2 · 10	41 · 8	18
Cambridge	29 · 941	36 · 4	35 · 6	43 · 2	31 · 6	59	1878, 88	0	1879	1 · 82	41 · 2	18
Yarmouth	29 · 915	38 · 1	37 · 1	42 · 2	33 · 8	56	1873	15	1879	2 · 53	—	—

* 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, 30·72 in. at Lyons; 30·2 in. and upwards in an anticyclone embracing all the more southern parts of our area
Lowest, 29·6 in. and less, over the northern parts of Scandinavia; 29·8 in. and less in a depression lying off the north of Scotland.
Gradients moderate over northwestern Europe generally, but slight over France and also over the northern parts of Scandinavia.
Barometer rising generally, but very slightly on our extreme western coasts.

TEMPERATURE

Highest, 54° at Leith, Shields, Valencia (Ireland) and Pembroke; above 50° in most parts of the United Kingdom.
Lowest, 15° at Haparanda, 23° at Hernösand, 28° at Bodö, 29° at Stockholm, and 31° at Karlstad.
During the day the thermometer rose to between 50° and 55° in all parts of our Islands, and to 56° at Loughborough, Liverpool and Scilly.

WIND

Light to fresh from between S. and W. over our Islands and the neighbouring parts of the Continent.
N. or NW. over Sweden, Denmark, and North Germany, with a gale at Visby.
Light from the E. in the southern parts of France.

WEATHER

Cloudy or dull in most places, with rain at Lerwick Head and snow at Bodö.
Fine in the extreme south of France and also at some of the Swedish stations.
A little rain fell yesterday in the west and the extreme north of our Islands, and larger quantities in several parts of Scandinavia and Denmark.

SEA

Rough at Stornoway and rather rough at Pembroke and Scilly, as well as at Yarmouth, moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 12th Dec. 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	NONE ISSUED.
5 ENGLAND SOUTH		WARNINGS	

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29·16	46	45	WSW	9	r	7
Sumburgh Head	29·17	45	43	WNW	8	p	7
Stornoway	29·71	45	44	NW	6	c	6
Aberdeen	29·70	48	41	W	7	bcq	4
Shields	29·88	50	45	WSW	6	b	2
Ardrossan	29·96	50	47	W	5	c	4
Malin Head ...	29·96	49	45	WNW	6	c	6
Belmullet	30·08	52	50	WSW	1	o	*
Holyhead	30·16	53	51	WSW	4	cmp	3

	BAR.	THER. Dry.	THER. Wet.	WIND: Direc.	F.	WEA.	SEA.
Valencia	30·22	55	53	WSW	4	c	5
Scilly	30·38	55	53	WSW	5	bc	5
Jersey							
Hurst Castle ...	30·31	54	51	WSW	5	ow	3
Dungeness ...	30·25	54	53	WSW	5	o	5
North Foreland	30·24	53	49	WSW	4	o	3
London (Westminster)	30·23	56	51	WSW	4	og	*
Yarmouth ...	30·06	54	51	WSW	5	c	4
Rochefort ...	30·54	58	54	WSW	3	bc	*

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

Weather in morning cloudy or dull over the western, northern, and central countries generally, with showers in isolated parts of our Islands, steady rain at Lorient, Belfort, and Memel, and snow at Hernösand. Fine in the east of Scotland and also over the greater part of southern Europe, but dull over the Adriatic and southern Italy. Sky clearing later in the north and east of England, but rain falling in the north and west of Scotland, as well as in many parts of Scandinavia, Denmark and Germany.

Temperature risen in our Islands and the northern and central parts of the Continent, but fallen elsewhere. Morning readings 61° at Malta, 60° at La Calle and Sanguinaire; above 50° in the west of France and also over the greater part of Ireland and England. Lowest −2° F. at Haparanda, +22° at Archangel, 24° at Kuopio, and 25° at Uleaborg and Moscow. Rising during day to between 50° and 55° in nearly all parts of our Islands, and to 56° at Loughborough, Liverpool, and Scilly. Exceeding 55° also in the west and south of France, and reaching 60° at Perpignan.

Wind W^{ly} or SW^{ly} over our Islands, the Netherlands, Denmark, Germany, and the Baltic; strong in force in many places, with a gale on our own extreme northwest coasts. S^{ly} over Sweden, Finland, and the Baltic Provinces. N^{ly} or NW^{ly} over Italy and the south of France. NE^{ly} over the Spanish Peninsula. Subsequently increasing to a strong gale from the Wrd or NW^{wd} in the extreme north of Scotland, and also in the south of Norway, but moderating on our western coasts.

Barometer highest 30·6 ins: and upwards over Central France; 30·1 ins: and upwards in an anticyclone embracing the Entire southern half of Europe. Lowest 29·0 ins: and less, in a depression lying near the Shetlands; 29·2 ins: and less, in another disturbance over the northern parts of Norway; 29·3 ins: and less, in a third system over the extreme north of Russia. Depression off the north of Scotland subsequently moving away quickly to the eastward, and barometer rising fast on our own northern 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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DAILY WEATHER REPORT

for 8 a.m. on Monday, 12th December, 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 ...	29.93	5	NE	0	0	29.56	-.03	7	6	-8	ESE	2	0	*	0	*	19	1	-
	Hernösand ...	29.93	12	NE	0	0	29.62	-.06	33	33	+10	SE	4	S	*	0	*	33	10	0.08
	Stockholm ...	30.03	30	NE	0	b	29.75	+.09	34	33	+5	S	2	r	*	b	*	37	27	0.08
	Wisby	30.06	37	NW	6	b	29.86	+.18	39	38	+3	SW	4	r	*	b	*	41	34	0.08
	Karlstad ...	30.03	30	W	1	0	29.69	-.09	39	38	+8	SSW	2	c	*	0,r	*	*	*	0.20
	Bodö	29.69	38	SW	6	0	29.35	-.19	25	24	-3	E	5	0	2	0	*	37	25	-
	Christiansund ...	29.75	41	ENE	5	r	29.53	-.23	44	42	+3	W	8	r	6	r	*	45	37	0.35
	Skudesnaes ...	29.98	48	SSE	4	r	29.84	-.16	49	48	+4	WSW	4	r	4	r	*	49	43	*
	Færder (Christiania Fjord)	30.01	42	NE	0	0	29.69	-.11	47	45	+8	WSW	6	c	4	0	*	47	39	-
	Skagen (The Scaw)	30.07	45	WSW	2	m	29.88	-.02	48	48	+6	W	6	m	2	m	*	48	?	-
	Fanö	30.23	48	WNW	4	0	30.14	-.01	47	47	0	W	4	bc	*	0	*	48	46	0.04
	Sumburgh Head	29.71	50	WSW	5	r	29.51	-.30	49	49	+6	WSW	4	r	6	r	*	52	43	0.33
	Stornoway ...	29.82	55	WSW	8	0	29.53	-.33	52	51	0	W	4	r	4	0,r	0.0	55	49	0.80
	Wick	29.86	54	SW	5	0	29.62	-.27	48	48	-3	SW	4	r	5	0	*	56	48	0.08
	Nairn	29.94	55	W	3	bc	29.61	-.29	53	50	+1	WSW	4	r	3	bc	*	55	49	0.02
	Aberdeen ...	30.02	53	W	2	0q	29.69	-.21	51	47	+1	SW	8	cqu	4	0q	0.0	57	49	-
British Islands.	Leith	30.14	50	WSW	3	c	29.80	-.30	52	50	-2	SW	4	0d	*	c	*	56	50	-
	Shields	30.24	53	SW	3	c	29.95	-.26	52	49	-2	SW	6	0	2	c	*	56	50	-
	Spurn Head ...	30.35	49	SW	4	b	30.10	-.20	49	47	-1	SW	4	c	3	b	*	52	48	-
	York	30.34	52	W	1	0	30.08	-.24	52	48	+2	SSW	4	c	*	0	0.0	55	48	-
	Loughborough ...	30.43	53	WSW	3	0	30.22	-.17	51	48	-1	SW	3	0	*	0,c,0	*	57	49	-
	Ardrossan ...	30.19	51	S	4	0	29.85	-.32	50	50	-3	S	6	0m	5	0	*	53	49	0.05
	Malin Head ...	30.07	52	SW	6	bcm	29.74	-.39	52	51	-1	S	5	rm	3	c,bem	*	53	50	0.01
	Belmullet ...	30.17	54	SW	6	0	29.90	-.28	53	53	0	WSW	7	0	*	0	*	54	50	0.10
	Donaghadee ...	30.21	53	W	5	b	29.92	-.29	52	51	0	SSW	6	0	4	b	*	55	46	-
	Liverpool (Bidston)	30.37	52	SW	3	c	30.10	-.15	52	49	0	SW	6	0	4	0	*	56	50	-
	Holyhead ...	30.37	53	SW	6	bu	30.10	-.23	52	51	-1	SW	8	rq	6	0	*	54	50	0.04
	Parsonstown ...	30.31	53	NE	0	0	30.03	-.30	55	52	+4	W	1	0d	*	c,0	1.0	55	50	-
	Valencia ...	30.32	52	S	4	0dm	30.10	-.24	51	51	0	SSW	4	rm	4	0md	0.0	54	51	0.06
	Roche's Point ..	30.40	51	SW	5	d	30.15	-.27	54	54	+1	WSW	5	rq	4	d	*	54	50	0.10
	Pembroke (St. Ann's Hd.)	30.44	53	SW	6	0	30.20	-.24	53	52	-1	SW	7	rq	6	0	0.0	54	51	0.02
	Scilly	30.47	52	S	4	0	30.31	-.21	54	52	+1	SSW	4	0	5	0	0.6	55	50	-
	Prawle Point ...	30.55	50	WSW	4	0	30.37	-.18	51	50	-1	WSW	4	0q	3	0	*	?	48	0.01
	Jersey (St. Aubin's)																*			
	Hurst Castle ...	30.53	52	WSW	3	0p	30.37	-.15	53	50	0	SW	5	0qm	3	0p	*	54	52	-
	Dungeness ...	30.52	53	WSW	3	0	30.36	-.15	52	50	-1	WSW	5	dm	4	d	*	54	51	-
	North Foreland	30.53	52	SW	3	b	30.37	-.13	50	47	-2	SW	4	0	2	c,b	*	55	50	0.01
	London (Brixton) ...	30.50	52	SW	2	0	30.32	-.18	51	49	-1	SW	4	0	*	0,c,0d	0.0	55	50	-
	Oxford	30.50	51	SW	2	0	30.30	-.18	52	49	0	SW	3	0q	*	0,0d	*	54	49	-
	Cambridge ...	30.48	51	SW	3	0	30.26	-.20	51	48	-1	SW	4	0	*	c,0	1.5	58	49	-
	Yarmouth ...	30.40	51	SW	2	bc	30.22	-.16	50	48	0	SW	5	c	4	bc	*	53	48	-
Germany & Holland.	Cuxhaven ...	30.30	48	W	5	c	30.25	-.01	46	45	0	SW	3	c	*	c	*	48	45	-
	Berlin	30.32	50	WNW	4	r	30.30	+.09	50	48	+6	W	4	0	*	r	*	50	44	0.04
	Wiesbaden ...	*	*	*	*	*	30.51		47	46		SW	1	0	*	*	*	54	45	-
	Munich... ..	30.64	42	W	4	r	30.60	-.01	39	37	-4	SW	3	c	*	r	*	46	37	0.04
	The Helder ...																*			
Belgium.	Brussels ...	*	*	*	*	*	30.47	-.07	48	47	-2	SW	4	0	*	0	*	53	47	-
	Cape Gris Nez...	?	55	W	3	0	?	?	51	48	-4	WSW	6	0	6	0	*	57	48	-
	Paris	30.65	50	SW	1	0	30.55	-.08	42	42	-5	S	2	0	*	0	*	53	42	-
	Brest																*			
	Lorient... ...	30.61	51	SE	3	c	30.49	-.13	52	50	+2	SSW	4	0	3	c	*	57	50	-
France &	Rochefort ...	30.58	48	E	2	b	30.51	-.09	39	38	-9	E	2	b	*	b	*	57	37	-
	Belfort	30.65	46	W	2	0	30.57	-.08	38	36	-4	NE	0	c	*	0	*	45	35	-
	Lyons	30.67	43	NW	1	b	30.63	-.09	34	34	-11	E	1	bf	*	b	*	52	28	-
	Nice	30.45	50	NW	2	b	30.43	-.02	50	44	+4	NE	0	b	0	b	*	59	45	-
	Perpignan ...	30.46	63	NW	2	b	30.49	-.09	36	36	-12	SW	1	b	*	b	*	69	35	-
	Biarritz ...	30.55	51	ENE	3	b	30.52	-.03	46	43	+5	SE	3	b	3	b	*	57	41	-
Peninsula.	Corunna ...																*			
	Lisbon	30.56	53	NNE	4	b	30.58	+.05	48	44	+2	NE	4	b	*	b	*	59	46	-
	Azores (P. Delgada)	30.25	63	SSE	3	bc	30.36	+.30	62	61	-1	S	2	0	3	bc	*	68	62	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 1.0 hrs;

WEATHER CHARTS

FOR Monday, 12th December, 1898

BAROMETER, WIND AND SEA.

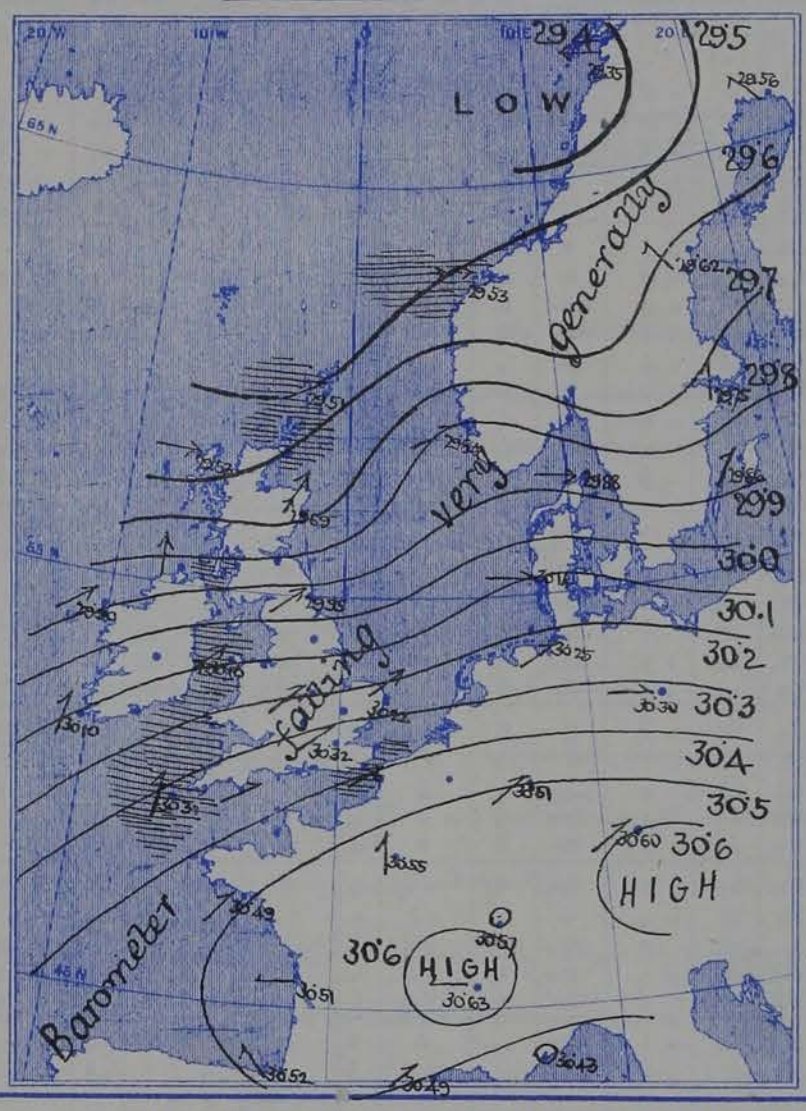
BAROMETER—Isobars are drawn for each tenth of an inch.

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 DECEMBER.*

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 · 656	39 · 8	38 · 3	42 · 8	35 · 5	53	1890	19	1877	4 · 27	—	—
Stornoway	29 · 688	39 · 6	38 · 7	43 · 3	34 · 4	54	1880	15	1880	5 · 64	25 · 4	13
Wick	29 · 699	38 · 3	37 · 1	42 · 4	33 · 0	55	1889, 94	10	1882	3 · 17	—	—
Nairn	29 · 727	37 · 2	35 · 7	42 · 2	32 · 4	57	1888, 90, 91, 92, 94	10	1882	1 . 94	—	—
Aberdeen	29 · 758	37 · 0	35 · 3	42 · 0	32 · 8	58	1873	6	1882	3 · 11	39 · 9	20
Leith	29 · 797	38 · 7	37 · 2	44 · 1	33 · 7	58	1873, 88	6	1882	1 · 89	—	—
Shields	29 · 836	38 · 4	37 · 0	43 · 1	33 · 9	59	1873	10	1878, 79	2 · 32	—	—
Spurn Head	29 · 870	38 · 9	37 · 8	42 · 6	35 · 4	55*	1888	19*	1891	2 · 05	—	—
York	29 · 886	36 · 6	35 · 6	42 · 5	32 · 4	59	1888, 91	0	1879	2 · 21	26 · 5	12
Loughborough	29 · 922	36 · 4	35 · 4	43 · 0	32 · 3	59*	1888	7*	1890	2 · 24	—	—
Ardrossan	29 · 809	40 · 3	39 · 1	44 · 7	36 · 2	55	1880	15	1879	3 · 66	—	—
Malin Head	29 · 768	41 · 3	39 · 6	45 · 2	38 · 1	—	—	—	—	—	—	—
Belmullet	29 · 822	42 · 8	40 · 9	46 · 9	39 · 0	—	—	—	—	5 · 36	—	—
Donaghadee	29 · 840	40 · 4	39 · 5	45 · 8	36 · 3	56	1885, 88, 94	20	1879	2 · 85	—	—
Holyhead	29 · 876	42 · 8	41 · 2	46 · 5	39 · 2	56	1872, 88	25	1874	3 · 83	—	—
Liverpool	29 · 891	39 · 0	37 · 3	43 · 8	35 · 7	59	1891	13	1878	2 · 62	—	—
Parsonstown	29 · 891	38 · 3	37 · 0	45 · 1	33 · 5	58	1877	8	1878	3 · 09	45 · 0	20
Valencia	29 · 900	45 · 0	42 · 9	49 · 9	40 · 4	57	1884, 88	24	1886	5 · 93	43 · 9	19
Roche's Point	29 · 908	43 · 5	42 · 1	48 · 2	39 · 4	58	1873	25	1882	5 · 16	—	—
Pembroke	29 · 914	43 · 9	42 · 6	47 · 0	40 · 5	55	1876	19	1890	3 · 96	46 · 0	20
Scilly	29 · 950	47 · 4	45 · 5	49 · 8	43 · 6	57	1876	30	1890	4 · 00	—	—
Prawle Point	29 · 970	42 · 8	41 · 4	47 · 3	38 · 5	55*	1881, 88	25*	1885, 87, 90	3 · 77	—	—
Jersey	29 · 993	43 · 5	41 · 7	47 · 7	39 · 7	61	1876	19	1871	3 · 76	62 · 6	25
Hurst Castle	29 · 962	40 · 9	40 · 1	45 · 9	36 · 7	58	1876	19	1890	2 · 77	—	—
Dover	29 · 954	40 · 0	38 · 9	44 · 7	35 · 9	56	1880	12	1890	2 · 79	—	—
LONDON	29 · 956	38 · 0	36 · 8	44 · 3	34 · 0	58	1873, 88, 91	11	1878	2 · 11	11 · 8†	5†
Oxford	29 · 956	37 · 1	36 · 0	43 · 2	33 · 6	58	1888	6	1878	2 · 10	41 · 8	18
Cambridge	29 · 941	36 · 4	35 · 6	43 · 2	31 · 6	59	1878, 88	0	1879	1 · 82	41 · 2	18
Yarmouth	29 · 915	38 · 1	37 · 1	42 · 2	33 · 8	56	1873	15	1879	2 · 53	—	—

* 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, 30·63 ins: at Lyons; 30·5 ins: and upwards in an anticyclone lying over nearly the whole of France and South Germany.
Lowest, 29·4 ins: and less, in a depression lying off the northern part of the Norwegian coast.
Gradients rather steep over our Islands, the North Sea, Denmark, and the south of Scandinavia, slight elsewhere.
Barometer falling generally – briskly in the north of our Islands.

TEMPERATURE

Highest, 55° at Parsonstown, and 54° at Valencia (Ireland), Rockle Point, and Scilly; above 50° in most parts of the United Kingdom.
Lowest, (1) 7° at Haparanda, 25° at Bodø and 33° at Hernösand; (2) 34° at Lyons, 36° at Lerwick and 38° at Belfast.
During yesterday the thermometer rose to 55° or a little more in several parts of the United Kingdom, the highest readings reported being 58° at Cambridge, and 57° at Aberdeen and Loughborough.

WIND

SW[3] over northwestern Europe generally, and strong in force on many parts of our own western and northern coasts, with a gale at Aberdeen and Holyhead.
E[3] or SE[3] in the south of France and also over the northern parts of Scandinavia.

WEATHER

Cloudy or dull over northwestern Europe generally, with rain at most of our western and northern stations and also in the west of Norway and the south of Sweden; snow is falling at Hernösand.
Fine and bright over the southern parts of France.
Since yesterday morning rain has fallen in Ireland and the west and north of Holland; the amount being slight in most places, but rather large at Stornoway.

SEA

Rough or rather so on several of the more exposed parts of our western, southern, and extreme northern coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The gradient over our Islands is steadily increasing, and the wind seems likely to blow hard from the SW.ly and W.ly on many parts of our coasts, with equally rainy weather.

FORECASTS

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

DISTRICTS.		FORECASTS.
↑ 0	SCOTLAND NORTH	SW[4] to W[4] winds, increasing in force; squally, some rain.
↑ 1	SCOTLAND EAST	
↑ 2	ENGLAND N.E.	Same as N° 5.
↑ 3	ENGLAND EAST	
4	MIDLAND COUNTIES	
↑ 5	ENGLAND SOUTH	SW[4] winds, increasing in force; dull, squally, some rain.
↑ 6	SCOTLAND WEST	SW[4] to W[4] gales and strong winds; squally, rainy.
↑ 7	ENGLAND N.W.	
↑ 8	ENGLAND S.W.	
↑ 9	IRELAND NORTH	
↑ 10	IRELAND SOUTH	
	WARNINGS	At 10 am today to all coasts "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 ...	30·05	45	44	SSE	4	r	4
Sumburgh Head							
Stornoway	29·80	54	53	W	7	0	7
Aberdeen							
Shields							
Ardrossan							
Malin Head ...	30·09	53	50	SW	5	c	4
Belmullet	30·17	54	52	SW	6	0	*
Holyhead							

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia							
Scilly							
Jersey							
Hurst Castle ...							
Dungeness ...	30·32	53	53	WSW	3	0	3
North Foreland	30·51	55	50	WSW	4	c	2
London (Westminster)							*
Yarmouth ...							
Rochefort ...	30·60	57	55	E	2	6	*

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 4TH TO THE 10TH DEC. 1898.

Throughout this period the southern countries were under the influence of a large anticyclone embracing nearly the whole of Central and southern Europe, while the northern and northwestern countries were affected by some large depressions the centres of which skirted our own northern coasts, and passed eastwards across Scandinavia and northern Russia. In the former regions the winds were therefore light and rather variable, and the weather mostly fair and dry, the only exception occurring on the 8th when a shallow depression was formed temporarily over the Gulf of Lyons and occasioned heavy rain in northern Italy: Over our Islands and northern Europe, however, the wind blew with considerable strength from the W^rd (SW. to NW), and frequently reached the force of a gale, especially in the more northern districts, the weather being exceedingly changeable, with a good deal of rain in our Islands and occasional snow over the northern parts of Scandinavia & Russia. Between the 6th and 7th when some small secondary depressions moved eastwards over England a heavy fall of rain occurred over our southern counties, the amount in London in about 24 hours being as much as 1·4 ins.

In the ridges of comparatively high pressure which separated the large disturbances in the north the thermometer occasionally fell to a very low level, especially in the northern parts of Scandinavia. Frost was also experienced at times in some of the more central parts of Europe, but in our Islands the weather was extremely mild, especially at the beginning and end of the week, when the thermometer reached a maximum of 55° or more in several parts of the Kingdom — on the 5th it touched 60° at York.

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 Tuesday 13th December, 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.	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.	Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...	29.63	-?	E	4	s	29.63	+ .07	9	9	+2	E	4	o	≡	s	≡	10	-2	0.39
	Hernösand ...	29.36	35	Z	o	r	29.40	-.22	30	29	-3	N	4	o	≡	r	≡	35	10	0.12
	Stockholm ...	29.32	45	S	2	r	29.23	-.52	34	34	0	NNW	8	r	≡	r	≡	45	25	0.51
	Wisby	29.52	45	SSW	4	r	29.22	-.64	37	37	-2	NNW	10	r	≡	r	≡	46	36	0.35
	Karlstad ...	29.31	45	NW	4	o	29.55	-.14	34	32	-5	WNW	2	b	≡	o,r	≡	≡	≡	0.12
	Bodö	29.24	23	E	6	s	29.39	+.04	21	18	-4	E	5	bc	2	s	≡	27	19	—
	Christiansund ...	29.47	42	WNW	6	r	29.52	-.01	40	36	-4	NW	8	r	6	r	≡	44	36	0.51
	Skudesnaes ...	29.58	43	NW	8	c	29.93	+.09	42	39	-7	NW	9	r	4	r c	≡	49	37	≡
	Færder (Christiania Fjord)	29.34	45	SW	4	bc	29.63	-.06	39	35	-8	WSW	4	b	4	bc	≡	47	39	—
	Skagen (The Scaw)	29.44	48	W	6	mv	29.76	-.12	41	36	-7	NW	6	b	2	mv	≡	50	41	0.08
	Fanö	29.71	49	WSW	6	r	30.07	-.07	42	38	-5	NW	6	c	≡	r	≡	50	42	0.08
British Islands	Sumburgh Head	29.78	42	NW	4	bc	30.07	+.56	42	40	-7	NW	4	c	6	r,bc	≡	49	39	0.41
	Stornoway ...	30.04	41	NNW	3	b	30.21	+.68	37	36	-15	NW	3	bc	3	r,b	0.4	?52	34	0.60
	Wick	29.96	40	NW	3	o	30.21	+.59	35	34	-13	NW	2	b	2	o	≡	54	34	0.04
	Nairn	30.04	43	W	1	b	30.23	+.62	39	38	-14	W	1	b	1	b	≡	53	36	0.19
	Aberdeen ...	29.98	44	NW	9	bq	30.25	+.56	37	35	-14	W	1	bcm	2	cpq,bq	0.1	53	37	0.12
	Leith	30.06	46	WSW	3	bc	30.29	+.49	43	42	-9	W	1	o	≡	bc	≡	56	39	—
	Shields	30.06	52	W	3	bc	30.32	+.37	39	38	-13	W	3	c	2	o,bc	≡	58	36	—
	Spurn Head ...	30.02	52	W	4	o	30.33	+.23	41	40	-8	WNW	1	bc	3	o	≡	53	40	—
	York	30.07	56	W	4	c	30.37	+.29	36	35	-16	WSW	1	f	≡	c	0.5	57	35	0.01
	Loughborough ...	30.11	54	WSW	3	bc	30.40	+.18	33	32	-18	W	1	bf	≡	c,oq,bf	≡	56	33	—
	Ardrossan ...	30.11	48	WNW	4	b	30.32	+.47	47	47	-3	SW	3	o	2	bcpq,b	≡	52	43	0.01
	Malin Head ...	30.16	48	NNW	5	bc	30.33	+.59	47	42	-5	W	3	c	2	c,bc	≡	52	42	0.03
	Belmullet ...	30.29	47	NW	1	b	30.41	+.51	47	45	-6	W	3	o	≡	b	≡	53	40	0.01
	Donaghadee ...	30.17	45	NNW	4	b	30.38	+.46	44	42	-8	WNW	3	c	1	b	≡	55	38	0.01
	Liverpool (Bidston)	30.19	50	W	5	o	30.39	+.29	44	42	-8	WNW	1	c	1	pq,o	≡	57	44	0.03
	Holyhead ...	30.22	51	NW	6	o	30.40	+.30	46	43	-6	NW	3	c	2	dm,o	≡	54	43	0.03
	Parsonstown ...	30.28	43	Z	o	b	30.45	+.42	37	36	-18	Z	o	o	≡	od,b	0.0	55	34	0.03
	Valencia ...	30.32	48	N	2	c	30.48	+.38	44	42	-10	NNE	1	o	3	c	0.1	55	42	0.02
	Roche's Point ..	30.30	50	NW	3	bc	30.46	+.31	45	43	-9	NW	3	c	3	bc	≡	55	43	0.01
	Pembroke (St. Ann's Hd.)	30.21	54	W	5	o	30.42	+.22	47	44	-6	NNE	3	oq	4	o	0.0	54	46	—
	Scilly	30.30	54	WSW	5	mv	30.40	+.09	51	48	-3	NNW	4	c	5	mv	0.0	56	48	0.01
	Prawle Point ...	30.31	53	WSW	4	o	30.36	-.01	50	49	-1	NNW	3	o	2	orm,o	≡	53	48	0.03
	Jersey (St. Aubin's)																≡			
	Hurst Castle ...	30.27	54	WSW	4	opd	30.32	-.05	48	45	-5	NE	2	ogm	2	om,opd	≡	54	47	—
	Dungeness ...	30.21	53	WSW	6	od	30.35	-.01	49	48	-3	N	2	o	2	c,od	≡	54	45	—
	North Foreland	30.24	53	SW	6	c	30.36	-.01	49	47	-1	N	3	c	2	o,c	≡	54	47	—
	London (Brixton) ...	30.29	54	SW	3	o	30.37	+.05	44	42	-7	NNW	2	o	≡	o,odp	0.0	55	44	—
	Oxford	30.23	53	WSW	3	o	30.42	+.12	39	38	-13	N	2	bc	≡	o dp	≡	54	39	—
	Cambridge ...	30.15	55	SW	4	o	30.41	+.15	36	35	-15	Z	o	c	≡	o	0.1	56	34	—
	Yarmouth ...	30.08	53	W	5	cq	30.36	+.14	40	39	-10	NW	2	bcm	4	bc,cq	≡	54	38	—
Germany & Holland	Cuxhaven ...	30.00	47	WSW	5	o	30.46	-.09	45	41	-1	WNW	5	c	≡	rq,o	≡	48	43	0.08
	Berlin	30.08	51	W	3	d	30.11	-.19	45	41	-5	WNW	5	b	≡	o	≡	52	46	0.04
	Wiesbaden ...	≡	≡	≡	≡	≡	30.31	-.20	48	46	+1	W	1	o	≡	≡	≡	52	46	—
	Munich... ..	30.42	40	W	3	c	30.37	-.23	39	38	0	NW	4	r	≡	c	≡	46	37	0.04
	The Helder ...	30.09	52	SW	5	o	30.32		48	44		NW	2	bc	2	o	≡	52	46	—
Belgium.	Brussels ...	≡	≡	≡	≡	≡	30.38	-.09	44	43	-4	ENE	1	c	≡	r	≡	50	43	—
	Cape Gris Nez ...	?	54	W	6	r	?	?	54	48	+3	E	2	o	2	r	≡	54	46	—
	Paris	30.42	44	SSW	3	b	30.36	-.19	46	46	+4	SSW	2	o	≡	b	≡	52	41	—
	Brest	30.40	55	SW	3	f	30.39		53	52		NW	3	o	3	f	≡	55	50	0.08
	Lorient... ...	30.45	55	W	4	o	30.41	-.08	55	54	+3	NW	2	o	5	o	≡	57	52	0.20
France &	Rochefort ...	30.46	46	SE	2	mv	30.43	-.08	50	50	+11	S	3	r	≡	mv	≡	50	36	—
	Belfort	30.44	42	WSW	4	o	30.45	-.12	35	34	-3	WSW	5	mv	≡	f	≡	51	33	—
	Lyons	30.52	37	WNW	1	b	30.50	-.13	26	26	-8	WSW	1	bc	≡	b	≡	41	26	—
	Nice	30.38	48	E	1	b	30.28	-.15	43	42	-7	E	1	bc	2	b	≡	57	41	—
	Perpignan ...	30.42	50	NW	2	b	30.38	-.11	54	44	+18	NW	4	c	≡	b	≡	63	36	—
	Biarritz ...	30.48	56	W	4	b	30.45	-.07	55	51	+9	WSW	4	o	2	b	≡	57	46	—
Penin-sula.	Corunna ...																≡			
	Lisbon	30.54	57	NNW	3	b	30.54	-.04	50	47	+2	NNE	3	b	≡	b	≡	61	48	—
	Azores (P. Delgada)	30.49	64	SE	3	c	30.53	+.17	63	61	+1	SE	1	c	1	c	≡	66	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 Tuesday, 13th December, 1898

BAROMETER, WIND AND SEA.

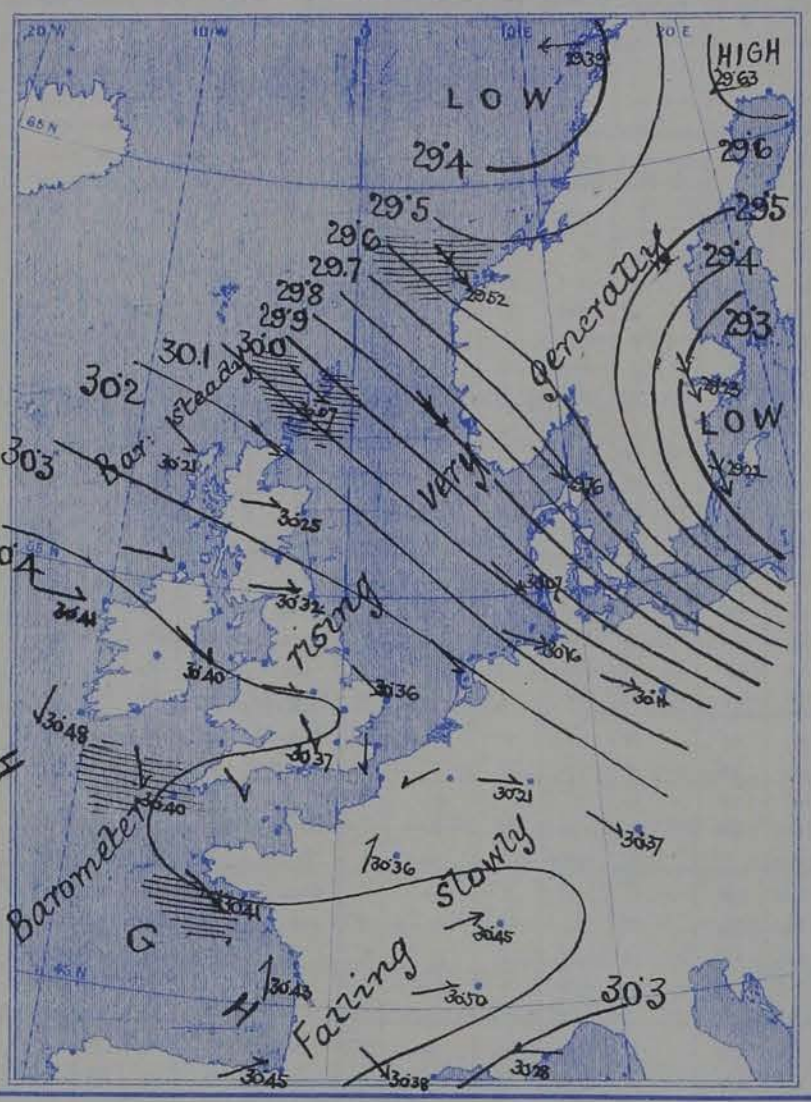
BAROMETER—Isobars are drawn for each tenth of an inch.

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 ▨

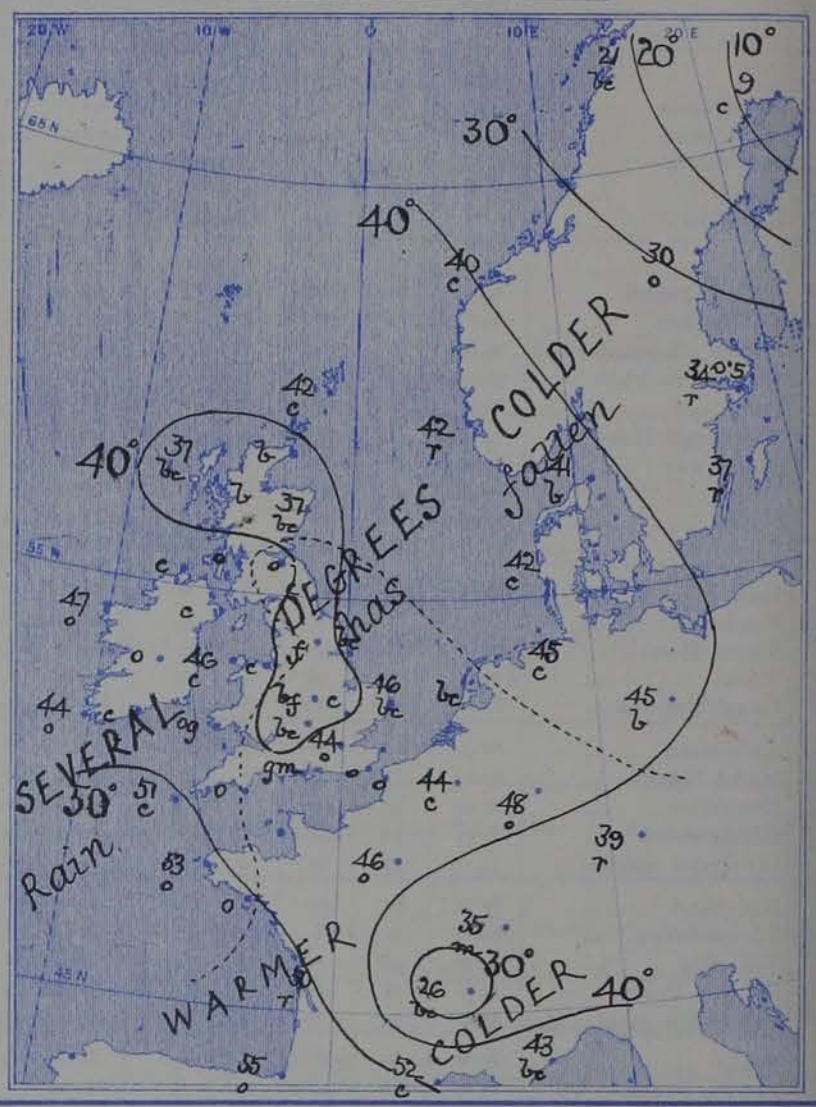


TEMPERATURE & WEATHER.

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 DECEMBER.

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 · 656	39 · 8	38 · 3	42 · 8	35 · 5	53	1890	19	1877	4 · 27	—	—
Stornoway	29 · 688	39 · 6	38 · 7	43 · 3	34 · 4	54	1880	15	1880	5 · 64	25 · 4	13
Wick	29 · 699	38 · 3	37 · 1	42 · 4	33 · 0	55	1889, 94	10	1882	3 · 17	—	—
Nairn	29 · 727	37 · 2	35 · 7	42 · 2	32 · 4	57	1888, 90, 91, 92, 94	10	1882	1 · 94	—	—
Aberdeen	29 · 758	37 · 0	35 · 3	42 · 0	32 · 8	58	1873	6	1882	3 · 11	39 · 9	20
Leith	29 · 797	38 · 7	37 · 2	44 · 1	33 · 7	58	1873, 88	6	1882	1 · 89	—	—
Shields	29 · 836	38 · 4	37 · 0	43 · 1	33 · 9	59	1873	10	1878, 79	2 · 32	—	—
Spurn Head	29 · 870	38 · 9	37 · 8	42 · 6	35 · 4	55*	1888	19*	1891	2 · 05	—	—
York	29 · 886	36 · 6	35 · 6	42 · 5	32 · 4	59	1888, 91	0	1879	2 · 21	26 · 5	12
Loughborough	29 · 922	36 · 4	35 · 4	43 · 0	32 · 3	59*	1888	7*	1890	2 · 24	—	—
Ardrossan	29 · 809	40 · 3	39 · 1	44 · 7	36 · 2	55	1880	15	1879	3 · 66	—	—
Malin Head	29 · 768	41 · 3	39 · 6	45 · 2	38 · 1	—	—	—	—	—	—	—
Belmullet	29 · 822	42 · 8	40 · 9	46 · 9	39 · 0	—	—	—	—	5 · 36	—	—
Donaghadee	29 · 840	40 · 4	39 · 5	45 · 8	36 · 3	56	1885, 88, 94	20	1879	2 · 85	—	—
Holyhead	29 · 876	42 · 8	41 · 2	46 · 5	39 · 2	56	1872, 88	25	1874	3 · 83	—	—
Liverpool	29 · 891	39 · 0	37 · 3	43 · 8	35 · 7	59	1891	13	1878	2 · 62	—	—
Parsonstown	29 · 891	38 · 3	37 · 0	45 · 1	33 · 5	58	1877	8	1878	3 · 09	45 · 0	20
Valencia	29 · 900	45 · 0	42 · 9	49 · 9	40 · 4	57	1884, 88	24	1886	5 · 93	43 · 9	19
Roche's Point	29 · 908	43 · 5	42 · 1	48 · 2	39 · 4	58	1873	25	1882	5 · 16	—	—
Pembroke	29 · 914	43 · 9	42 · 6	47 · 0	40 · 5	55	1876	19	1890	3 · 96	46 · 0	20
Scilly	29 · 950	47 · 4	45 · 5	49 · 8	43 · 6	57	1876	30	1890	4 · 00	—	—
Prawle Point	29 · 970	42 · 8	41 · 4	47 · 3	38 · 5	55*	1881, 88	25*	1885, 87, 90	3 · 77	—	—
Jersey	29 · 993	43 · 5	41 · 7	47 · 7	39 · 7	61	1876	19	1871	3 · 76	62 · 6	25
Hurst Castle	29 · 962	40 · 9	40 · 1	45 · 9	36 · 7	58	1876	19	1890	2 · 77	—	—
Dover	29 · 954	40 · 0	38 · 9	44 · 7	35 · 9	56	1880	12	1890	2 · 79	—	—
LONDON	29 · 956	38 · 0	36 · 8	44 · 3	34 · 0	58	1873, 88, 91	11	1878	2 · 11	11 · 8†	5†
Oxford	29 · 956	37 · 1	36 · 0	43 · 2	33 · 6	58	1888	6	1878	2 · 10	41 · 8	18
Cambridge	29 · 941	36 · 4	35 · 6	43 · 2	31 · 6	59	1878, 88	0	1879	1 · 82	41 2	18
Yarmouth	29 · 915	38 · 1	37 · 1	42 · 2	33 · 8	56	1873	15	1879	2 · 53	—	—

* 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 30.54 ins. at Lisbon, 30.4 ins. and upwards over a considerable portion of Ireland, England and France; 30.2 ins. and upwards in an anticyclone embracing nearly the whole of W.n Europe.
Lowest 29.3 ins. and less in a depression over the N.rn part of the Baltic.
Gradients steep over Denmark, N. Germany and the Baltic, but moderate or slight elsewhere.
Barometer rising at all but the French stations, - very slightly, however, on our extreme NW. coasts.

TEMPERATURE

Highest 55° at Lorient and Biarritz, 54° at Cape Gris Nez, 53° at Brest, 52° at Perpignan, & 51° at Scilly.
Lowest (1) 9° at Haparanda, and 21° at Bodo; (2) 26° at Lyons, and 35° at Belfort; (3) 33° at Loughborough and 35° at Wick.
During yesterday the thermometer rose to 55° or a little above it in several parts of the United Kingdom and to 58° at Shields. Ground frost occurred last night at some of the northern and central stations; at Loughborough the thermometer on the grass fell to 27°.

WIND

Light from the W.rd or NW.rd over the greater part of our Islands, but N.ly at some of our extreme N. stations.
Strong to a gale from the NW.rd over Denmark and the southern parts of Scandinavia, and fresh from the same quarter in Germany; E.ly in the north of Scandinavia.
Light to moderate from the SW.rd over the greater part of France.

WEATHER

Fine over the N. of Scotland and the E.rn and central parts of England, as well as in Denmark, N. Germany and the S. of France.
Cloudy or dull elsewhere, with rain in the W. of Norway and the S. of Sweden.
Rain fell yesterday in the W. and extreme N. of our Islands generally, and slight drizzling showers in the S. of England.

SEA

Rough at Stumbugh H.d and Christiansund, and rather rough at Scilly, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The low pressure area noticed yesterday morning in the north has moved away rapidly to the E.rd, and an anticyclone has spread over our Islands from the Atlantic. Fair dry weather seems likely to prevail for a time on all but our extreme N. and NW. coasts, where the baric rise is already slackening considerably.

FORECASTS

For the 24 hours ending at NOON on 14TH DECEMBER 1898

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	NW.ly to W.ly winds, moderate or fresh; fine at first, some rain later.
1 SCOTLAND EAST	W.ly or NW.ly winds, light; fair generally, but some fog or mist.
2 ENGLAND N.E.	
3 ENGLAND EAST	N.ly and NW.ly winds, light; fair generally, but some fog or mist; frost at night.
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	
6 SCOTLAND WEST	W.ly winds, moderate; cloudy, rain locally.
7 ENGLAND N.W.	Same as Nos. 1 and 2.
8 ENGLAND S.W.	Same as Nos. 3 to 5.
9 IRELAND NORTH	Same as No. 6.
10 IRELAND SOUTH	NW.ly to W.ly winds, light; fair generally.
WARNINGS	At 10.20 am today to all coasts. 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 ...	29.58	48	48	SW	6	rf	4
Sumburgh Head	29.56	43	42	NW	3	r	6
Stornoway	29.87	45	44	NW	4	r	4
Aberdeen	29.72	46	44	WNW	8	cpq	4
Shields	29.84	55	52	SW	3	o	2
Ardrossan	29.90	49	48	WNW	7	bcpq	5
Malin Head ...	30.04	48	44	NNW	6	c	4
Belmullet	30.20	49	45	NNW	3	b	*
Holyhead	30.08	54	53	SW	7	dm	5

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30.23	50	48	NNW	4	c	5
Scilly	30.29	55	55	SW	5	m	5
Jersey							
Hurst Castle ...	30.29	54	52	WSW	5	om	3
Dungeness ...	30.24	54	53	WSW	5	e	5
North Foreland	30.26	53	50	SW	4	o	3
London (Westminster)	30.22	56	51	SW	4	og	*
Yarmouth ...	30.10	53	50	WSW	4	be	4
Rochefort ...	30.49	49	46	W	2	m	*

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

Weather in morning cloudy or dull in all but the S^rn. countries, with rain in the W. and N. of our Islands, and also in the W. of Norway and the S. of Sweden; snow falling at Hernösand and St. Petersburg. Fine and bright over Italy, the Spanish peninsula and the S. of France. Sky clearing later in the W. and N. of our Islands, but slight rain falling in the S. of England, and larger quantities in neighbouring parts of the Continent.

Temperature changed very little in our Islands, risen in Scandinavia and Denmark, fallen in most other countries. Morning readings highest 61° at Malta, and 59° at Sanguinaire and Brindisi; above 50° in nearly all parts of the United Kingdom. Lowest −5° F. at Archangel, +7° at Haparanda, and 11° at Uleaborg; below the freezing point over the N^rn. parts of Russia and Scandinavia generally, as well as in some parts of central France. Rising during day to 55° and upwards in many parts of our Islands and the W. and S. of France, and reaching 63° at Perpignan.

Wind SW^ly over northwestern Europe generally, and very strong in force on many parts of our own western and northern coasts; W^ly over Denmark, Germany, Austria and the south of Russia; E^ly (NE. to SE.) over the northern parts of Russia and Scandinavia. N^ly over Italy and Greece; E^ly over the Spanish Peninsula and south of France. Subsequently veering to the NW^rd in the west and north of our Islands, and moderating in force.

Barometer 30.6 ins. and upwards over central France; 30.3 ins. and upwards in an anticyclone embracing nearly the whole of central and S^rn. Europe. Lowest 29.4 ins. and less in a depression lying off the N^rn. part of the Norwegian coasts; 29.5 ins. and less in another disturbance over central Russia. Rapid rise of barometer taking place later in the N. of our Islands, and less decided rise on our W^rn. 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.

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 Wednesday, 14th December, 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 ...														#		#			
	Stockholm ...														#		#			
	Wisby														#		#			
	Karlstad ...														#		#	#	#	
	Bodö	29.64	16	E	6	o	29.66	+ .27	9	8	- 12	E	7	c	3	o	#	21	9	-
	Christiansund ...	29.87	39	nnw	4	r	29.31	- .21	36	35	- 4	SE	6	r	5	r	#	40	36	0.16
	Skudesnaes ...	30.11	39	N	o	m	29.60	- .33	45	45	+ 3	SSW	6	r	4	m	#	45	36	#
	Færder (Christiania Fjord)	29.89	42	W	2	b	29.72	+ .09	40	35	+ 1	W	4	o	3	b	#	46	39	-
	Skagen (The Scaw)	29.98	42	nw	4	b	29.81	+ .05	42	40	+ 1	W	2	o	o	b	#	45	39	-
	Fanö	30.17	43	nw	5	c	29.97	- .10	45	43	+ 3	W	4	r	#	c	#	45	41	0.04
	Sumburgh Head	29.98	41	W	2	o	29.85	- .12	45	43	+ 3	W	7	r	7	o	#	49	41	0.45
	Stornoway ...	30.00	48	SW	4	o	29.68	- .53	45	44	+ 8	nnw	4	c	4	o	0.0	48	34	0.30
	Wick	30.07	43	nw	4	o	29.59	- .62	45	44	+ 10	nnw	7	ou	5	o	#	50	?32	0.08
	Nairn	30.11	45	W	2	c	29.66	- .57	49	46	+ 10	wsw	3	bc	2	c	#	53	36	0.04
	Aberdeen ...	30.18	40	SW	2	bc	29.67	- .58	50	47	+ 13	W	2	cu	2	bc	1.3	50	36	-
	Leith	30.23	45	W	2	o	29.79	- .50	52	50	+ 9	W	6	o	#	o	#	?52	41	-
	Shields	30.32	42	wsw	2	bc	29.94	- .38	51	48	+ 12	wsw	4	op	2	bc	#	51	37	-
	Spurn Head ...	30.34	45	nnw	4	o	30.05	- .28	44	42	+ 3	wsw	5	o	4	bc.o	#	46	39	-
	York	30.37	42	W	1	b	30.06	- .31	48	46	+ 12	SW	3	o	#	b	?	48	35	-
	Loughborough ...	30.41	43	nnw	1	o	30.20	- .20	43	41	+ 10	SW	2	c	#	f.bc.c	#	48	32	-
	Ardrossan ...	30.29	48	SSW	3	o	29.90	- .42	51	51	+ 4	SW	4	rm	4	c.o	#	51	46	0.06
	Malin Head ...	30.26	47	SSW	4	rm	29.95	- .38	50	48	+ 3	nw	5	cp	3	c.rm	#	51	42	0.05
	Belmullet ...	30.36	50	wsw	5	o	30.16	+ .25	52	51	+ 5	nnw	5	o	#	o	#	52	45	0.03
	Donaghadee ...	30.35	45	SW	3	c	30.01	- .37	51	51	+ 7	W	5	c	3	c	#	51	39	0.02
	Liverpool (Bidston)	30.42	45	nnw	3	o	30.12	- .27	48	47	+ 4	SW	4	r	3	c.o	#	51	41	-
British Islands.	Holyhead ...	30.43	47	nw	2	og	30.16	- .24	51	50	+ 5	SW	4	am	3	o.og	#	51	43	0.03
	Parsonstown ...	30.44	45	SW	1	o	30.19	- .26	51	50	+ 14	nw	1	o	#	o	0.0	58	36	-
	Valencia ...	30.49	49	SW	2	om	30.31	- .17	52	52	+ 8	SW	3	f	4	o.om	o 4	52	43	0.09
	Roche's Point ...	30.50	47	nnw	2	bc	30.30	- .16	52	51	+ 7	wsw	4	o	4	bc	#	52	44	-
	Pembroke (St. Ann's Hd.)	30.46	44	nnw	3	c	30.27	- .15	51	50	+ 4	W	6	og	5	c.c	0.0	51	44	0.06
	Scilly	30.48	49	nnw	4	c	30.41	+ .01	50	50	- 1	wsw	4	opm	3	o.c	0.0	52	45	-
	Prawle Point ...	30.48	45	nnw	2	o	30.41	+ .05	47	45	- 3	nw	3	o	2	c.o	#	52	41	-
	Jersey (St. Aubin's)																*			
	Hurst Castle ...	30.43	43	N	1	cm	? 30.35	+ .03	48	45	0	wsw	4	c	3	bcm cm	#	51	39	-
	Dungeness ...	30.37	48	N	2	c	30.31	- .04	44	41	- 5	wsw	4	c	3	bc.c	#	52	35	-
	North Foreland	30.39	48	nne	1	c	30.31	- .05	39	36	- 10	wsw	2	c	o	c	#	50	36	-
	London (Brixton) ...	30.42	46	NE	1	om	30.30	- .07	39	37	- 5	wsw	2	bc	#	of.b	0.0	47	35	-
	Oxford	30.45	38	N	1	c	30.28	- .14	41	40	+ 2	SW	1	bc	#	c	#	48	36	-
	Cambridge ...	30.42	40	nnw	1	b	30.23	- .18	40	38	+ 4	SW	3	o	#	o,b	0.8	46	34	-
	Yarmouth ...	30.34	44	W	2	bc	30.17	- .19	40	38	0	SW	4	c	4	bc	#	47	36	-
Germany & Holland.	Cuxhaven ...	30.23	43	nnw	1	o	30.08	- .08	41	41	- 4	SW	2	o	#	o	#	45	39	-
	Berlin	30.13	42	nw	5	o	30.15	+ .04	38	37	- 7	W	4	b	#	o	#	50	37	-
	Wiesbaden ...	*	*	*	*	*	30.35	+ .04	33	33	- 15	NE	2	bc	#	#	#	50	33	-
	Munich	30.35	41	W	3	o	30.36	- .01	38	38	- 1	nw	2	o	#	o	#	43	37	0.08
	The Helder ...	30.31	47	nw	2	b	30.13	- .19	47	42	- 1	wsw	4	o	3	b	#	48	36	.-
France & Belgium.	Brussels ...	*	*	*	#	*	30.34	- .04	37	37	- 7	wsw	2	f	#	o	#	46	33	-
	Cape Gris Nez ...	?	47	SE	1	bc	?	?	46	41	- 8	nnw	4	o	3	bc	#	54	41	-
	Paris	30.34	49	E	o	f	30.40	+ .04	40	39	- 6	ESE	2	o	#	f	#	50	40	0.16
	Brest	30.45	50	N	2	o	30.48	+ .09	48	46	- 5	nw	1	c	2	o	#	55	45	-
	Lorient	30.43	52	NNE	4	c	30.48	+ .07	49	47	- 6	N	2	c	2	c	#	57	46	-
	Rochefort ...	30.36	54	nw	3	o	30.41	- .02	50	48	0	NNE	3	o	#	r.o	#	55	46	0.16
	Belfort	30.35	40	NSW	1	r	30.39	- .06	40	40	+ 5	NSW	1	f	#	r	#	43	35	0.16
	Lyons	30.39	41	SSW	1	r	30.40	- .10	42	42	+ 16	N	1	m	#	r	#	45	26	0.04
	Nice	30.15	49	E	o	o	30.11	- .17	45	44	+ 2	E	o	b	1	o	#	55	41	-
	Perpignan ...	30.33	54	W	4	o	30.28	- .10	54	50	0	nw	2	c	#	o	#	59	50	-
	Biarritz ...	30.40	55	W	5	r	30.40	- .05	54	51	- 1	nnw	3	o	3	r	#	55	52	0.47
Peninsula.	Corunna ...																*			
	Lisbon	30.42	55	NNE	4	b	30.42	- .12	47	44	- 3	NNE	2	b	#	b	#	61	46	-
	Azores (P. Delgada)	30.57	63	SE	2	o	30.57	+ .04	61	59	- 2	ESE	2	o	2	o	#	68	59	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 Wednesday, 14th December, 1898

BAROMETER, WIND AND SEA.

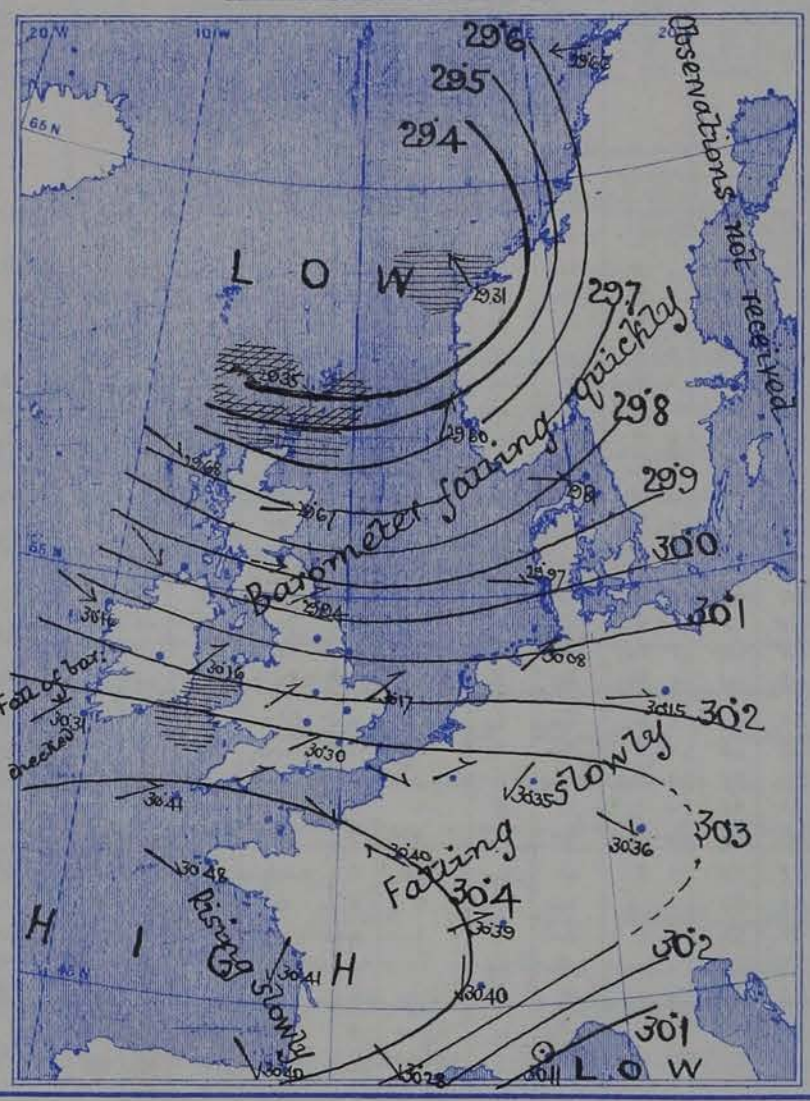
BAROMETER—Isobars are drawn for each tenth of an inch.

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* ▩

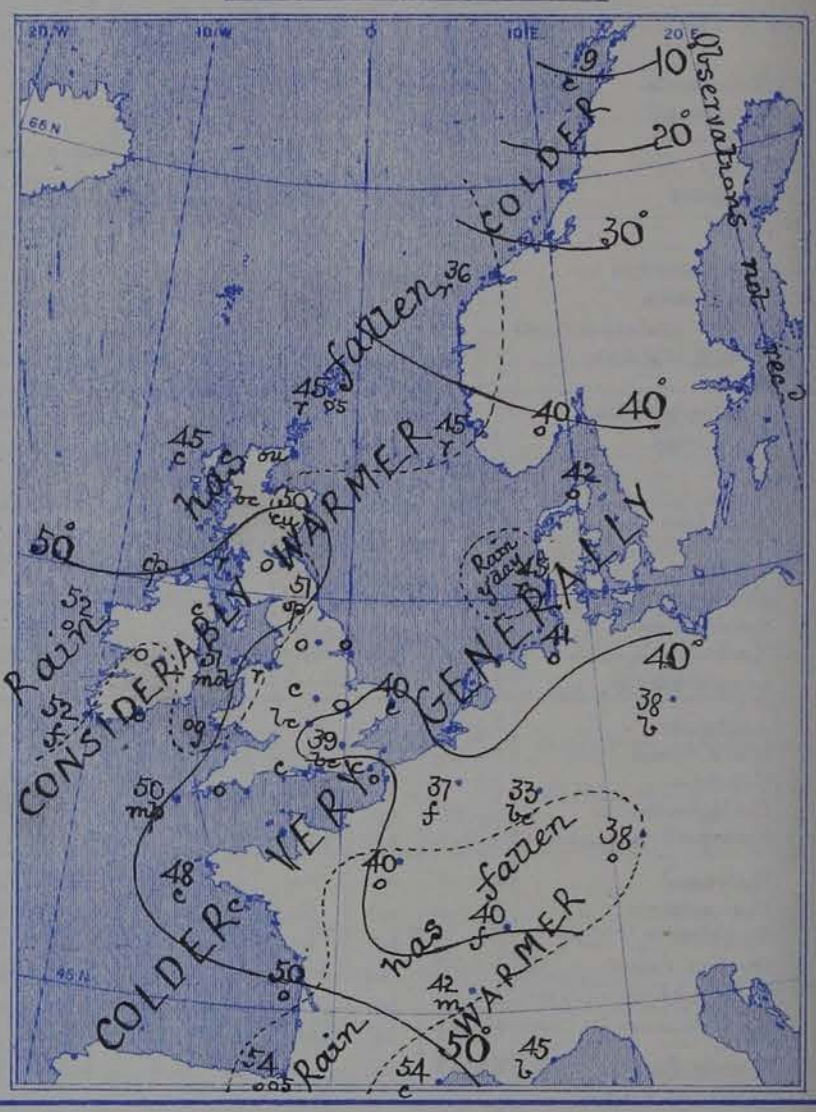


TEMPERATURE & WEATHER.

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 DECEMBER.*

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 · 656	39 · 8	38 · 3	42 · 8	35 · 5	53	1890	19	1877	4 · 27	—	—
Stornoway	29 · 688	39 · 6	38 · 7	43 · 3	34 · 4	54	1880	15	1880	5 · 64	25 · 4	13
Wick	29 · 699	38 · 3	37 · 1	42 · 4	33 · 0	55	1889, 94	10	1882	3 · 17	—	—
Nairn	29 · 727	37 · 2	35 · 7	42 · 2	32 · 4	57	1888, 90, 91, 92, 94	10	1882	1 . 94	—	—
Aberdeen	29 · 758	37 · 0	35 · 3	42 · 0	32 · 8	58	1873	6	1882	3 · 11	39 · 9	20
Leith	29 · 797	38 · 7	37 · 2	44 · 1	33 · 7	58	1873, 88	6	1882	1 · 89	—	—
Shields	29 · 836	38 · 4	37 · 0	43 · 1	33 · 9	59	1873	10	1878, 79	2 · 32	—	—
Spurn Head	29 · 870	38 · 9	37 · 8	42 · 6	35 · 4	55*	1888	19*	1891	2 · 05	—	—
York	29 · 886	36 · 6	35 · 6	42 · 5	32 · 4	59	1888, 91	0	1879	2 · 21	26 · 5	12
Loughborough	29 · 922	36 · 4	35 · 4	43 · 0	32 · 3	59*	1888	7*	1890	2 · 24	—	—
Ardrossan	29 · 809	40 · 3	39 · 1	44 · 7	36 · 2	55	1880	15	1879	3 · 66	—	—
Malin Head	29 · 768	41 · 3	39 · 6	45 · 2	38 · 1	—	—	—	—	—	—	—
Belmullet	29 · 822	42 · 8	40 · 9	46 · 9	39 · 0	—	—	—	—	5 · 36	—	—
Donaghadee	29 · 840	40 · 4	39 · 5	45 · 8	36 · 3	56	1885, 88, 94	20	1879	2 · 85	—	—
Holyhead	29 · 876	42 · 8	41 · 2	46 · 5	39 · 2	56	1872, 88	25	1874	3 · 83	—	—
Liverpool	29 · 891	39 · 0	37 · 3	43 · 8	35 · 7	59	1891	13	1878	2 · 62	—	—
Parsonstown	29 · 891	38 · 3	37 · 0	45 · 1	33 · 5	58	1877	8	1878	3 · 09	45 · 0	20
Valencia	29 · 900	45 · 0	42 · 9	49 · 9	40 · 4	57	1884, 88	24	1886	5 · 93	43 · 9	19
Roche's Point	29 · 908	43 · 5	42 · 1	48 · 2	39 · 4	58	1873	25	1882	5 · 16	—	—
Pembroke	29 · 914	43 · 9	42 · 6	47 · 0	40 · 5	55	1876	19	1890	3 · 96	46 · 0	20
Scilly	29 · 950	47 · 4	45 · 5	49 · 8	43 · 6	57	1876	30	1890	4 · 00	—	—
Prawle Point	29 · 976	42 · 8	41 · 4	47 · 3	38 · 5	55*	1881, 88	25*	1885, 87, 90	3 · 77	—	—
Jersey	29 · 993	43 · 5	41 · 7	47 · 7	39 · 7	61	1876	19	1871	3 · 76	62 · 6	25
Hurst Castle	29 · 962	40 · 9	40 · 1	45 · 9	36 · 7	58	1876	19	1890	2 · 77	—	—
Dover	29 · 954	40 · 0	38 · 9	44 · 7	35 · 9	56	1880	12	1890	2 · 79	—	—
LONDON	29 · 956	38 · 0	36 · 8	44 · 3	34 · 0	58	1873, 88, 91	11	1878	2 · 11	11 · 8†	5†
Oxford	29 · 956	37 · 1	36 · 0	43 · 2	33 · 6	58	1888	6	1878	2 · 10	41 · 8	18
Cambridge	29 · 941	36 · 4	35 · 6	43 · 2	31 · 6	59	1878, 88	0	1879	1 · 82	41 · 2	18
Yarmouth	29 · 915	38 · 1	37 · 1	42 · 2	33 · 8	56	1873	15	1879	2 · 53	—	—

* 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: and upwards in an anticyclone lying over France, the Bay of Biscay, and the western part of the English Channel.
Lowest, 29·3 in: and less, in a large depression lying off the west of Norway.
Gradients moderate over our Islands and the North Sea, but slight elsewhere.
Barometer falling over Northwestern Europe generally, but rising again on our extreme southwest coasts.

TEMPERATURE

Highest, (1) 54° at Biarritz and Perpignan; (2) 52° at Leith, Belmullet, Valencia (Ireland) and Rochs Point.
Lowest, (1) 9° at Bodö and 36° at Christiansund; (2) 33° at Wiesbaden, 37° at Brussels, 38° at Berlin and Munich, and 39° in London.
A considerable rise has taken place in the west and north of our Islands, and the change is spreading eastwards and southwards.

WIND

W' or SW' over northwestern Europe generally, and strong to a gale in force in the north of Scotland.
Strong from the E^ly or SE^ly in the west of Norway.
Light from the NW^ly or N^ly over the greater part of France.

WEATHER

Cloudy or dull over Western Europe as a whole, with rain at some of our own western stations and also in the west of Norway.
Fair or fine in the southeast of England, as well as at many stations in Germany and the south of France.
Since yesterday morning rain has fallen in the west and extreme north of our Islands, and also over the central and southern parts of France, the quantity being mostly slight, but rather large in the Shetlands and Hebrides.

SEA

High at Lumburgh Head, and rather rough at Wick and Christiansund as well as at Pembroke, but moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Another large depression has appeared in the north and is apparently moving eastwards. In its rear the wind is likely to increase to a gale from the NW^ly on our extreme north and northwest coasts. Mild showery weather is again likely to spread over England.

FORECASTS

For the 24 hours ending at NOON on 15TH DECR 1898

DISTRICTS.		FORECASTS.
↑ 0	SCOTLAND NORTH	W^ly to NW^ly winds, strong, a gale in places; squally, showery.
↑ 1	SCOTLAND EAST	
2	ENGLAND N.E.	W^ly winds, freshening considerably; squally, showery.
3	ENGLAND EAST	SW^ly to W^ly winds, freshening; fair at first, showery later.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	
↑ 6	SCOTLAND WEST	Same as Nos 0 and 1.
7	ENGLAND N.W.	SW^ly to W^ly winds, increasing in force; squally, showery.
8	ENGLAND S.W.	W^ly winds, freshening; cloudy, showery.
↑ 9	IRELAND NORTH	Same as Nos 0 and 1.
10	IRELAND SOUTH	Same as No 8.
	WARNINGS	At 7·15pm yesterday to districts 0, 6, and parts of 1 and 9 "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 ...	30·08	43	39	NW	4	c	4
Sumburgh Head	30·09	41	39	W	1	0	3
Stornoway	30·14	45	44	SW	3	0	3
Aberdeen	30·24	43	40	SW	2	bc	2
Shields	30·33	46	43	WSW	2	bc	2
Ardrossan	30·31	48	48	WSW	3	c	2
Malin Head ...	30·30	47	45	WSW	4	c	2
Belmullet	30·38	50	47	W	3	0	*
Holyhead	30·43	47	43	W	3	0	2
Valencia	30·48	51	47	WSW	2	0	4
Scilly	30·45	50	46	NNW	4	c	4
Jersey							
Hurst Castle ...	30·37	50	47	N	1	bcm	2
Dungeness ...	30·33	51	49	ENE	2	bc	4
North Foreland	30·37	50	46	E	0	c	1
London (Westminster)	30·38	49	45	NE	1	fg	*
Yarmouth ...	30·34	47	45	NNW	2	bc	4
Rochefort ...	30·39	55	55	WSW	3	r	*

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

Weather in morning fine in the north of Scotland and the eastern and central parts of England, as well as over the Netherlands, Denmark, North Germany and the greater part of Southern Europe. Cloudy or dull elsewhere, with rain in the west of Norway and the south of Sweden, as well as in some parts of Austria, south Germany and northern Italy. Snow falling at Kuopio and St Petersburg. A little rain falling later in the west and extreme north of our Islands and also over the central and southern parts of France.

Temperature fallen considerably in our Islands, and to a less extent in many parts of the Continent, but risen in France and also over the Baltic Provinces and the Gulf of Finland. Morning readings highest 60° at Malta, 58° at Sanpunaire, and 56° at Palermo; above 50° at most of the Mediterranean and Adriatic stations and also in the west of France. Lowest −24° F. at Archangel, +9° at Haparanda, 10° at Ukabry and 18° at Kuopio; below the freezing point over the northern parts of Russia and Scandinavia generally, and very little above it in some parts of Central England. Decided rise taking place later in the west and north of our Islands, but daily maxima mostly below 50°.

Wind light from the W.ly or NW.ly over the United Kingdom generally, but N.ly at some of our extreme southern stations. Strong to a gale from the NW. over Denmark and the southern parts of Scandinavia, and from the W.ly over North Germany and the Baltic Provinces, but E.ly in the extreme northern parts of Russia and Scandinavia. Light from the SW.ly over the greater part of France, N.ly or NE.ly over Spain and Central Italy, W.ly in Austria. Subsequently backing to the SW.ly in Ireland and Scotland; gales in Scandinavia and Denmark moderating.

Barometer highest 30·5 ins. and upwards over Portugal and some parts of Central France; 30·2 ins. and upwards in an anticyclone embracing nearly the whole of western and southern Europe. Lowest 29·0 ins. and less. in a deep depression with its centre over the Gulf of Finland; 29·4 ins. and less. in a shallower disturbance lying off the northern parts of the Norwegian coasts. Both depressions moving eastwards later, but new disturbance beginning to appear off the north of Scotland.

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, 15th December, 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 ...	29.81	-7	N	2	o	29.74	-.31	-5	-6	+13	N	2	c	#	o	#	-1	-27	-
	Hernösand ...	29.58	30	NE	6	s	29.66	-.24	28	27	+16	NE	3	s	#	s	#	?	?	0.12
	Stockholm ...	29.25	?	SE	4	bc	29.12	-.70	28	?	+5	ENE	6	s	#	s.bc	#	28	21	?
	Wisby	29.21	33	S	6	s	28.91	-.90	32	32	0	E	8	s	#	s	#	36	27	0.47
	Karlstad ...	28.98	35	NW	2	b	29.40	-.37	18	17	-11	NNE	8	o	#	s.b.s	#	#	#	0.51
	Bodö	29.50	9	E	7	c	29.54	-.12	9	8	0	E	6	b	2	c	#	10	7	-
	Christiansund ...	28.92	39	SE	5	r	29.32	+.01	34	32	-2	SE	3	s	5	r	#	39	34	0.24
	Skudesnaes ...	29.22	42	WSW	9	o	29.40	-.20	41	39	-4	WNW	10	c	5	c.ol	#	45	36	#
	Færder (Christiania Fjord)	29.08	40	WSW	4	b	29.42	-.30	24	20	-16	NNE	6	c	4	b	#	43	23	0.12
	Skagen (The Scaw)	29.19	41	NW	6	b	29.35	-.46	30	27	-12	NE	5	o	1	b	#	46	30	0.32
	Fanö	29.48	43	NNW	6	bc	29.44	-.53	41	40	-4	NW	7	r	#	bc	#	46	39	0.24
British Islands	Sumburgh Head	29.24	43	NNW	9	r	29.77	+.42	39	36	-6	NW	6	o	7	bcp.r	#	45	38	0.10
	Stornoway ...	29.73	43	NW	7	b	30.05	+.37	39	38	-6	NNW	3	bc	3	oq.c.b	0.8	45	36	0.25
	Wick	29.54	41	NW	8	o r s p	29.97	+.38	39	38	-6	NW	7	o	5	o r s p	#	48	37	0.20
	Nairn	29.71	43	NNW	4	o	30.03	+.37	42	38	-7	W	1	o	1	o	#	51	37	0.12
	Aberdeen ...	29.67	41	NNW	9	bq	29.97	+.30	39	36	-11	NNW	6	bcq	4	bcq.p	1.3	51	39	0.01
	Leith	29.79	44	W	3	b	30.04	+.25	40	38	-12	W	2	bcm	#	b	#	53	38	-
	Shields	29.86	47	NNW	3	bc	30.02	+.08	41	39	-10	W	3	b	2	d.c.bc	#	54	39	-
	Spurn Head ...	29.89	49	NNW	6	b	30.03	-.02	43	41	-1	NNW	4	b	4	bc	#	51	43	-
	York	29.91	47	WSW	3	b	30.07	+.01	41	38	-7	W	1	b	#	b	0.2	54	40	-
	Loughborough ...	30.01	51	WSW	6	c	30.12	-.08	43	41	0	W	1	bc	#	o q.c q.b	#	53	43	-
	Ardrossan ...	29.89	47	W	6	c q p	30.11	+.21	46	45	-5	NNW	4	o	3	c q p	#	51	45	0.01
	Malin Head ...	29.97	48	NW	7	c q	30.15	+.20	47	44	-3	NNW	4	c m	3	c q	#	50	44	-
	Belmullet ...	30.22	48	NNW	4	bc	30.26	+.10	45	44	-7	NW	2	o	#	c.b.bc	#	51	44	0.01
	Donaghadee ...	29.99	47	W	6	b	30.14	+.13	43	42	-8	W	4	b	2	b	#	52	42	-
	Liverpool (Bidston)	30.02	46	W	6	o	30.14	+.02	47	44	-1	NNW	6	o	5	o p	#	52	45	0.05
	Holyhead ...	30.07	49	W	6	b	30.21	+.05	48	46	-3	NW	5	c	4	p a.c.b	#	53	46	0.01
	Parsonstown ...	30.17	45	SW	0	b	30.27	+.08	35	35	-16	SW	0	b	#	o.r.b	0.0	52	35	0.07
	Valencia ...	30.24	52	WSW	2	o m	30.27	-.04	47	46	-5	NNE	1	o	4	r m.o m	0.0	53	46	0.17
	Roche's Point ..	30.22	53	NNW	3	o	30.30	.00	45	44	-7	NW	1	bc	2	o	#	55	44	-
	Pembroke (St. Ann's Hd.)	30.15	53	W	6	r	30.26	-.01	48	45	-3	NNW	5	o q	4	o.r	0.0	52	47	0.05
	Scilly	30.27	52	WSW	4	m	30.26	-.15	51	51	+1	NNW	3	c f	3	m	0.0	55	49	0.25
	Prawle Point ...	30.22	52	WSW	4	o	30.26	-.15	45	44	-2	NW	2	c	1	o m r	#	52	44	0.02
	Jersey (St. Aubin's)	30.29	51	W	4	o q	30.19	-.25	53	51	+6	NNW	2	b c m	2	o p	#	53	46	0.12
	Hurst Castle ...	30.14	52	W	4	o	30.19	-.16	46	44	-2	NNW	2	c m	2	o	#	52	45	-
	Dungeness ...	30.06	51	WSW	5	o	30.11	-.20	42	41	-2	NNW	3	c	2	c.o	#	51	42	-
	North Foreland	30.09	48	WSW	5	o	30.08	-.23	45	42	+6	W	5	b c	3	o q.o	#	49	38	0.02
	London (Brixton) ...	30.07	50	W	3	o q p	30.15	-.15	44	41	+5	W	1	b c	#	c o q p.b	0.0	51	39	0.01
	Oxford	30.07	50	W	2	b	30.17	-.11	43	42	+2	NW	2	b c	#	c.b	#	52	41	-
	Cambridge ...	30.00	50	W	4	b	30.10	-.13	43	41	+3	NW	2	b	#	o.b	0.0	51	38	0.03
	Yarmouth ...	29.91	49	W	4	b c	30.03	-.14	42	40	+2	NNW	4	b c	5	c p.b c	#	50	38	-
Germany & Holland	Cuxhaven ...	29.69	43	WSW	7	r	29.51	-.57	43	42	+2	NW	8	o q h r	#	o	#	45	39	0.12
	Berlin	29.74	40	W	3	r	29.42	-.73	40	38	+2	NNW	5	r	#	r	#	43	38	0.16
	Wiesbaden ...	#	#	#	#	#	29.84	-.51	45	41	+12	NW	4	b c	#	#	#	45	33	0.12
	Munich	30.15	41	W	6	o	29.86	-.50	41	39	+3	W	8	o	#	o	#	43	37	0.04
	The Helder ...	29.80	51	W	5	o	29.84	-.29	47	47	0	NW	6	b c	6	o	#	53	43	0.04
Belgium. France &	Brussels ...	#	#	#	#	#	30.02	-.32	44	41	+7	WNW	3	c	#	r	#	48	?	0.19
	Cape Gris Nez ...	?	53	W	7	o	?	?	49	44	+3	NNW	5	c	4	o	#	52	45	0.08
	Paris	30.29	45	SW	2	o	30.12	-.28	50	48	+10	NNW	2	m	#	o	#	50	40	0.04
	Brest	30.38	52	NNW	3	o	30.26	-.22	54	53	+6	NW	2	o	3	o	#	54	48	-
	Lorient	30.39	52	NNW	5	o	30.28	-.20	54	54	+5	NW	4	o	5	o	#	54	45	0.04
	Rochefort ...	30.39	50	NE	3	o	30.28	-.13	53	52	+3	NW	4	r	#	c.o	#	54	45	0.12
	Belfort	30.28	41	E	3	m	30.10	-.29	38	38	-2	SW	6	b	#	m	#	43	37	0.08
	Lyons	30.39	45	N	1	m	30.27	-.13	40	40	-2	SSE	1	b	#	m	#	47	40	0.04
	Nice	30.10	50	E	1	b	30.01	-.19	44	40	-1	E	1	c	2	b	#	54	43	-
	Perpignan ...	30.30	52	NW	2	b	30.25	-.09	50	43	-4	W	5	c	#	b	#	60	49	-
	Biarritz ...	30.39	54	NNE	2	o	30.33	-.07	55	50	+1	W	3	o	2	o	#	55	48	-
Peninsula.	Corunna ...																#			
	Lisbon	30.39	53	N	3	b	30.39	-.03	45	43	-2	NNE	3	b	#	b	#	61	45	-
	Azores (P. Delgada)	30.54	61	ENE	2	o	30.52	-.05	59	57	-2	NE	2	o	2	o	#	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 0.6 hrs;

WEATHER CHARTS

FOR Thursday, 15th December, 1898

BAROMETER, WIND AND SEA.

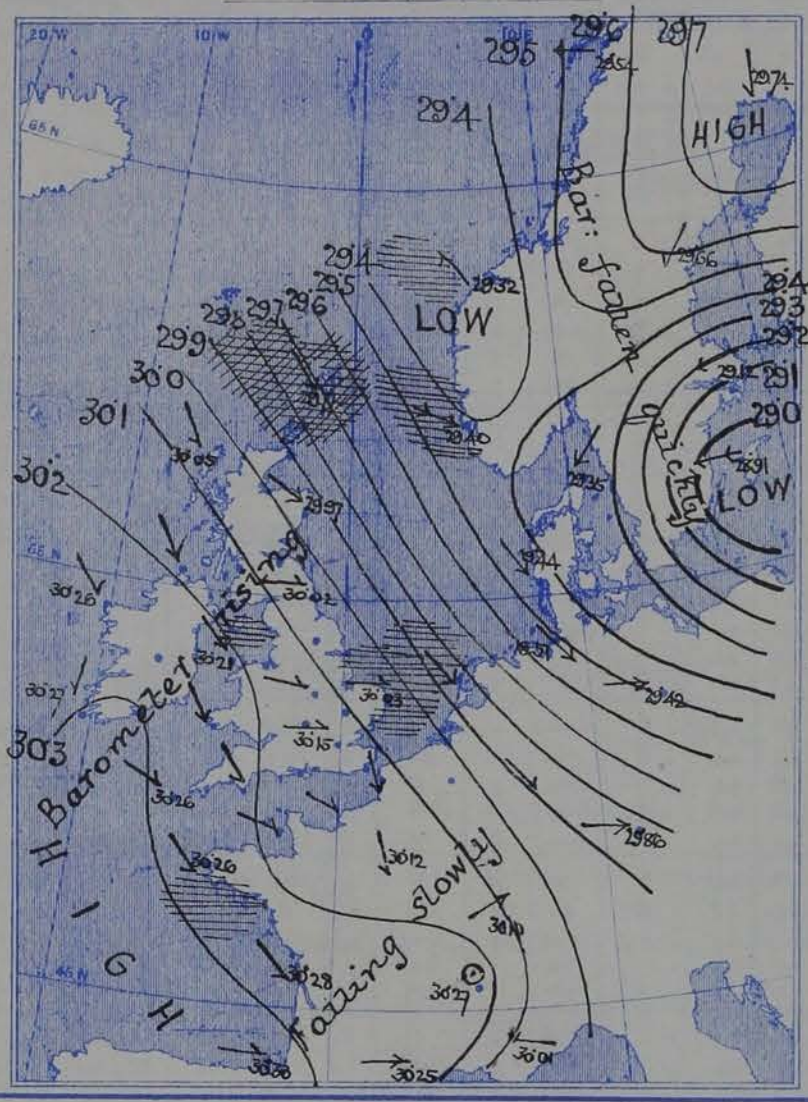
BAROMETER—Isobars are drawn for each tenth of an inch.

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* ▬

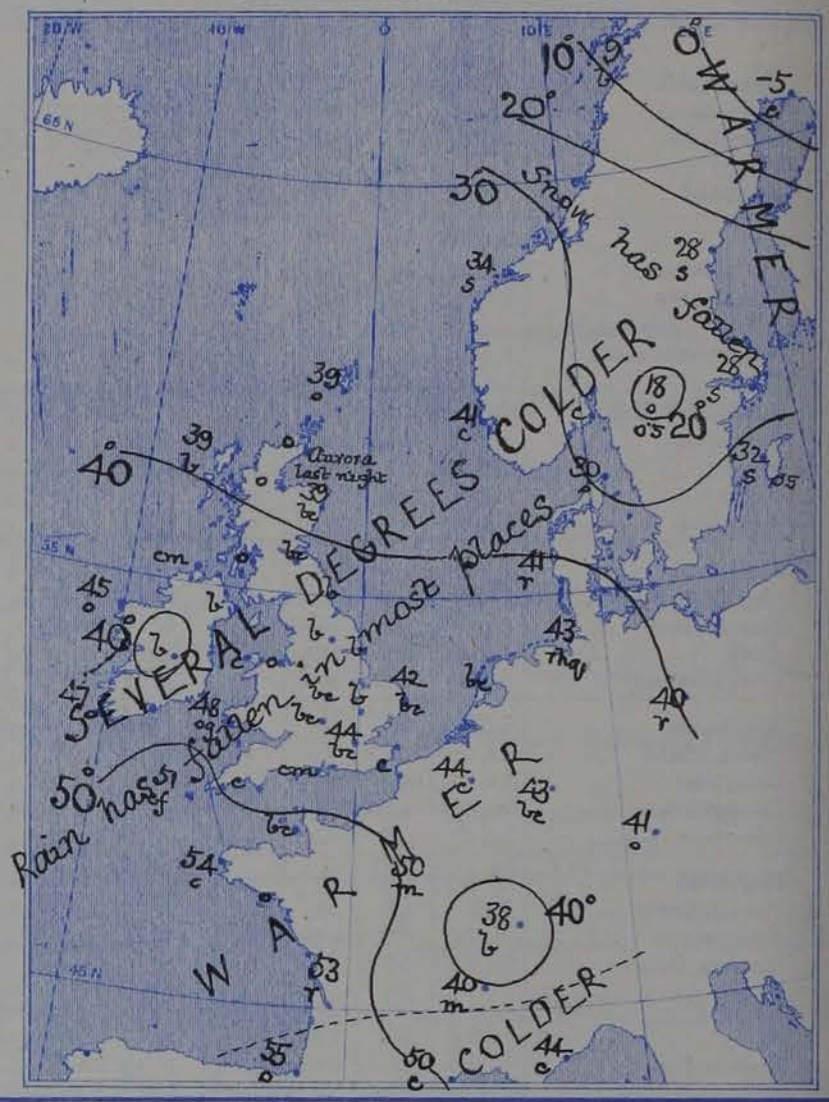


TEMPERATURE & WEATHER.

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 DECEMBER.

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 · 656	39 · 8	38 · 3	42 · 8	35 · 5	53	1890	19	1877	4 · 27	—	—
Stornoway	29 · 688	39 · 6	38 · 7	43 · 3	34 · 4	54	1880	15	1880	5 · 64	25 · 4	13
Wick	29 · 699	38 · 3	37 · 1	42 · 4	33 · 0	55	1889, 94	10	1882	3 · 17	—	—
Nairn	29 · 727	37 · 2	35 · 7	42 · 2	32 · 4	57	1888, 90, 91, 92, 94	10	1882	1 . 94	—	—
Aberdeen	29 · 758	37 · 0	35 · 3	42 · 0	32 · 8	58	1873	6	1882	3 · 11	39 · 9	20
Leith	29 · 797	38 · 7	37 · 2	44 · 1	33 · 7	58	1873, 98	6	1882	1 · 89	—	—
Shields	29 · 836	38 · 4	37 · 0	43 · 1	33 · 9	59	1873	10	1878, 79	2 · 32	—	—
Spurn Head	29 · 870	38 · 9	37 · 8	42 · 6	35 · 4	55*	1888	19*	1891	2 · 05	—	—
York	29 · 886	36 · 6	35 · 6	42 · 5	32 · 4	59	1888, 91	0	1879	2 · 21	26 · 5	12
Loughborough	29 · 922	36 · 4	35 · 4	43 · 0	32 · 3	59*	1888	7*	1890	2 · 24	—	—
Ardrossan	29 · 809	40 · 3	39 · 1	44 · 7	36 · 2	55	1880	15	1879	3 · 66	—	—
Malin Head	29 · 768	41 · 3	39 · 6	45 · 2	38 · 1	—	—	—	—	—	—	—
Belmullet	29 · 822	42 · 8	40 · 9	46 · 9	39 · 0	—	—	—	—	5 · 36	—	—
Donaghadee	29 · 840	40 · 4	39 · 5	45 · 8	36 · 3	56	1885, 88, 94	20	1879	2 · 85	—	—
Holyhead	29 · 876	42 · 8	41 · 2	46 · 5	39 · 2	56	1872, 88	25	1874	3 · 83	—	—
Liverpool	29 · 891	39 · 0	37 · 3	43 · 8	35 · 7	59	1891	13	1878	2 · 62	—	—
Parsonstown	29 · 891	38 · 3	37 · 0	45 · 1	33 · 5	58	1877	8	1878	3 · 09	45 · 0	20
Valencia	29 · 900	45 · 0	42 · 9	49 · 9	40 · 4	57	1884, 88	24	1886	5 · 93	43 · 9	19
Roche's Point	29 · 908	43 · 5	42 · 1	48 · 2	39 · 4	58	1873	25	1882	5 · 16	—	—
Pembroke	29 · 914	43 · 9	42 · 6	47 · 0	40 · 5	55	1876	19	1890	3 · 96	46 · 0	20
Scilly	29 · 950	47 · 4	45 · 5	49 · 8	43 · 6	57	1876	30	1890	4 · 00	—	—
Prawle Point	29 · 970	42 · 8	41 · 4	47 · 3	38 · 5	55*	1881, 88	25*	1885, 87, 90	3 · 77	—	—
Jersey	29 · 993	43 · 5	41 · 7	47 · 7	39 · 7	61	1876	19	1871	3 · 76	62 · 6	25
Hurst Castle	29 · 962	40 · 9	40 · 1	45 · 9	36 · 7	58	1876	19	1890	2 · 77	—	—
Dover	29 · 954	40 · 0	38 · 9	44 · 7	35 · 9	56	1880	12	1890	2 · 79	—	—
LONDON	29 · 956	38 · 0	36 · 8	44 · 3	34 · 0	58	1873, 88, 91	11	1878	2 · 11	11 · 8†	5†
Oxford	29 · 956	37 · 1	36 · 0	43 · 2	33 · 6	58	1888	6	1878	2 · 10	41 · 8	18
Cambridge	29 · 941	36 · 4	35 · 6	43 · 2	31 · 6	59	1878, 88	0	1879	1 · 82	41 · 2	18
Yarmouth	29 · 915	38 · 1	37 · 1	42 · 2	33 · 8	56	1873	15	1879	2 · 53	—	—

* 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, 30·39 ins: at Skibbereen; 30·2 ins: and upwards in an anticyclone extending from the Spanish Peninsula over the western parts of France and the United Kingdom.

Lowest, 29·0 ins: and less, in a deep depression with its centre near Wick; 29·4 ins: and less in another disturbance lying off the west of Norway.

Gradients steep over the south of Sweden, and rather steep over the North Sea, Germany, and the Netherlands; slight elsewhere.

Barometer rising in our Islands and also over Norway, Denmark, and the Netherlands; falling in Sweden, Germany and France.

TEMPERATURE

Highest, 55° at Biarritz, 54° at Brest and Pointe, 53° at Jersey and Rochefort, 51° at Scilly, and 50° at Paris and Perpignan.

Lowest, -5° F. at Haparanda, +9° at Bodö, 18° at Roldtad and 24° at Fænder; lowest in our Islands 35° at Parsontown.

During yesterday the thermometer rose to 50° and upwards in nearly all parts of the United Kingdom, and to 55° at Rochefort and Scilly.

WIND

NW. over Western Europe generally; strong in force on several parts of our own north and northwest coasts, and blowing a gale on the eastern shores of the North Sea.

W. in Germany, with a gale at Munich; strong to a gale from the E. or NE. in the south of Sweden, and light to fresh from the same quarters in the northern parts of Scandinavia.

WEATHER

Fine over the greater part of the United Kingdom, but dull at most of our extreme western and northern stations.

Cloudy or dull over the western and northern parts of the Continent with rain in Denmark and North Germany, as well as at Rochefort; snow is falling at several of the Scandinavian stations.

A little rain fell yesterday in the west, south and extreme north of our Islands, as well as at many of the Continental stations. Aurora was seen last night at Aberdeen.

SEA

High at Lumburgh Head, and rather rough in the North Sea generally, but moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The large depression noticed yesterday in the north has travelled southeastwards across Scandinavia, while a secondary disturbance which appeared in its rear has moved eastwards to Norway. The barometric rise is now extending again over our own northwest coasts, and it is not unlikely that in the course of the ensuing twenty-four hours another disturbance will appear in the north.

FORECASTS

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

DISTRICTS.		FORECASTS.
↓ 0	SCOTLAND NORTH	Strong NW. winds, moderating and backing later, cloudy, some rain or sleet.
↓ 1	SCOTLAND EAST	
↓ 2	ENGLAND N.E.	Same as No. 5.
↓ 3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	NW. to W. winds; fine at first, cloudy later, possibly some showers.
↓ 6	SCOTLAND WEST	NW. to W. winds, fresh or strong; cloudy, some rain.
↓ 7	ENGLAND N.W.	
8	ENGLAND S.W.	NW. winds, light or moderate; fair generally.
↓ 9	IRELAND NORTH	Same as Nos 6 and 7.
10	IRELAND SOUTH	Same as No 8
	WARNINGS	At 7·20 pm yesterday to districts 2, 3, and 7. "Hoist North Cone". The signals are also flying in districts 0, 1, 6, and 9.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29·87	45	42	W	8	c	4
Sumburgh Head	29·81	43	39	WNW	8	r	7
Stornoway	29·71	44	42	NW	6	o	6
Aberdeen	29·63	44	39	WNW	9	bca	5
Shields	29·82	52	48	WSW	5	c	2
Ardrossan	29·92	51	50	W	6	cq	4
Malin Head ...	29·96	48	44	NW	6	c	5
Belmullet	30·16	49	46	WNW	3	b	*
Holyhead	30·08	53	51	W	5	c	4

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30·25	53	52	WSW	4	rm	4
Scilly	30·33	52	52	WSW	4	m	3
Jersey	30·38	51	47	WNW	4	o	3
Hurst Castle ...	30·22	51	49	WSW	5	o	3
Dungeness ...	30·16	50	48	WSW	5	c	4
North Foreland	30·12	49	45	WSW	4	o	3
London (Westminster)	30·14	50	48	SW	3	fp	*
Yarmouth ...	29·96	47	45	WSW	4	fp	4
Rochefort ...	30·41	53	50	NE	3	c	*

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

Weather in morning cloudy or dull in our Islands and the western, northern, and central parts of the Continent generally; rain falling at several of our more western stations and also in the Shetlands and west of Norway, and snow at St. Petersburg. Fine in the extreme northern parts of Russia and Scandinavia, and also over Southern Europe generally, but dull over northern Italy, with rain at Florence. A little rain falling later at most of our own western, southern, and extreme northern stations, as well as in the western parts of the Continent generally. Aurora seen at Aberdeen.

Temperature risen considerably in our Islands, but fallen at most of the Continental stations. Morning readings highest 61° at Malta, 59° at La Calle, and 57° at Pauguinaire and Brindisi; above 50° over the Mediterranean generally, and also at many of our more western and northern stations. Lowest −21° F. at Archangel, −18° at Haparanda, and −11° at Ulleaborg; below the freezing point over nearly the whole of Scandinavia and northern Russia. Rising during day to between 50° and 55° in nearly all parts of our Islands; exceeding 55° in the south of France, and reaching 60° at Perpignan and 61° at Lisbon.

Wind W. or SW. over northwestern Europe generally, and strong to a gale in force in the north of Scotland; strong from the E.ward or SE.ward in the west of Norway. N. or NE. over Sweden and northern Russia, with a gale in Finland and the Baltic Provinces; W. (SW & NW) over Germany, Austria, and the south of Russia. Light from the N.ward (NW to NE) over the greater part of France, Spain and Italy. Subsequently increasing to a gale on most part of our own northern coasts, and also on the eastern shores of the North Sea.

Barometer highest 30·4 in. and upwards over Spain, the Bay of Biscay, and the greater part of France; 30·2 in. and upwards in an anticyclone embracing all the more southwestern parts of Europe. Lowest 29·0 in. and less. in a depression over Central Russia; 29·4 in. and less. in another disturbance lying to the westward of Norway. Latter system subsequently moving southeastwards across Scandinavia; small secondary appearing in its rear and moving eastwards

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, 16th December, 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 ...	29.85	1	SW	0	c	29.89	+.15	3	3	+ 8	SW	0	0	*	c	*	3	-17	-
	Hernösand ...	29.99	4	NE	2	0	30.04	+.38	-9	-9	- 19	SW	0	b	*	c	*	14	?	-
	Stockholm ...	29.74	19	NE	6	0	30.06	+.81	13	13	= 0	NNW	2	0	*	0	*	30	10	-
	Wisby	29.66	22	NNE	8	S	30.01	+1.10	22	20	- 10	NNE	4	0	*	S	*	34	19	0.20
	Karlstad ...														*		*	*	*	
	Bodö	30.01	14	E	2	b	29.91	+.37	18	16	+ 9	E	4	?	1	b	*	18	9	-
	Christiansund ...	29.98	31	ESE	3	0	29.95	+.63	26	24	- 8	E	4	0	4	0	*	34	25	0.04
	Skudesnaes ...	29.92	37	NNE	6	b	30.00	+.60	37	33	- 4	SSE	2	0	3	c,b	*	43	32	*
	Færder (Christiania Fjord)	29.91	20	NNE	4	0	30.12	+.70	19	17	- 5	E	2	bc	3	0	*	24	16	-
	Skagen (The Scaw)	29.89	24	NE	3	0	30.13	+.78	27	27	- 3	ESE	1	0	0	0	*	30	25	-
	Fanö	29.94	31	NNE	2	c	30.14	+.70	30	28	- 11	NNE	2	c	*	c	*	43	30	0.04
British Islands.	Sumburgh Head	30.03	38	N	3	0	29.89	-.18	46	46	+ 7	WSW	3	r	5	bc.o	*	46	38	0.40
	Stornoway ...	30.09	44	E	1	0	29.79	-.26	51	50	+ 12	W	3	0	3	0	0.4	51	36	0.12
	Wick	30.08	48	NW	2	bc	29.74	-.23	50	48	+ 11	W	1	bc	2	bc	*	51	39	0.15
	Nairn	30.15	41	W	1	c	29.80	-.23	52	50	+ 10	W	3	c	2	c	*	52	36	0.02
	Aberdeen ...	30.18	37	W	2	0	29.83	-.14	52	49	+ 13	WSW	3	c	3	bcq,o,p	1.9	52	36	0.02
	Leith	30.21	47	SW	0	b	29.94	-.10	51	50	+ 11	W	5	od	*	b	*	51	38	-
	Shields	30.21	39	W	2	bc	30.02	.00	46	45	+ 5	SW	2	0	2	b,bc	*	46	35	-
	Spurn Head ...	30.19	43	NW	4	b	30.12	+.09	43	42	0	WSW	3	0	4	b,o	*	45	30	-
	York	30.21	41	NW	1	b	30.13	+.06	44	43	+ 3	SSW	1	0	*	b	0.0	48	35	-
	Loughborough ...	30.25	43	WNW	1	b	30.23	+.11	42	41	- 1	SW	2	ow	*	bc.b,o	*	49	33	-
	Ardrossan ...	30.22	48	NNE	2	bm	30.00	-.11	51	51	+ 5	WSW	3	opm	3	b,bm	*	51	43	0.07
	Malin Head ...	30.20	45	S	2	bm	30.02	-.13	51	51	+ 4	W	5	rm	3	o,bm	*	52	43	0.02
	Belmullet ...	30.22	50	S	4	0	30.16	-.10	52	52	+ 7	WSW	5	o	*	b,o	*	52	44	0.03
	Donaghadee ...	30.25	43	W	4	b	30.07	-.07	51	51	+ 6	SW	4	c	2	b	*	51	41	-
	Liverpool (Bidston)	30.28	47	WNW	3	0	30.18	+.04	49	47	+ 2	SSW	1	0	2	cm.o	*	49	44	-
	Holyhead ...	30.29	46	W	1	b	30.20	-.01	51	50	+ 3	SW	3	ogm	2	c,b	*	51	44	0.03
	Parsonstown ...	30.29	41	SW	0	b	30.22	-.05	51	50	+ 16	SW	0	od	*	b	5.0	51	34	0.02
	Valencia ...	30.29	52	SSE	2	0	30.29	+.02	51	51	+ 4	S	1	om	4	om	0.0	52	46	0.03
	Roche's Point ...	30.32	50	WSW	1	0	30.32	+.02	51	51	+ 6	W	3	rm	3	o,m	*	52	45	0.01
	Pembroke (St. Ann's Hd.)	30.31	47	NW	1	b	30.26	.00	53	52	+ 5	W	6	fg	4	b	3.1	54	45	0.02
	Scilly	30.34	52	NNW	2	c	30.33	+.07	52	52	+ 1	WSW	3	f	3	c	1.4	54	48	0.05
	Prawle Point ...	30.34	44	W	3	bc	30.34	+.08	49	48	+ 4	WSW	3	omr	2	c.m	*	52	41	-
	Jersey (St. Aubin's)	30.33	50	NW	2	cq	30.38	+.19	50	48	- 3	NW	2	o	2	c.cq	*	53	44	-
	Hurst Castle ...	30.29	44	NNW	1	bm	30.31	+.12	45	43	- 1	W	2	cm	2	bc.b	*	51	40	-
	Dungeness ...	30.23	40	NNW	3	b	30.30	+.19	41	40	- 1	NNW	2	c	1	bc.b	*	48	34	-
	North Foreland	30.24	45	NW	3	b	30.29	+.21	39	38	- 6	SW	2	m	1	b	*	47	37	-
	London (Brixton) ...	30.27	45	NNW	2	bm	30.28	+.13	40	39	- 4	W	1	om	*	bm.b	1.0	49	35	-
	Oxford	30.30	42	NW	2	0	30.27	+.10	43	42	0	SW	3	c	*	c	*	50	37	-
	Cambridge ...	30.25	43	NW	2	0	30.25	+.15	39	38	- 4	SW	2	om	*	bc.o	3.3	49	33	-
	Yarmouth ...	30.14	43	NNW	4	bc	30.20	+.17	38	37	- 4	WSW	3	bcm	4	b.bc	*	45	34	-
Germany & Holland.	Cuxhaven ...	29.78	42	NW	8	r	30.13	+.62	33	33	- 10	N	2	b	*	qrh	*	45	32	0.16
	Berlin	?	37	NW	4	0	30.05	+.63	28	26	- 12	NW	3	0	*	0	*	45	28	0.04
	Wiesbaden ...	*	*	*	*	*	30.21	+.37	42	39	- 3	NW	3	c	*	*	*	46	39	0.24
	Munich	29.99	37	W	7	0	30.12	+.26	33	32	- 8	W	7	S	*	0	*	43	32	0.20
	The Helder ...	30.06	44	NNW	6	c	30.17	+.33	45	42	- 2	NW	1	c	2	c	*	48	43	-
Belgium. France &	Brussels ...	*	*	*	*	*	30.32	+.30	37	37	- 7	SSW	2	0	*	0	*	47	35	-
	Cape Gris Nez ...	?	48	N	5	b	?	?	46	43	- 3	W	2	m	3	b	*	52	41	-
	Paris	30.26	44	NW	2	b	30.37	+.25	38	37	- 12	SW	2	m	*	b	*	51	37	-
	Brest	30.35	51	N	1	0	30.39	+.13	50	50	- 4	NW	1	0	2	0	*	54	48	-
	Lorient	30.36	52	NNW	2	bc	30.43	+.15	48	46	- 6	SW	0	0	4	bc	*	57	45	-
	Rochefort ...	30.30	53	NNW	4	bc	30.39	+.11	43	41	- 10	ENE	2	b	*	r.bc	*	55	41	0.08
	Belfort	30.14	39	W	1	m	30.32	+.22	40	36	+ 2	SW	2	m	*	m	*	42	34	0.08
	Lyons	30.25	42	NNW	1	r	30.39	+.12	39	38	- 1	NNW	1	c	*	r	*	44	38	0.08
	Nice	29.86	50	SW	0	c	29.92	-.09	44	43	0	E	4	b	2	c	*	59	43	-
	Perpignan ...	30.21	54	NW	4	b	30.21	-.03	54	49	+ 4	NW	4	0	*	b	*	54	50	-
	Biarritz ...	30.32	54	W	4	r	30.34	+.01	53	52	- 2	E	3	0	2	r	*	55	48	0.12
Penin-sula.	Corunna ...																*			
	Lisbon	30.36	50	N	3	b	30.36	-.03	47	43	+ 2	NNE	3	b	*	b	*	57	45	-
	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 1.8 hrs;

WEATHER CHARTS

FOR Friday, 16th December, 1898

BAROMETER, WIND AND SEA.

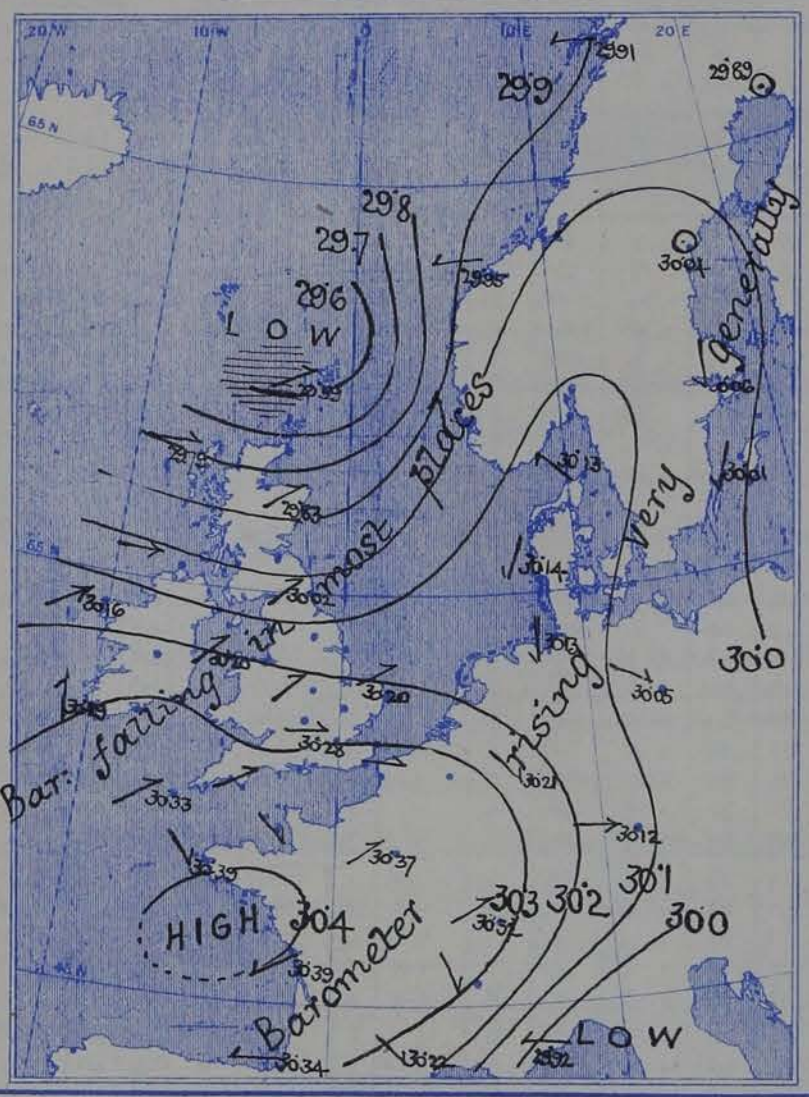
BAROMETER—Isobars are drawn for each tenth of an inch.

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

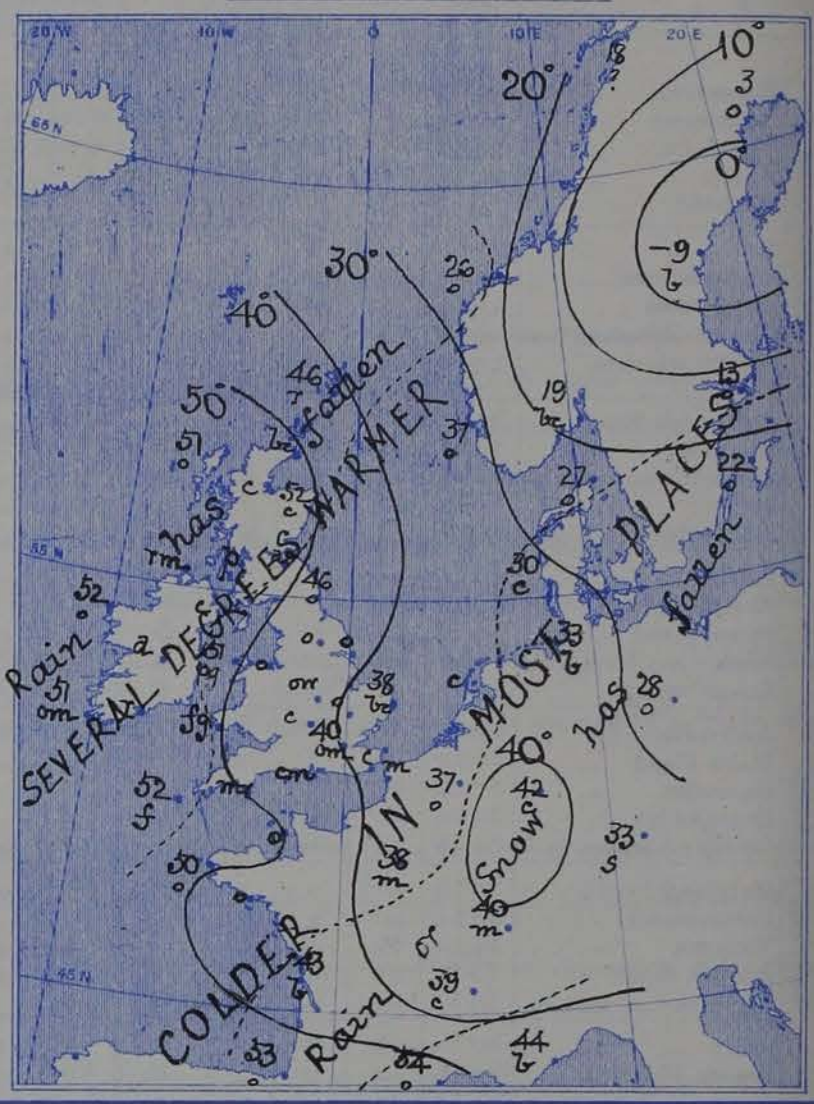


TEMPERATURE & WEATHER.

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 DECEMBER.*

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 · 656	39 · 8	38 · 3	42 · 8	35 · 5	53	1890	19	1877	4 · 27	—	—
Stornoway	29 · 688	39 · 6	38 · 7	43 · 3	34 · 4	54	1880	15	1880	5 · 64	25 · 4	13
Wick	29 · 699	38 · 3	37 · 1	42 · 4	33 · 0	55	1889, 94	10	1882	3 · 17	—	—
Nairn	29 · 727	37 · 2	35 · 7	42 · 2	32 · 4	57	1888, 90, 91, 92, 94	10	1882	1 · 94	—	—
Aberdeen	29 · 758	37 · 0	35 · 3	42 · 0	32 · 8	58	1873	6	1882	3 · 11	39 · 9	20
Leith	29 · 797	38 · 7	37 · 2	44 · 1	33 · 7	58	1873, 88	6	1882	1 · 89	—	—
Shields	29 · 836	38 · 4	37 · 0	43 · 1	33 · 9	59	1873	10	1878, 79	2 · 32	—	—
Spurn Head	29 · 870	38 · 9	37 · 8	42 · 6	35 · 4	55*	1888	19*	1891	2 · 05	—	—
York	29 · 886	36 · 6	35 · 6	42 · 5	32 · 4	59	1888, 91	0	1879	2 · 21	26 · 5	12
Loughborough	29 · 922	36 · 4	35 · 4	43 · 0	32 · 3	59*	1888	7*	1890	2 · 24	—	—
Ardrossan	29 · 809	40 · 3	39 · 1	44 · 7	36 · 2	55	1880	15	1879	3 · 66	—	—
Malin Head	29 · 768	41 · 3	39 · 6	45 · 2	38 · 1	—	—	—	—	—	—	—
Belmullet	29 · 822	42 · 8	40 · 9	46 · 9	39 · 0	—	—	—	—	5 · 36	—	—
Donaghadee	29 · 840	40 · 4	39 · 5	45 · 8	36 · 3	56	1885, 88, 94	20	1879	2 · 85	—	—
Holyhead	29 · 876	42 · 8	41 · 2	46 · 5	39 · 2	56	1872, 88	25	1874	3 · 83	—	—
Liverpool	29 · 891	39 · 0	37 · 3	43 · 8	35 · 7	59	1891	13	1878	2 · 62	—	—
Parsonstown	29 · 891	38 · 3	37 · 0	45 · 1	33 · 5	58	1877	8	1878	3 · 09	45 · 0	20
Valencia	29 · 900	45 · 0	42 · 9	49 · 9	40 · 4	57	1884, 88	24	1886	5 · 93	43 · 9	19
Roche's Point	29 · 908	43 · 5	42 · 1	48 · 2	39 · 4	58	1873	25	1882	5 · 16	—	—
Pembroke	29 · 914	43 · 9	42 · 6	47 · 0	40 · 5	55	1876	19	1890	3 · 96	46 · 0	20
Scilly	29 · 950	47 · 4	45 · 5	49 · 8	43 · 6	57	1876	30	1890	4 · 00	—	—
Prawle Point	29 · 970	42 · 8	41 · 4	47 · 3	38 · 5	55*	1881, 88	25*	1885, 87, 90	3 · 77	—	—
Jersey	29 · 993	43 · 5	41 · 7	47 · 7	39 · 7	61	1876	19	1871	3 · 76	62 · 6	25
Hurst Castle	29 · 962	40 · 9	40 · 1	45 · 9	36 · 7	58	1876	19	1890	2 · 77	—	—
Dover	29 · 954	40 · 0	38 · 9	44 · 7	35 · 9	56	1880	12	1890	2 · 79	—	—
LONDON	29 · 956	38 · 0	36 · 8	44 · 3	34 · 0	58	1873, 88, 91	11	1878	2 · 11	11 · 8†	5†
Oxford	29 · 956	37 · 1	36 · 0	43 · 2	33 · 6	58	1888	6	1878	2 · 10	41 · 8	18
Cambridge	29 · 941	36 · 4	35 · 6	43 · 2	31 · 6	59	1878, 88	0	1879	1 · 82	41 2	18
Yarmouth	29 · 915	38 · 1	37 · 1	42 · 2	33 · 8	56	1873	15	1879	2 · 53	—	—

* 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, 3043 in: at Lorient; 303 in: and upwards in an anticyclone lying over the Bay of Biscay, the greater part of France and the extreme south of our Islands.
Lowest, 29·6 in: and less, in a depression lying near the Shetlands; 30·0 in: and less, in another disturbance over the Gulf of Genoa.
Gradients slight generally, but rather steep between the Shetlands and the Norwegian coasts and also over the southeast of France.
Barometer falling over the greater part of our Islands and also in the east of Norway, rising elsewhere.

TEMPERATURE

Highest, (1) 54° at Biarritz; (2) 53° at Pembroke, and 52° at Nairn, Aberdeen, Belmullet and Scilly.
Lowest, −9° F. at Haparanda, +3° at Haparanda, 13° at Stockholm, and 18° at Bodö; lowest in our Islands 38° at Yarmouth.
Ground frost occurred last night over the northern and central parts of the United Kingdom; at Loughborough the thermometer on the grass fell to 28°.

WIND

Light to fresh from the W.ard or SW.ward in our Islands, and from the E.ward or SE.ward on the Norwegian coasts.
E. over the southern parts of France; Calm in the Gulf of Bothnia, N. over Denmark and the south of Sweden; NW. or W. in Germany.

WEATHER

Cloudy or dull over Western Europe as a whole, with fog at the mouths of the English and Bristol Channels, and slight rain at several of our western and northern stations. Snow is falling at Munich.
Since yesterday morning a little rain has fallen in the east and extreme north of our Islands, as well as in Denmark, Germany, and many parts of France.

SEA

Moderate to smooth generally, but rather rough at Lerwick Head.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The new depression which has advanced to the north of Scotland is apparently of no great depth, but will probably occasion freshening winds from the W.ward and NW.ward and rainy weather on our north and northwest coasts. Slight rain is probable in some of our southern districts.

FORECASTS

For the 24 hours ending at NOON on 17th DECR 1898

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	W. to NW. winds, freshening considerably; cloudy, some rain.
1	SCOTLAND EAST	
2	ENGLAND N.E.	SW. to W. winds, freshening; cloudy, some rain.
3	ENGLAND EAST	SW. and W. winds, light or moderate; cloudy, slight rain locally.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	
6	SCOTLAND WEST	Same as Nos 0 & 1.
7	ENGLAND N.W.	Same as No 2.
8	ENGLAND S.W.	W. winds, moderate or fresh; dull, misty, some rain.
9	IRELAND NORTH	Same as Nos 0 & 1.
10	IRELAND SOUTH	Same as No 2.

WARNINGS

At 7·10 pm yesterday to districts 1, 2, and 3 "Lower Cone". The signals are still flying in district 7 and part of 9.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29·66	42	38	NW	9	c	5
Sumburgh Head	29·95	39	35	NW	4	bc	7
Stornoway	30·11	43	42	W	2	o	2
Aberdeen	30·11	42	38	WNW	4	bcq	3
Shields	30·16	44	40	W	3	b	2
Ardrossan	30·19	48	47	WNW	3	bc	2
Malin Head ...	30·21	49	46	WNW	2	o	3
Belmullet	30·23	51	49	SSW	1	b	*
Holyhead	30·28	49	46	NW	4	c	3

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30·28	52	52	SSE	1	om	4
Scilly	30·32	51	49	NNW	2	c	3
Jersey	30·31	52	49	NW	3	c	3
Hurst Castle ...	30·24	51	47	NW	2	bm	1
Dungeness ...	30·18	48	45	NW	3	bc	2
North Foreland	30·18	46	42	WNW	4	b	3
London (Westminster)	30·21	49	44	NW	2	bc	*
Yarmouth ...	30·09	45	42	NNW	3	b	4
Rochefort ...	30·29	55	54	NNW	4	r	*

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

Weather in morning fine over the greater part of the United Kingdom, but dull on our extreme western and northern coasts. Cloudy or dull over the greater part of the Continent, with rain in many parts of France, Denmark, Germany, and Austria; snow falling at several of the Scandinavian stations, as well as at St Petersburg, Breslau and Lemberg. Fine over the Spanish Peninsula and the extreme south of France. A little rain falling late in the west and extreme north of our Islands; sky clearing at many of the French stations.

Temperature fallen in our Islands, and the northern and eastern parts of the Continent; changed irregularly elsewhere. Morning readings highest 60° at Malta, 59° at La Calle and 57° at Sanguinaire; above 50° at most of the Mediterranean stations, as well as in the west of France, and at Scilly and the Channel Islands. Lowest −6° F. at Uleaborg, −5° at Haparanda, −2° at Helsingfors, and +2° at Kuopio; considerably below the freezing point in nearly all parts of Russia and Scandinavia, and very little above it in Central Ireland. Rising during day to 50° and upwards on several parts of our own western and southern coasts; exceeding 55° in the west and south of France, and reaching 59° at Nice.

Wind NW^ly over nearly the whole of western and southern Europe. Strong in force on many parts of our own northern coasts, and blowing a gale on the eastern shores of the North Sea. Strong from the W^wd over Germany and Austria; light from the SW^wd in the south of Russia; N^ly or NE^ly over northern Russia and Sweden, with a gale in the south of the latter country. Subsequently backing to the S^wd on our own extreme western coasts, no important change occurring elsewhere.

Barometer highest 30·4 in: and upwards over Spain; 30·2 in: and upwards in an anticyclone extending thence over the western parts of France and the United Kingdom. Lowest 28·9 in: and less, in a deep depression with its centre over the northern part of the Baltic; 29·4 in: and less, in a shallower system over the west of Norway. Depressions subsequently moving southeastward: but new disturbance beginning to approach our own northern 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 Saturday, 17th December, 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 ...	29·68	-18	NE	0	b	29·46	-·43	-6	-6	-9	N	2	f	*	b	*	5	-24	-
	Hernösand ...														*		*			
	Stockholm ...	29·96	12	NE	0	b	29·58	-·48	25	24	+12	W	6	0	*	b	*	25	10	0·04
	Wisby	29·99	22	SSE	4	S	29·67	-·34	31	31	+9	NW	4	0	*	S	*	31	18	0·08
	Karlstad ...	29·82	19	SSW	6	S	29·67		35	?		SSW	2	bc	*	S	*	*	*	0·04
	Bodö	29·35	23	E	2	b	29·24	-·69	20	19	+2	E	4	bc	1	b	*	25	16	-
	Christiansund ...	29·43	40	W	8	S	29·54	-·41	37	36	+11	W	8	c	6	S	*	40	26	0·12
	Skudesnaes ...	29·74	44	W	4	bc	29·84	-·16	44	41	+7	NW	6	bc	4	S,bc	*	45	32	*
	Færder (Christiania Fjord)	29·76	33	SSW	6	0	29·71	-·41	35	32	+16	W	5	b	3	0	*	38	19	-
	Skagen (The Scaw)	29·73	35	SW	5	0	29·79	-·34	41	38	+14	NW	5	bc	1	0	*	41	27	-
	Fanö	29·85	44	WNW	4	c	30·02	-·12	42	40	+12	WNW	4	bc	*	c	*	45	28	0·12
	Sumburgh Head	29·76	43	NW	5	b	29·79	+·20	40	39	-6	WNW	5	r	6	bc,b	*	49	38	0·16
	Stornoway ...	29·98	43	WNW	3	0	29·98	+·19	42	41	-9	WNW	3	0	3	0	0·0	51	38	0·08
	Wick	29·93	45	W	3	c	29·95	+·21	37	36	-13	W	3	c	2	c	*	52	35	0·05
	Nairn	30·01	46	NW	1	c	30·02	+·22	43	40	-9	W	1	0	1	c	*	54	38	-
	Aberdeen ...	29·99	45	NE	2	cp	30·05	+·22	41	38	-11	SW	2	cg	2	rg,cp	0·1	55	40	0·02
BRITISH ISLANDS.	Leith	30·03	50	NE	0	0	30·10	+·16	45	43	-6	W	1	om	*	0	*	54	43	-
	Shields	30·08	53	WSW	3	0	30·13	+·11	46	45	0	WSW	2	0	2	0	*	56	45	-
	Spurn Head ...	30·08	50	W	5	b	30·18	+·06	48	47	+5	SW	1	0	2	cm,r	*	51	43	0·04
	York	30·10	53	W	1	0	30·20	+·07	47	46	+3	SW	1	0	*	o,c,o	0·2	54	43	-
	Loughborough ...	30·18	53	WNW	2	0	30·22	-·01	50	50	+8	SSE	1	ogf	*	cmomd	*	55	42	0·01
	Ardrossan ...	30·10	49	W	3	0	30·13	+·13	47	47	-4	SW	2	0	2	c,o	*	53	46	-
	Malin Head ...	30·13	50	WNW	4	pm	30·12	+·10	45	43	-6	SW	3	om	2	f,r,pm	*	51	43	0·01
	Belmullet ...	30·22	51	WSW	1	0	30·17	+·01	46	46	-6	E	2	0	*	om,o	*	52	45	0·08
	Donaghadee ...	30·15	53	WNW	4	0	30·18	+·11	46	46	-5	WNW	4	c	2	0	*	55	45	0·01
	Liverpool (Bidston)	30·18	49	SSW	6	o	30·21	+·03	47	47	-2	ENE	1	f	?	bc,od	*	54	47	0·18
	Holyhead ...	30·21	53	WSW	2	om	30·18	-·02	52	51	+1	SE	1	rf	0	ompom	*	53	50	0·10
	Parsonstown ...	30·24	52	W	1	r	30·19	-·03	52	52	+1	SE	1	d	*	o,d	0·0	53	50	0·07
	Valencia ...	30·31	53	NE	0	om	30·22	-·07	53	52	+2	SW	3	f	4	oma,om	0·0	54	50	0·15
	Roche's Point ...	30·30	52	WNW	2	0	30·27	-·05	52	52	+1	WSW	3	f	3	o,f	*	54	50	-
	Pembroke (St. Ann's Hd.)	30·26	51	WNW	4	f	30·24	-·02	53	52	0	SSW	5	f	4	o,f	0·0	54	50	0·03
	Scilly	30·32	51	WSW	3	f	30·34	+·01	51	51	-1	WSW	3	f	3	f	0·0	56	49	0·01
	Prawle Point ...	30·33	51	WSW	3	0	30·33	-·01	50	50	+1	WSW	3	d	2	od,m	*	52	48	0·04
	Jersey (St. Aubin's)	30·36	53	SW	3	rf	30·39	+·01	52	52	+2	SW	3	dm	3	rm,rf	*	55	49	0·13
	Hurst Castle ...	30·28	52	W	3	om	30·32	+·01	51	50	+6	WSW	2	om	2	om	*	53	44	-
	Dungeness ...	30·24	51	WSW	3	0	30·29	-·01	50	50	+9	WSW	3	0	2	0	*	52	40	0·03
	North Foreland	30·23	48	WSW	5	c	30·28	-·01	49	49	+10	W	2	m	2	c	*	49	38	-
	London (Brixton) ...	30·23	51	W	3	a	30·28	·00	50	49	+10	SW	1	om	*	ogupd	0·0	52	39	-
	Oxford	30·25	52	WSW	3	c	30·28	+·01	50	50	+7	SSW	1	odf	*	o,c	*	52	43	0·01
	Cambridge ...	30·20	48	WSW	1	0	30·25	·00	50	50	+11	SW	1	ogm	*	0	0·8	54	37	-
	Yarmouth ...	30·10	51	WNW	3	c	30·21	+·01	50	49	+12	WSW	2	bcm	3	bc,c	*	52	36	0·02
GERMANY & HOLLAND.	Cuxhaven ...	30·04	34	S	2	r	30·06	-·07	44	44	+11	WNW	2	0	*	S,rs	*	45	33	0·20
	Berlin	30·15	31	SW	3	0	30·01	-·04	41	39	+13	WNW	3	b	*	0	*	41	28	0·04
	Wiesbaden ...	*	*	*	*	*	30·26	+·05	48	46	+6	SW	2	0	*	*	*	48	41	0·08
	Munich... ..	30·34	33	W	5	0	30·33	+·21	36	36	+3	SW	6	r	*	0	*	36	32	0·32
	The Helder ...	30·03	49	NW	3	0	30·16	-·01	48	47	+3	WSW	1	0	2	0	*	50	45	-
BELGIUM.	Brussels ...	*	*	*	*	*	30·30	-·02	50	50	+13	W	1	r	*	f	*	50	37	0·04
	Cape Gris Nez ...	?	53	W	6	0	?	?	53	51	+7	WNW	3	0	3	0	*	54	43	0·12
	Paris	30·38	47	SW	1	0	30·40	+·03	46	46	+8	SSW	2	0	*	0	*	50	38	-
	Brest	30·39	53	WNW	1	0	30·38	-·01	53	52	+3	W	1	0	1	0	*	54	46	0·04
	Lorient... ...	30·41	53	W	1	r	30·41	-·02	53	53	+5	SW	2	f	4	r	*	54	48	0·04
FRANCE &	Rochefort ...	30·41	48	E	1	b	30·43	+·04	48	47	+5	SSE	3	0	*	b	*	55	44	-
	Belfort	30·40	37	N	3	0	30·47	+·15	37	36	-3	W	1	m	*	0	*	42	36	-
	Lyons	30·43	38	NW	1	b	30·50	+·11	39	37	0	NNW	1	0	*	b	*	46	37	-
	Nice	30·10	47	E	2	b	30·22	+·30	43	38	-1	E	3	b	2	b	*	50	43	-
	Perpignan ...	30·28	54	NW	6	b	30·33	+·11	55	47	+1	NW	3	b	*	b	*	57	50	-
	Biarritz ...	30·38	54	ESE	2	0	30·40	+·06	45	43	-8	E	2	b	2	0	*	55	43	-
PENINSULA.	Corunna ...																*			
	Lisbon	30·35	55	N	3	b	30·38	+·02	46	44	-1	NNE	3	b	*	b	*	50	46	-
	Azores (P. Delgada)	30·41	57	ENE	3	0	30·32	-·14	56	52	+7	ENE	2	0	2	0	*	63	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 0·0 hrs;

WEATHER CHARTS

FOR Saturday, 17th December 1898

BAROMETER, WIND AND SEA.

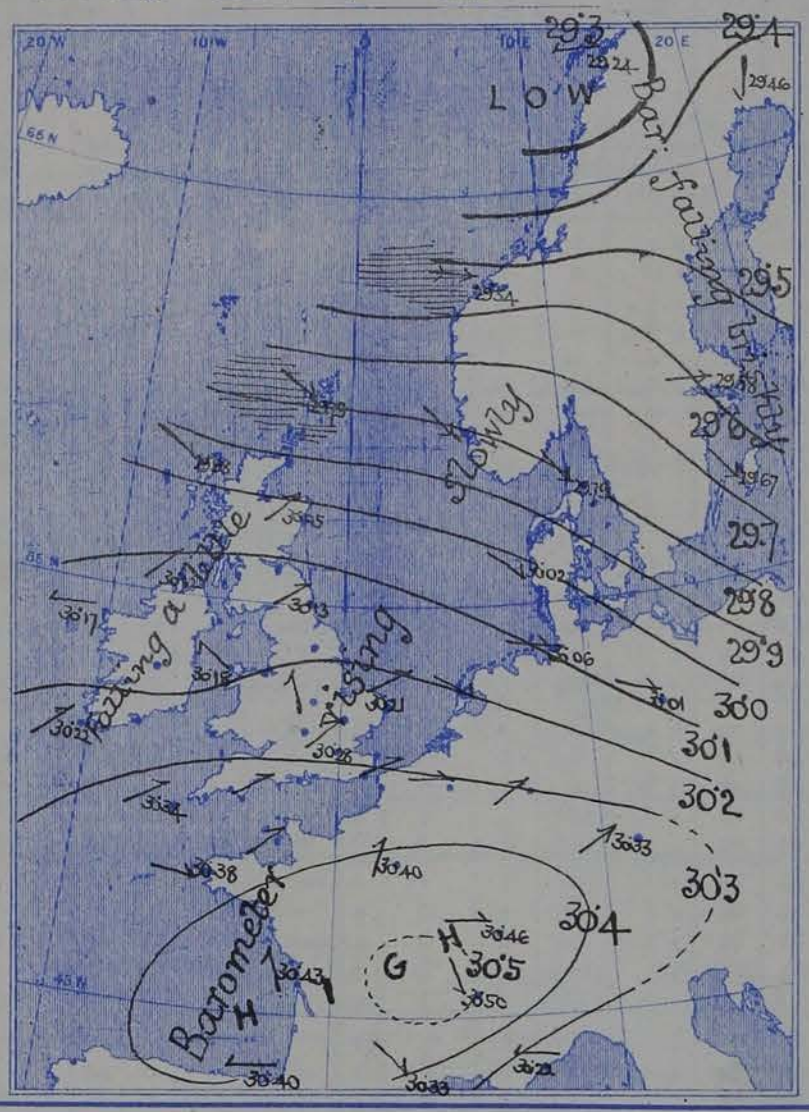
BAROMETER—Isobars are drawn for each tenth of an inch.

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 ▬

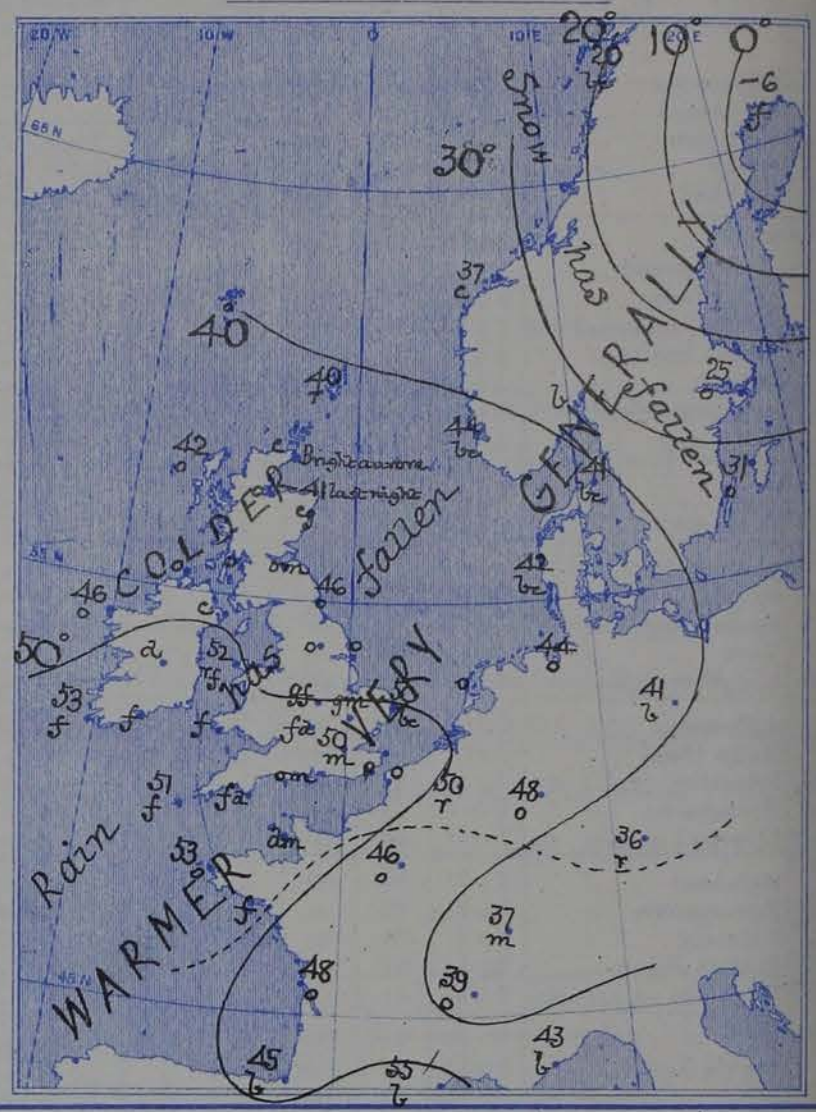


TEMPERATURE & WEATHER.

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 DECEMBER.

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 · 656	39 · 8	38 · 3	42 · 8	35 · 5	53	1890	19	1877	4 · 27	—	—
Stornoway	29 · 688	39 · 6	38 · 7	43 · 3	34 · 4	54	1880	15	1880	5 · 64	25 · 4	13
Wick	29 · 699	38 · 3	37 · 1	42 · 4	33 · 0	55	1889, 94	10	1882	3 · 17	—	—
Nairn	29 · 727	37 · 2	35 · 7	42 · 2	32 · 4	57	1888, 90, 91, 92, 94	10	1882	1 · 94	—	—
Aberdeen	29 · 758	37 · 0	35 · 3	42 · 0	32 · 8	58	1873	6	1882	3 · 11	39 · 9	20
Leith	29 · 797	38 · 7	37 · 2	44 · 1	33 · 7	58	1873, 88	6	1882	1 · 89	—	—
Shields	29 · 836	38 · 4	37 · 0	43 · 1	33 · 9	59	1873	10	1878, 79	2 · 32	—	—
Spurn Head	29 · 870	38 · 9	37 · 8	42 · 6	35 · 4	55*	1888	19*	1891	2 · 05	—	—
York	29 · 886	36 · 6	35 · 6	42 · 5	32 · 4	59	1888, 91	0	1879	2 · 21	26 · 5	12
Loughborough	29 · 922	36 · 4	35 · 4	43 · 0	32 · 3	59*	1888	7*	1890	2 · 24	—	—
Ardrossan	29 · 809	40 · 3	39 · 1	44 · 7	36 · 2	55	1880	15	1879	3 · 66	—	—
Malin Head	29 · 768	41 · 3	39 · 6	45 · 2	38 · 1	—	—	—	—	—	—	—
Belmullet	29 · 822	42 · 8	40 · 9	46 · 9	39 · 0	—	—	—	—	5 · 36	—	—
Donaghadee	29 · 840	40 · 4	39 · 5	45 · 8	36 · 3	56	1885, 88, 94	20	1879	2 · 85	—	—
Holyhead	29 · 876	42 · 8	41 · 2	46 · 5	39 · 2	56	1872, 88	25	1874	3 · 83	—	—
Liverpool	29 · 891	39 · 0	37 · 3	43 · 8	35 · 7	59	1891	13	1878	2 · 62	—	—
Parsonstown	29 · 891	38 · 3	37 · 0	45 · 1	33 · 5	58	1877	8	1878	3 · 09	45 · 0	20
Valencia	29 · 900	45 · 0	42 · 9	49 · 9	40 · 4	57	1884, 88	24	1886	5 · 93	43 · 9	19
Roche's Point	29 · 908	43 · 5	42 · 1	48 · 2	39 · 4	58	1873	25	1882	5 · 16	—	—
Pembroke	29 · 914	43 · 9	42 · 6	47 · 0	40 · 5	55	1876	19	1890	3 · 96	46 · 0	20
Scilly	29 · 950	47 · 4	45 · 5	49 · 8	43 · 6	57	1876	30	1890	4 · 00	—	—
Prawle Point	29 · 970	42 · 8	41 · 4	47 · 3	38 · 5	55*	1881, 88	25*	1885, 87, 90	3 · 77	—	—
Jersey	29 · 993	43 · 5	41 · 7	47 · 7	39 · 7	61	1876	19	1871	3 · 76	62 · 6	25
Hurst Castle	29 · 962	40 · 9	40 · 1	45 · 9	36 · 7	58	1876	19	1890	2 · 77	—	—
Dover	29 · 954	40 · 0	38 · 9	44 · 7	35 · 9	56	1880	12	1890	2 · 79	—	—
LONDON	29 · 956	38 · 0	36 · 8	44 · 3	34 · 0	58	1873, 88, 91	11	1878	2 · 11	11 · 8†	5†
Oxford	29 · 956	37 · 1	36 · 0	43 · 2	33 · 6	58	1888	6	1878	2 · 10	41 · 8	18
Cambridge	29 · 941	36 · 4	35 · 6	43 · 2	31 · 6	59	1878, 88	0	1879	1 · 82	41 · 2	18
Yarmouth	29 · 915	38 · 1	37 · 1	42 · 2	33 · 8	56	1873	15	1879	2 · 53	—	—

* 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: at Lyons; 30·0 ins: and upwards in an anticyclone covering the greater part of Western Europe.
Lowest, 29·3 ins: and less, in a depression lying off the northern parts of the Norwegian coast.
Gradients slight. Barometer falling a little in the west of our Islands and also in Sweden, but rising elsewhere.

TEMPERATURE

Highest, (1) 55° at Perpignan; (2) 53° at Valencia (Ireland), Pembroke, Brest, and Lorient.
Lowest, (1) −6° F. at Haparanda, 20° at Bodö and 25° at Stockholm; (2) 36° at Munich, and 37° at Belfort; (3) 37° at Kiel.
During yesterday the thermometer rose to between 50° and 55° in nearly all parts of the United Kingdom, and to 56° at Scilly.

WIND

Light from the SW^{ly} or W^{ly} over the greater part of our Islands and also over the Netherlands and the north of France, but E^{ly} or SE^{ly} in Wales and Central Ireland.
W^{ly} or NW^{ly} in Scandinavia, Denmark, and North Germany, with a gale at Christiansund.
Variable or light from the E^{ly} over the southern part of France.

WEATHER

Dull over Western Europe as a whole, with fog and slight rain in the south of Ireland, the western and central parts of England and the northwest of France. Rain is also falling at Brussels and Munich
Vardö in Norway, Denmark and North Germany, and also in the extreme south of France.
A little rain fell yesterday in many parts of our area, and snow in the southern parts of Scandinavia as well as at Fasthaven.
Bright Aurora seen at Aberdeen.

SEA

Slight or smooth generally, but rough at Sumburgh Head and Christiansund.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression noticed yesterday off the north of Scotland has travelled away to the northeastward. A shallow secondary disturbance is apparently lying this morning off the west of Ireland, and is likely to advance eastwards. Rain is therefore probable in many parts of Ireland and England.

FORECASTS

For the 24 hours ending at NOON on 18TH DECR. 1898.

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	W^{ly} to SW^{ly} winds, moderate, cloudy, some rain.
1	SCOTLAND EAST	
2	ENGLAND N.E.	Same as No 5
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	SW^{ly} winds, light; dull, misty or foggy, some rain.
6	SCOTLAND WEST	SW^{ly} winds, light; dull, misty, some rain.
7	ENGLAND N.W.	Variable breezes, finally W^{ly}; dull, misty or foggy. some rain.
8	ENGLAND S.W.	SW^{ly} to W^{ly} winds, light; dull, foggy, some rain.
9	IRELAND NORTH	Same as No 7
10	IRELAND SOUTH	Same as No 8
	WARNINGS	NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.80	35	34	SE	8	r	5
Sumburgh Head	29.70	45	43	WNW	4	bc	5
Stornoway	29.95	45	44	WNW	2	o	2
Aberdeen	29.91	50	48	NW	6	ogrq	4
Shields	30.01	54	52	W	4	o	2
Ardrossan	30.01	52	52	W	6	e	4
Malin Head ...	30.07	50	49	WNW	4	r	3
Belmullet	30.19	52	52	W	1	om	*
Holyhead	30.18	53	52	SW	3	opm	2
Valencia	30.30	52	52	S	0	odm	4
Scilly	30.32	53	53	WSW	2	f	3
Jersey	30.38	52	52	SW	4	r	3
Hurst Castle ...	30.29	52	51	WSW	3	om	3
Dungeness ...	30.22	50	48	WSW	4	o	3
North Foreland	30.21	48	46	WSW	3	c	2
London (Westminster)	30.22	50	48	SW	2	oq	*
Yarmouth ...	30.11	48	47	WSW	4	bc	4
Rochefort	30.41	55	53	ESE	1	b	*

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

Weather in morning cloudy or dull over Western Europe as a whole, with fog at the mouths of the English and Bristol Channels and slight rain at several of our more western and northern stations. Fine over the southern countries generally, as well as over Finland and Central Sweden, but dull over northern eastern, and central Europe as a whole, with snow at Archangel and Moscow, as well as at Munich. A little rain falling late in most of the western countries, and snow in the southern parts of Scandinavia, and also at Cuxhaven. Aurora seen at Aberdeen.

Temperature risen in the west and north of our Islands and also in Spain, Italy, and Russia, but fallen elsewhere. Morning readings highest 60° at Malta, 58° at La Calle, and 56° at Cagliari, Palermo and Tunis; above 50° in the western and northern parts of our Islands. Lowest -11° F. at Ulealeaborg, -9° at Haparanda, -1° at Archangel, and +1° at Helsingfors; below the freezing point over northern and eastern Europe generally. Rising during day to between 50° and 55° in nearly all parts of our Islands; exceeding the latter point in the south of France, and reaching 59° at Nice and Lisbon.

Wind light to fresh from the W. or SW. in our Islands, and from the E. or SE. on the Norwegian coasts. Calm in the Gulf of Bothnia; N. over northern Russia, the Baltic and Denmark; NW. to W. in Germany and Austria, SW. in the south of Russia. Light from the E. or NE. over the Bay of Biscay and the Portuguese coasts; N. or NW. over Italy and the south of France. No important change occurring later.

Barometer highest 30·48 in. at Madrid; 30·3 in. and upwards in an anticyclone covering nearly the whole of Spain, France, the Bay of Biscay and the extreme south of our Islands. Lowest 29·4 in. and less, in two depressions lying over Russia; 29·6 in. and less, in another disturbance lying near the Shetlands. Latter disturbance moving away later to the northeastwards and barometer rising in most parts 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.

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 18th December, 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 ...	29.48	-10	E	0	c	29.50	+ .04	-8	-8	— 2	E	0	f	*	c	*	-2	-33	—
	Hernösand ...	29.42	26	E	0	b	29.49		27	26		S	2	b	*	b	*	27	-6	—
	Stockholm ...	29.64	28	W	2	b	29.70	+ .12	25	24	0	WSW	2	b	*	b	*	30	10	—
	Wisby	29.73	39	NNW	6	b	29.78	+ .11	37	35	+ 6	NNW	4	b	*	b	*	39	27	—
	Karlstad ...	29.69	34	W	4	o	29.74	+ .07	26	25	— 9	W	2	o	*	o	*	*	*	—
	Bodö	29.18	20	E	4	s	29.19	— .05	21	20	+ 1	E	5	s	2	s	*	?	16	—
	Christiansund ...	29.56	39	W	8	s	29.52	— .02	38	35	+ 1	WSW	5	c	6	s	*	39	34	0.20
	Skudesnaes ...	29.88	43	WNW	4	bc	29.60	— .24	39	38	— 5	S	6	r	4	e,bc	*	45	37	*
	Færder (Christiania Fjord)	29.72	40	W	5	b	29.71	.00	37	34	+ 2	NNW	1	o	3	b	*	41	36	—
	Skagen (The Scaw)	29.86	42	WNW	4	b	29.76	— .03	40	39	— 1	WSW	2	o	0	b	*	45	39	—
	Fano	29.97	44	WNW	3	b	29.83	— .19	47	46	+ 5	SSW	4	f	*	b	*	46	42	—
British Islands	Sumburgh Head	29.85	40	WNW	4	c	29.26	— .53	43	40	+ 3	W	6	c	6	o,c	*	45	39	0.14
	Stornoway ...	29.88	42	SW	3	r	29.66	— .32	40	38	— 2	WNW	6	bcw	6	o,r	0.0	44	36	0.30
	Wick	29.94	40	S	1	o	29.54	— .41	39	37	+ 2	NW	7	chpw	5	or	*	46	35	0.30
	Nairn	29.95	42	W	1	bc	29.69	— .33	41	38	— 2	W	4	r	3	bc	*	49	36	0.57
	Aberdeen ...	30.01	42	WSW	2	o	29.64	— .41	44	42	+ 3	W	7	bcqw	4	c,o,p	0.0	50	40	0.21
	Leith	30.01	47	W	1	r	29.78	— .32	48	44	+ 3	WSW	5	b	*	r	*	53	39	0.13
	Shields	30.07	46	ENE	1	c	29.86	— .27	51	49	+ 6	WSW	3	o	2	op	*	55	45	0.03
	Spurn Head ...	30.10	50	SSW	3	odm	29.98	— .20	50	49	+ 2	SW	5	c	4	odm	*	52	47	0.04
	York	30.17	48	SSW	1	o	29.96	— .24	52	51	+ 7	W	4	o	*	o	?0.0	54	46	—
	Loughborough ...	30.17	52	SW	3	c	30.08	— .14	52	49	+ 2	WSW	3	cw	*	c,o,bcq	*	55	50	—
	Ardrossan ...	29.98	46	SSE	2	pm	29.90	— .23	47	47	0	W	5	chq	3	am,pm	*	48	46	0.13
	Malin Head ...	29.88	50	S	5	r	29.91	— .21	45	42	0	NNW	6	cg	4	r	*	52	44	0.14
	Belmullet ...	29.98	52	SW	6	am	30.08	— .09	46	43	0	NNW	4	c	*	am	*	52	43	0.07
	Donaghadee ...	30.01	50	SSW	2	c	29.97	— .21	49	47	+ 3	W	3	c	1	c	*	53	44	0.02
	Liverpool (Bidston)	30.13	52	SSW	2	o	30.02	— .19	53	49	+ 6	WSW	6	bc	4	orf	*	56	46	0.06
	Holyhead ...	30.12	52	SW	3	o	30.04	— .14	52	50	0	WSW	5	o	3	fd,ogm	*	53	50	0.04
	Parsonstown ...	30.11	53	SW	2	b	30.09	— .10	48	47	— 4	SW	1	o	*	od,b	0.0	55	47	0.01
	Valencia ...	30.18	53	SW	4	o	30.13	— .09	50	49	— 3	WSW	2	o	4	om,o	0.3	54	44	0.01
	Roche's Point ...	30.23	52	WSW	3	bc	30.16	— .11	52	51	0	W	3	c	3	bc	*	54	50	—
	Pembroke (St. Ann's Hd.)	30.21	52	SW	5	f	30.15	— .09	53	51	0	W	5	c	4	f	0.0	53	52	0.02
	Scilly	30.29	52	WSW	2	f	30.23	— .11	52	52	+ 1	SSW	3	om	4	f	0.0	50	49	0.03
	Prawle Point ...	30.31	51	WSW	3	f	30.26	— .07	52	51	+ 2	WSW	3	o	2	df,m	*	52	49	0.03
	Jersey (St. Aubin's)	30.35	53	E	0	f	30.30	— .09	54	54	+ 2	WSW	3	f	3	of	*	54	51	0.08
	Hurst Castle ...	30.29	52	SW	3	r	30.24	— .08	52	52	+ 1	WSW	2	om	2	opel,am	*	52	51	0.01
	Dungeness ...	30.26	51	WSW	3	o	30.22	— .07	52	52	+ 2	WSW	3	c	2	o	*	53	50	0.01
	North Foreland	30.27	51	WSW	1	m	30.21	— .07	52	50	+ 3	SW	2	om	1	om	*	52	49	0.01
	London (Brixton) ...	30.27	52	SSW	2	o	30.23	— .05	52	51	+ 2	WSW	1	o	*	og	0.0	52	50	—
	Oxford	30.29	53	SW	2	o	30.18	— .10	51	50	+ 1	SW	4	c	*	ogd	*	53	50	—
	Cambridge ...	30.22	52	SW	3	o	30.15	— .10	51	49	+ 1	SW	4	b	*	o	0.0	55	49	0.02
	Yarmouth ...	30.18	52	WSW	2	bc	30.08	— .13	50	49	0	WSW	4	b	3	bc	*	52	48	0.02
Germany & Holland	Cuxhaven ...	30.14	45	W	1	o	29.95	— .11	48	48	+ 4	WSW	4	or	*	o	*	48	41	0.08
	Berlin	30.18	43	SW	1	o	30.07	+ .06	43	42	+ 2	SW	2	r	*	o	*	46	41	0.04
	Wiesbaden ...	*	*	*	*	*									*	*	*			
	Munich	30.42	42	W	5	r	30.36	+ .03	41	41	+ 5	SW	2	b	*	r	*	?	36	0.43
	The Helder ...	30.18	48	E	0	r	30.03	— .13	51	49	+ 3	WSW	4	bc	2	r	*	52	46	0.08
Belgium.	Brussels ...	*	*	*	*	*	30.26	— .04	49	49	— 1	SW	4	r	*	o	*	51	48	0.04
	Cape Gris Nez ...	?	54	W	4	r	?	?	54	52	+ 1	W	4	o	4	r	*	55	48	0.12
	Paris	30.42	48	SSW	1	o	30.37	— .03	48	48	+ 2	SSW	2	o	*	o	*	50	46	—
	Brest	30.50	53	WSW	1	f	30.31	— .07	53	52	0	W	2	o	2	f	*	55	50	0.04
	Lorient	30.39	54	W	2	f	30.36	— .05	53	53	0	W	2	f	4	f	*	57	52	0.06
France &	Rochefort ...	30.43	50	ESE	2	o	30.37	— .06	46	45	— 2	E	3	o	*	o	*	55	43	—
	Belfort	30.46	41	WSW	4	f	30.39	— .08	39	39	+ 2	W	4	f	*	f	*	41	37	0.12
	Lyons	30.50	44	NE	1	o	30.45	— .05	39	39	0	SE	1	m	*	o	*	46	32	—
	Nice	30.32	50	E	0	b	30.38	+ .16	45	42	+ 2	E	0	b	1	b	*	59	43	—
	Perpignan ...	30.33	59	NNW	3	b	30.39	+ .06	40	39	— 15	SW	1	o	*	b	*	66	38	—
	Biarritz ...	30.39	49	E	3	b	30.31	— .09	38	37	— 7	ESE	4	m	2	b	*	55	37	—
Peninsula.	Corunna ...	30.35	57	E	1	f	30.34		45	43		E	1	f	4	f	*	57	37	—
	Lisbon	30.36	53	E	0	b	30.37	— .01	44	43	— 2	NNE	3	b	*	b	*	57	44	—
	Azores (P. Delgada)	30.25	58	ENE	2	bc	30.22	— .10	55	52	— 1	ENE	2	b	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 0.0 hrs;

WEATHER CHARTS

FOR Sunday, 18th December, 1898

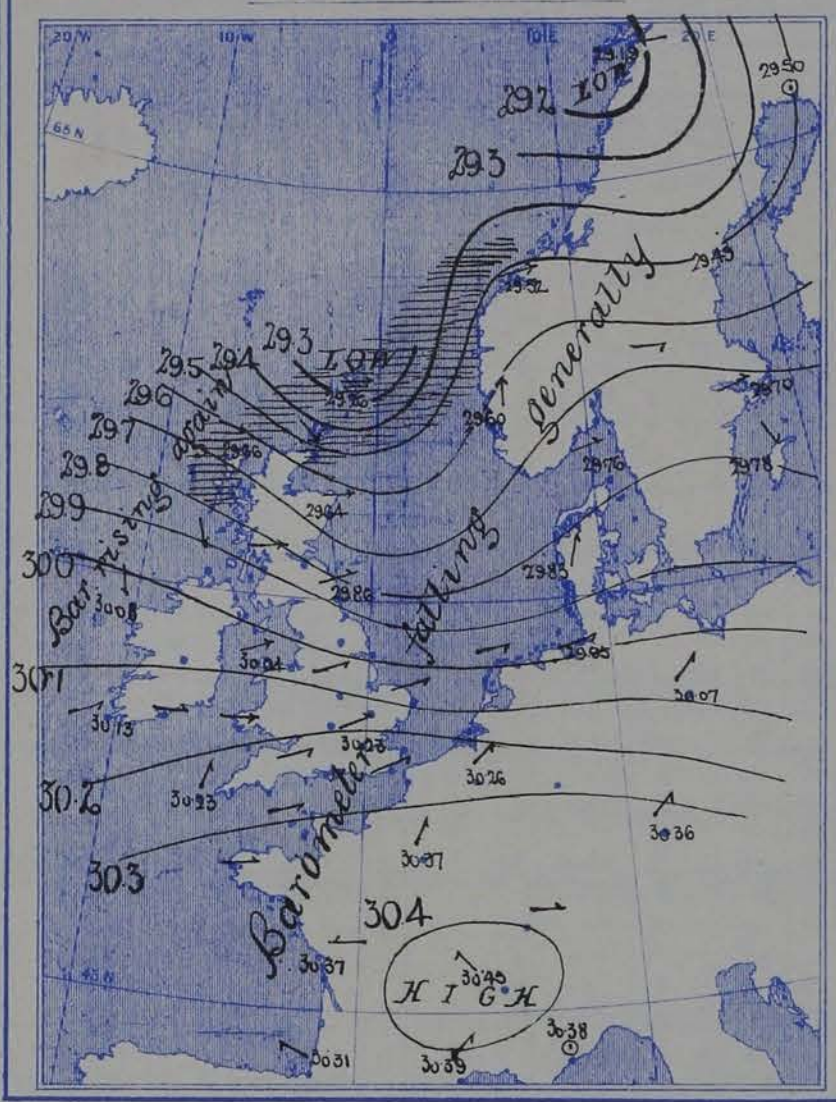
BAROMETER, WIND AND SEA.

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 ⊙

SEA—Rough ; High

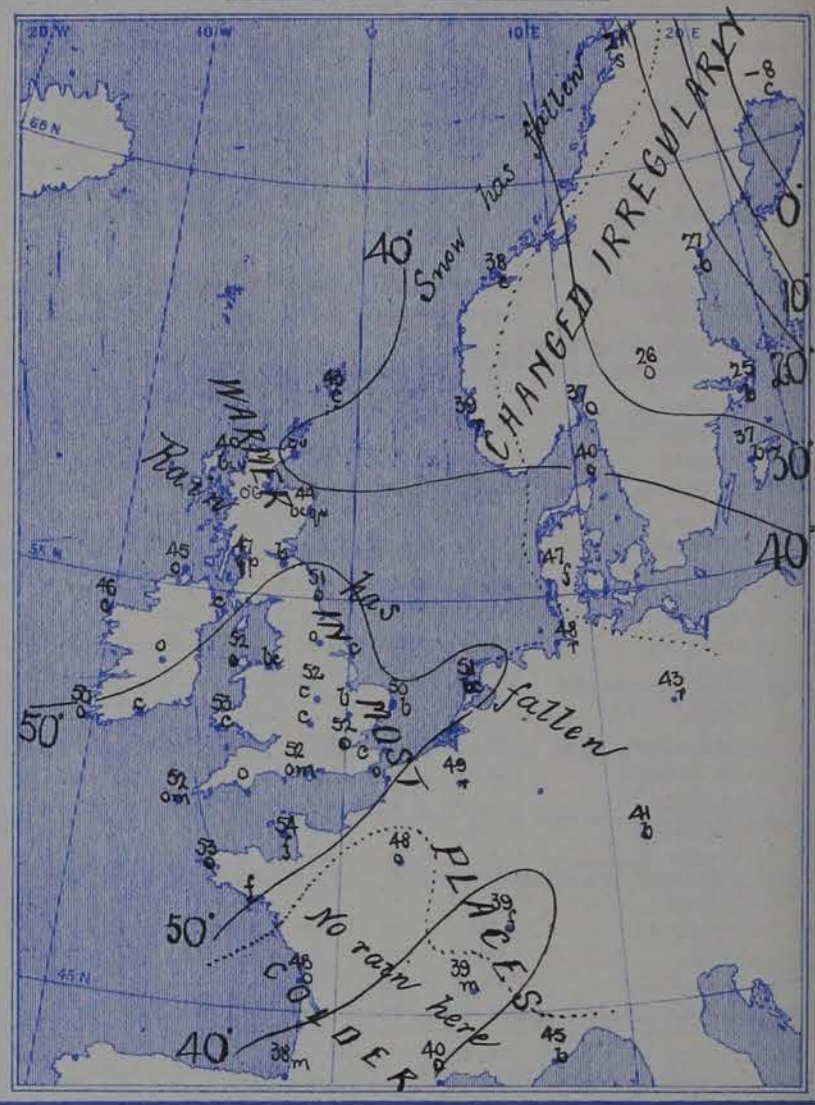


TEMPERATURE & WEATHER.

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 DECEMBER.*

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	29·656	39·8	38·3	42·8	35·5	53	1890	19	1877	4·27	—	—
Stornoway	29·688	39·6	38·7	43·3	34·4	54	1880	15	1880	5·64	25·4	13
Wick	29·699	38·3	37·1	42·4	33·0	55	1889, 94	10	1882	3·17	—	—
Nairn	29·727	37·2	35·7	42·2	32·4	57	1888, 90, 91, 92, 94	10	1882	1·94	—	—
Aberdeen	29·758	37·0	35·3	42·0	32·8	58	1873	6	1882	3·11	39·9	20
Leith	29·797	38·7	37·2	44·1	33·7	58	1873, 88	6	1882	1·89	—	—
Shields	29·836	38·4	37·0	43·1	33·9	59	1873	10	1878, 79	2·32	—	—
Spurn Head	29·870	38·9	37·8	42·6	35·4	55*	1888	19*	1891	2·05	—	—
York	29·886	36·6	35·6	42·5	32·4	59	1888, 91	0	1879	2·21	26·5	12
Loughborough	29·922	36·4	35·4	43·0	32·3	59*	1888	7*	1890	2·24	—	—
Ardrossan	29·809	40·3	39·1	44·7	36·2	55	1880	15	1879	3·66	—	—
Malin Head	29·768	41·3	39·6	45·2	38·1	—	—	—	—	—	—	—
Belmullet	29·822	42·8	40·9	46·9	39·0	—	—	—	—	5·36	—	—
Donaghadee	29·840	40·4	39·5	45·8	36·3	56	1885, 88, 94	20	1879	2·85	—	—
Holyhead	29·876	42·8	41·2	46·5	39·2	56	1872, 88	25	1874	3·83	—	—
Liverpool	29·891	39·0	37·3	43·8	35·7	59	1891	13	1878	2·62	—	—
Parsonstown	29·891	38·3	37·0	45·1	33·5	58	1877	8	1878	3·09	45·0	20
Valencia	29·900	45·0	42·9	49·9	40·4	57	1884, 88	24	1886	5·93	43·9	19
Roche's Point	29·908	43·5	42·1	48·2	39·4	58	1873	25	1882	5·16	—	—
Pembroke	29·914	43·9	42·6	47·0	40·5	55	1876	19	1890	3·96	46·0	20
Scilly	29·950	47·4	45·5	49·8	43·6	57	1876	30	1890	4·00	—	—
Prawle Point	29·976	42·8	41·4	47·3	38·5	55*	1881, 88	25*	1885, 87, 90	3·77	—	—
Jersey	29·993	43·5	41·7	47·7	39·7	61	1876	19	1871	3·76	62·6	25
Hurst Castle	29·962	40·9	40·1	45·9	36·7	58	1876	19	1890	2·77	—	—
Dover	29·954	40·0	38·9	44·7	35·9	56	1880	12	1890	2·79	—	—
LONDON	29·956	38·0	36·8	44·3	34·0	58	1873, 88, 91	11	1878	2·11	11·8†	5†
Oxford	29·956	37·1	36·0	43·2	33·6	58	1888	6	1878	2·10	41·8	18
Cambridge	29·941	36·4	35·6	43·2	31·6	59	1878, 88	0	1879	1·82	41·2	18
Yarmouth	29·915	38·1	37·1	42·2	33·8	56	1873	15	1879	2·53	—	—

* 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 ins: and upwards over Central France; 30·2 ins: and upwards in an anticyclone covering the whole of the Spanish Peninsula, France, and the southern parts of our Islands and Germany.
Lowest, 29·3 ins: and less, in a depression with its centre a little to the northward of the Shetlands.
Gradients moderate to rather steep over northwestern Europe generally, but slight over France and Spain.
Barometer falling in most places, but rising in the west of Ireland and also in Sweden.

TEMPERATURE

Highest, 54° at York and Jersey, and 53° at Liverpool, Pembroke, Brest, and Lorient.
Lowest, -8° F. at Haparanda, +21° at Bodö, 25° at Stockholm and 26° at Karlstad. Lowest in our Islands 39° at Wick.
During yesterday the thermometer again rose to between 50° and 55° in nearly all parts of the United Kingdom and to 56° at Scilly and Liverpool.

WIND

Moderate to fresh from the W.ly or SW.ly over the greater part of our Islands, the Netherlands, Denmark, Germany, and the north of France, but strong from the N.ly on our extreme north and northwest coasts. S.ly to E.ly in the west of Norway.

WEATHER

Fair or fine at most stations in the eastern and central parts of England and also in Sweden.
Cloudy or dull in most parts of our area, with fog or mist over the Channel and Bay of Biscay, and rain over Belgium and North Germany, as well as at Nairn and Skudesnaes. Snow is falling at Bodö.
Rain fell yesterday over nearly the whole of our Islands and the neighbouring parts of the Continent, but the quantity was mostly slight.

SEA

Rough in the north of Scotland and west of Norway, but moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 19th DEC: 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 9·40 am to districts 0 and 1 "Hoist North Cone" The signals are still flying in districts 6.7. and 9.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.89	44	41	NW	4	c	3
Sumburgh Head	29.80	42	39	WNW	4	o	6
Stornoway	29.97	44	43	WSW	3	o	3
Aberdeen	30.05	44	41	SSW	1	c	2
Shields	30.13	47	46	WSW	2	op	2
Ardrossan	30.08	48	48	SSW	2	omp	2
Malin Head ...	30.05	49	48	S	2	r	1
Belmullet	30.04	52	52	WSW	5	om	*
Holyhead	30.13	53	53	SW	3	fd	2
Valencia	30.19	54	54	SW	4	om	5
Scilly	30.32	53	53	SSW	2	f	2
Jersey	30.38	53	53	WSW	3	f	3
Hurst Castle ...	30.02	52	52	WSW	2	opd	2
Dungeness ...	30.26	51	51	WSW	4	o	3
North Foreland	30.26	52	50	WSW	2	o	1
London (Westminster)	30.26	53	52	WSW	1	og	#
Yarmouth ...	30.19	52	51	WSW	2	cmd	3
Rochefort ...	30.43	55	53	S	2	bc	*

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

Weather in morning cloudy or dull over Western Europe as a whole, with fog or slight rain in the south of Ireland, the western and central part of England and the northwest of France. Fine over the southern countries, as well as at most of the Scandinavian and Danish stations; dull over Russia and Central Europe, with rain at Brussels and Munich, and snow at Archangel, Helsingfors and Riga. Rain falling later over the whole of our Islands and the neighbouring countries, but amount mostly slight.

Temperature fallen rapidly in the south of Russia and to a less extent over Southern Europe generally, and also in the north of our Islands. Morning readings highest 59° at Algiers, 58° at La Calle and 56° at Sanguinaire and Tunis; above 50° at several of our own western and southern stations. Lowest −6° F. at Hafaranda, 0° Zero at Archangel, 2° at Kuopio, and 4° at Moscow; below the freezing point over nearly the whole of Sweden, Russia and Austria. Rising during day to 50° and upwards in all but the extreme northern part of the United Kingdom, and reaching 56° at Liverpool and Scilly. Exceeding 55° also over the Spanish Peninsula and the west and south of France, reaching 66° at Perpignan.

Wind light from the W.ᵈ or SW.ᵈ over the greater part of our Islands and also in the Netherlands and the north of France, but E. or SE. over North Wales and Central Ireland. Moderate to strong from the W.ᵈ or NW.ᵈ over Denmark, North Germany and the southern part of Scandinavia, and also over central and southern Russia; S. or SE. over the northern part of Russia. Moderate to strong from the N.ᵈ or NE.ᵈ over Italy and the Adriatic; light from the E.ᵈ or NE.ᵈ over the Spanish Peninsula and the south of France. Subsequently backing to the S.ᵈ on our own extreme NW. coasts.

Barometer highest 30·5 in. and upwards over Central France, 30·2 in. and upwards in an anticyclone embracing nearly the whole of Central and Southern Europe, and extending northwards over England and the south of Ireland. Lowest 29·3 in. and less, in a depression off the Norwegian coasts; 29·6 in. and less in a secondary system lying over the Gulf of Bothnia and the northern part of the Baltic. Both depressions moving eastwards later, but new disturbance appearing off the extreme northwest coasts 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.

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 „

BRITISH ISLANDS. FRANCE & BELGIUM. GERMANY & HOLLAND. PENINSULA.

DAILY WEATHER REPORT

for 8 a.m. on Monday, 19th December, 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 ...	29.31	-1	SW	0	6	29.21	-.29	-18	-18	-10	N	2	b	*	S	*	0	-22	0.12
	Hernösand ...	29.27	19	SW	0	0	29.10	-.39	13	13	-14	SW	0	b	*	0	*	28	13	0.12
	Stockholm ...	29.36	31	SSW	2	0	29.30	-.40	31	29	+6	SW	4	b	*	0	*	32	21	0.08
	Wisby	29.43	34	WNW	6	8	29.45	-.33	38	35	+1	NW	10	b	*	S	*	34	32	0.04
	Karlstad ...	29.32	35	WNW	7	b	29.32	-.42	36	32	+9	WSW	4	b	*	r.b	*	*	*	-
	Bodö	29.17	24	E	1	b	29.11	-.08	18	16	-3	E	4	b	1	b	*	24	18	-
	Christiansund ...	29.14	39	W	9	8	28.98	-.54	34	29	-4	W	8	8	6	8	*	39	34	0.04
	Skudesnaes ...	29.65	38	SSW	2	0	29.51	-.09	37	36	-2	W	4	0	3	c.b	*	44	34	*
	Færder (Christiania Fjord)	29.45	38	WSW	5	b	29.34	-.37	39	36	+2	W	8	0	4	b	*	39	37	0.08
	Skagen (The Scaw)	29.60	41	NW	6	b	29.52	-.24	39	38	-1	W	5	r	1	b	*	45	36	0.32
	Fanö	29.91	43	WNW	5	c	29.75	-.08	41	39	-6	W	5	c	*	c	*	48	41	0.04
	Sumburgh Head	29.54	37	WNW	9	0	29.42	+.16	39	33	-4	WNW	5	c	7	0 tlh	*	45	36	0.20
	Stornoway ...	29.82	38	WNW	5	0	29.76	+.10	35	34	-5	NNW	6	0 qrsh	6	rsq	1.2	40	35	0.21
	Wick	29.77	35	NW	7	c	29.62	+.08	34	33	-5	NW	4	c	3	rsp	*	41	32	0.22
	Nairn	29.87	37	WNW	2	b	29.73	+.04	37	34	-4	WNW	2	b	1	b	*	41	34	0.24
	Aberdeen ...	29.90	37	WSW	3	c	29.72	+.08	37	34	-7	W	7	bcq	3	bc.p	3.6	45	34	0.01
	Leith	29.97	45	WSW	2	bc	29.83	+.05	40	38	-8	WSW	5	bc	*	bc	*	48	36	-
	Shields	30.02	44	W	2	bcm	29.89	+.03	39	37	-12	WSW	4	b	2	bcm	*	52	37	-
	Spurn Head ...	30.04	48	WSW	3	0	29.99	+.01	41	39	-9	WSW	5	b	4	b	*	52	38	-
	York	30.05	47	W	1	0	30.00	+.04	39	36	-15	W	3	b	*	0	0.0	55	37	-
	Loughborough ...	30.11	48	WSW	1	0	30.09	+.01	38	36	-14	W	2	bcw	*	bc.opb	*	58	38	0.18
British Islands.	Ardrossan ...	30.01	44	W	4	ogbp	29.91	+.01	42	42	-5	WNW	6	ogjp	4	gbpr	*	51	40	0.02
	Malin Head ...	30.04	42	WNW	5	bcq	29.97	+.06	42	42	-3	NW	6	cq	5	bcq	*	47	39	0.12
	Belmullet ...	30.15	43	W	8	c	30.21	+.13	46	43	0	WNW	5	0	*	0	*	46	40	0.01
	Donaghadee ...	30.07	43	W	8	c	30.03	+.06	36	36	-13	W	4	b	2	c	*	49	35	-
	Liverpool (Bidston)	30.09	45	W	1	f	30.08	+.06	43	39	-10	W	6	c	4	bf	*	54	40	0.20
	Holyhead ...	30.11	47	NW	3	gmr	30.12	+.08	43	41	-9	W	5	c	4	gmr	*	52	41	0.06
	Parsonstown ...	30.19	42	W	1	r	30.23	+.14	34	33	-34	SW	0	b	*	o,a	0.0	48	33	0.06
	Valencia ...	30.15	48	NNW	1	0	30.29	+.16	42	39	-8	N	1	bc	3	0	0.0	52	41	-
	Roche's Point ...	30.13	48	NNW	2	oa	30.28	+.12	41	39	-11	NW	3	b	8	oa	*	53	39	0.06
	Pembroke (St. Ann's Hd.)	30.15	52	WSW	5	f	30.21	+.06	44	39	-9	NNW	4	b	4	f	1.1	53	42	0.15
	Scilly	30.19	52	SSW	3	f	30.19	-.04	51	51	-1	WNW	3	m	3	f	0.0	56	50	0.02
	Prawle Point ...	30.22	52	WSW	3	m	30.17	-.09	47	46	-5	W	3	c	2	afjo	*	52	45	0.02
	Jersey (St. Aubin's)	30.28	53	SW	3	of	30.16	-.14	53	52	-1	WNW	3	cpm	2	rf	*	55	51	0.06
	Hurst Castle ...	30.20	53	WSW	2	om	30.14	-.10	46	45	-6	WNW	1	bm	1	om	*	54	46	-
	Dungeness ...	30.17	53	WSW	4	c	30.07	-.15	48	47	-4	W	3	c	2	c	*	54	47	0.04
	North Foreland	30.18	53	SW	2	c	30.08	-.13	45	44	-7	NW	4	c	3	c	*	56	44	0.03
	London (Brixton) ...	30.18	54	W	2	opa	30.13	-.10	46	45	-6	WNW	1	c	*	c,op	.0.4	56	45	-
	Oxford	30.13	51	SW	2	r	30.14	-.04	43	41	-8	NW	1	0	*	c,or	*	55	42	0.35
	Cambridge ...	30.13	52	SW	3	or	30.10	-.05	41	40	-10	WNW	2	c	*	bc.or	3.6	57	40	0.35
	Yarmouth ...	30.06	52	WSW	2	bc	30.01	-.07	41	39	-9	W	3	bm	3	bc.r	*	54	40	0.29
Germany & Holland.	Cuxhaven ...	29.95	49	W	5	0	29.84	-.11	44	44	-4	WSW	2	op	*	op	*	48	43	0.12
	Berlin	29.99	50	W	4	r	29.89	-.18	45	44	+2	W	2	r	*	r	*	50	43	0.32
	Wiesbaden ...	*	*	*	*	*	30.10		47	45		SW	1	0	*	*	*	50	46	-
	Munich	30.34	45	W	4	0	30.16	-.20	41	41	0	W	4	0	*	0	*	48	37	-
	The Helder ...	30.04	51	WSW	8	0	29.93	-.10	46	43	-5	WNW	8	0	1	0	*	54	46	0.12
Belgium.	Brussels ...	*	*	*	*	*	30.04	-.22	50	49	+1	WSW	5	r	*	r	*	51	49	0.04
	Cape Gris Nez ...	?	54	W	4	0	?	?	52	50	0	NW	4	0	4	0	*	54	50	0.04
	Paris	30.33	49	SSW	2	0	30.19	-.18	45	45	-3	SSW	2	0	*	0	*	50	45	-
	Brest	30.27	52	SW	2	0	30.20	-.11	52	51	-1	NW	2	r	3	0	*	54	48	-
	Lorient	30.29	50	WSW	1	m	30.21	-.15	52	52	-1	W	4	r	5	m	*	55	48	0.12
France &	Rochefort ...	30.30	44	E	1	m	30.25	-.12	43	43	-3	E	1	m	*	m	*	50	43	-
	Belfort	30.36	38	WSW	2	f	30.23	-.16	36	36	-3	WSW	2	f	*	f	*	41	36	-
	Lyons	30.39	40	SSE	1	0	30.31	-.14	36	36	-3	SSW	1	0	*	0	*	44	35	-
	Nice	30.33	48	W	0	b	30.24	-.14	44	42	-1	E	2	b	1	b	*	55	43	-
	Perpignan ...	30.35	?	E	2	0	30.28	-.11	48	47	+8	W	2	0	*	0	*	54	40	-
	Biarritz ...	30.23	53	E	3	b	30.24	-.07	54	53	+16	WSW	5	c	2	b	*	57	38	-
Peninsula.	Corunna ...																*			
	Lisbon	30.34	52	N	2	b	30.34	-.03	44	44	0	NE	2	cp	*	b	*	55	43	-
	Azores (P. Delgada)	30.24	57	ENE	3	b	30.20	-.02	58	56	+3	ENE	2	c	2	b	*	66	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...0.0 hrs.

WEATHER CHARTS

FOR Monday, 19th December, 1898

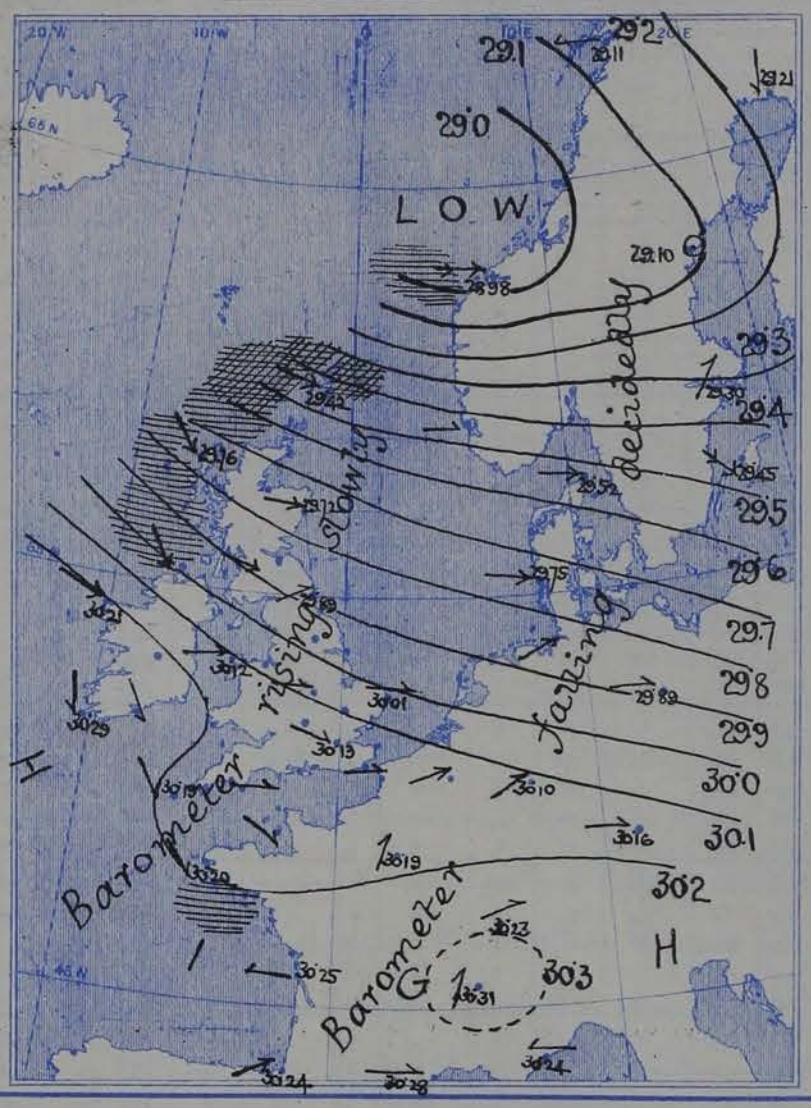
BAROMETER, WIND AND SEA.

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 ▩

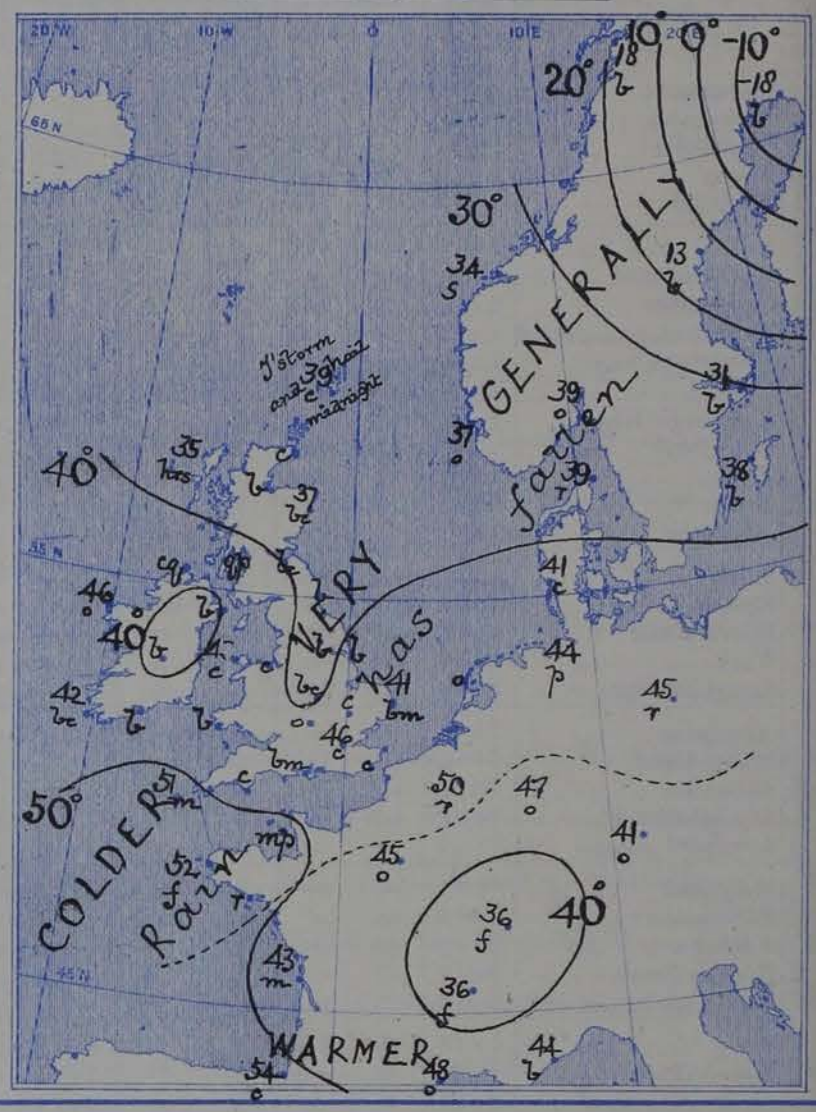


TEMPERATURE & WEATHER.

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 DECEMBER.

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 · 656	39 · 8	38 · 3	42 · 8	35 · 5	53	1890	19	1877	4 · 27	—	—
Stornoway	29 · 688	39 · 6	38 · 7	43 · 3	34 · 4	54	1880	15	1880	5 · 64	25 · 4	13
Wick	29 · 699	38 · 3	37 · 1	42 · 4	33 · 0	55	1889, 94	10	1882	3 · 17	—	—
Nairn	29 · 727	37 · 2	35 · 7	42 · 2	32 · 4	57	1888, 90, 91, 92, 94	10	1882	1 . 94	—	—
Aberdeen	29 · 758	37 · 0	35 · 3	42 · 0	32 · 8	58	1873	6	1882	3 · 11	39 · 9	20
Leith	29 · 797	38 · 7	37 · 2	44 · 1	33 · 7	58	1873, 88	6	1882	1 · 89	—	—
Shields	29 · 836	38 · 4	37 · 0	43 · 1	33 · 9	59	1873	10	1878, 79	2 · 32	—	—
Spurn Head	29 · 870	38 · 9	37 · 8	42 · 6	35 · 4	55*	1888	19*	1891	2 · 05	—	—
York	29 · 886	36 · 6	35 · 6	42 · 5	32 · 4	59	1888, 91	0	1879	2 · 21	26 · 5	12
Loughborough	29 · 922	36 · 4	35 · 4	43 · 0	32 · 3	59*	1888	7*	1890	2 · 24	—	—
Ardrossan	29 · 809	40 · 3	39 · 1	44 · 7	36 · 2	55	1880	15	1879	3 · 66	—	—
Malin Head	29 · 768	41 · 3	39 · 6	45 · 2	38 · 1	—	—	—	—	—	—	—
Belmullet	29 · 822	42 8	40 · 9	46 · 9	39 · 0	—	—	—	—	5 · 36	—	—
Donaghadee	29 · 840	40 · 4	39 · 5	45 · 8	36 · 3	56	1885, 88, 94	20	1879	2 · 85	—	—
Holyhead	29 · 876	42 · 8	41 · 2	46 · 5	39 · 2	56	1872, 88	25	1874	3 · 83	—	—
Liverpool	29 · 891	39 · 0	37 · 3	43 · 8	35 · 7	59	1891	13	1878	2 · 62	—	—
Parsonstown	29 · 891	38 · 3	37 · 0	45 · 1	33 · 5	58	1877	8	1878	3 · 09	45 · 0	20
Valencia	29 · 900	45 · 0	42 · 9	49 · 9	40 · 4	57	1884, 88	24	1886	5 · 93	43 · 9	19
Roche's Point	29 · 908	43 · 5	42 · 1	48 · 2	39 · 4	58	1873	25	1882	5 · 16	—	—
Pembroke	29 · 914	43 · 9	42 · 6	47 · 0	40 · 5	55	1876	19	1890	3 · 96	46 · 0	20
Scilly	29 · 950	47 · 4	45 · 5	49 · 8	43 · 6	57	1876	30	1890	4 · 00	—	—
Prawle Point	29 · 976	42 · 8	41 · 4	47 · 3	38 · 5	55*	1881, 88	25*	1885, 87, 90	3 · 77	—	—
Jersey	29 · 993	43 · 5	41 · 7	47 · 7	39 · 7	61	1876	19	1871	3 · 76	62 · 6	25
Hurst Castle	29 · 962	40 · 9	40 · 1	45 · 9	36 · 7	58	1876	19	1890	2 · 77	—	—
Dover	29 · 954	40 · 0	38 · 9	44 · 7	35 · 9	56	1880	12	1890	2 · 79	—	—
LONDON	29 · 956	38 · 0	36 · 8	44 · 3	34 · 0	58	1873, 88, 91	11	1878	2 · 11	11 · 8†	5†
Oxford	29 · 956	37 · 1	36 · 0	43 · 2	33 · 6	58	1888	6	1878	2 · 10	41 · 8	18
Cambridge	29 · 941	36 · 4	35 · 6	43 · 2	31 · 6	59	1878, 88	0	1879	1 · 82	41 · 2	18
Yarmouth	29 · 915	38 · 1	37 · 1	42 · 2	33 · 8	56	1873	15	1879	2 · 53	—	—

* 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, 30·31 in: at Lyons; 30·2 in: and upwards in an anticyclone lying over nearly the whole of France and the Spanish Peninsula, and extending northwards over the south of Ireland.
Lowest, 29·0 in: and less in a depression lying off the west of Norway.
Gradients moderate over the northern parts of our area, but slight in the south.
Barometer rising in all but the eastern parts of our Islands; falling at most of the Continental stations.

TEMPERATURE

Highest, 54° at Biarritz, 53° at Jersey, 52° at Brest and Lorient, 51° at Scilly and 50° at Brussels.
Lowest, (1) −18° F. at Haparanda, +13° at Hernösands, and 18° at Bodö; (2) 34° at Wick and Parsonstown; (3) 36° at Belfast and Lyons.
During yesterday the thermometer rose to 55° and upwards at most of the English stations and to 58° at Loughborough.

WIND

W. or NW. over northwestern Europe generally; strong in force on our more north and northwest coasts, and blowing a gale at Christiansund, Fraser, and Wick.
Light from the SE. over Central France and Western Germany.

WEATHER

Fine over the greater part of our Islands, but showery in the west and northwest of Scotland, with hail and sleet at Stornoway.
Cloudy over the western parts of the Continent, with rain in several isolated places, and snow at Christiansund. Fine and bright in Sweden.
Rain fell yesterday in most parts of northwestern Europe, and snow or sleet at several of the northern stations. A thunderstorm with unusually heavy hail passed over Flamborough Head at about midnight.

SEA

High at Flamborough Head, rough at Stornoway and Christiansund, and rather rough at Malin Hd., but moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression noticed off the north of Scotland yesterday has travelled away to the northeastward. There are at present no signs of the advance of any new disturbance, but small secondary systems are apparently passing across our northern districts and the North Sea.

FORECASTS

For the 24 hours ending at NOON on 20TH DECR 1898

DISTRICTS.		FORECASTS.
▼ 0	SCOTLAND NORTH	NW. winds, strong, perhaps a gale; squally, some cold showers.
▼ 1	SCOTLAND EAST	
2	ENGLAND N.E.	W. to NW. winds, fresh; changeable some cold showers.
3	ENGLAND EAST	NW. winds, moderate; fair generally, but perhaps local showers.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	
▼ 6	SCOTLAND WEST	W. to NW. winds, strong; changeable, some showers.
▼ 7	ENGLAND N.W.	
8	ENGLAND S.W.	Same as Nos 3 to 5.
▼ 9	IRELAND NORTH	NW. winds, backing later; fine at first, then cloudy with some rain.
10	IRELAND SOUTH	
	WARNINGS	At 9 40 am yesterday to districts 0 and 1. "Hoist North Cone". The signals are still flying in districts 6. 7. and 9.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29·50	44	41	NNW	9	c	4
Sumburgh Head							
Stornoway	29·81	37	37	NNW	5	osq	5
Aberdeen							
Shields							
Ardrossan							
Malin Head ...	30·01	44	39	NNW	5	bc	3
Belmullet	30·17	45	40	NW	8	o	*
Holyhead							
Valencia							
Scilly							
Jersey	30·30	52	52	WSW	3	rf	3
Hurst Castle ...							
Dungeness ...	30·17	53	53	WSW	4	c	3
North Foreland	30·16	55	53	SW	3	c	2
London (Westminster)							*
Yarmouth ...							
Rochefort ...	30·33	46	45	E	2	m	*

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 11TH TO THE 17TH DECR. 1898.

The general distribution of pressure was very similar to that noticed in the preceding week. Over the southern countries the weather was under the influence of a large anticyclone, while in the north it was affected by numerous cyclonic disturbances which visited our own northern coasts and afterwards moved across Scandinavia to Russia. The position of the anticyclone was however, somewhat different from that of last week, the highest pressures being found over the south-western, instead of the southern and south-eastern parts of the Continent. Owing to this the depressions in the north, after visiting the Norwegian coasts, moved in a track lying a little to the south of last, their centres moving directly across the more central parts of Sweden, and afterwards passing on to Central Russia. Over northern Europe the weather was therefore extremely unsettled, with frequent gales from the W.ern and N.ern and considerable falls of rain and snow, the fluctuations in temperature being sudden and often very large. In a modified degree our own northern coasts were affected in a similar manner. Rain was frequent, as also were the changes in temperature, and at times the wind increased considerably, from W. or NW. a stiff gale being experienced over Scotland on the 14th. In the southern parts of the Kingdom however, the weather was far drier and quieter, with temperature as a rule greatly in excess of the average. Over southern Europe the conditions were mostly fine and dry, the only exception occurring on the 13th and 14th when a shallow depression formed over the Gulf of Genoa and occasioned a little rain in some parts of northern Italy.

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); 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 Tuesday 20th December, 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 ...	29.28	−18	N	2	b	29.42	+ .21	−9	−9	+ 9	Z	0	f	5	b	*	−8	−20	—
	Hernösand ...	29.29	10	N	1	s	29.54	+ .44	6	5	— 7	Z	0	b	*	s	*	25	?	0.04
	Stockholm ...	29.18	28	W	2	b	29.52	+ .22	11	10	— 20	WNW	4	b	*	b	*	36	?	—
	Wisby	29.21	37	NNW	8	c	29.50	+ .05	24	22	— 14	N	9	o	8	c	*	39	24	—
	Karlstad ..	29.27	28	NNW	4	b	29.63	+ .31	21	19	— 14	NW	2	b	*	b	*	*	*	—
	Bodö	29.43	13	E	2	b	29.57	+ .46	15	?	— 3	E	4	b	1	b	*	18	10	—
	Christiansund ...	29.51	35	WSW	8	s	29.74	+ .76	37	32	+ 3	N	5	s	5	s	*	37	30	0.16
	Skudesnaes ...	29.47	40	NW	8	bc	29.96	+ .45	36	34	— 1	NNW	7	bc	4	bc	*	41	34	*
	Færder (Christiania Fjord)	29.26	37	WNW	6	b	29.69	+ .35	34	29	— 5	NW	4	b	3	b	*	39	34	—
	Skagen (The Scaw)	29.32	38	NW	4	bc	29.73	+ .21	38	33	— 1	NNW	4	bc	1	bc	*	45	36	0.04
	Fanö	29.60	38	W	6	b	29.85	+ .10	38	35	— 3	NW	6	b	*	b	*	43	36	0.08
	Sumburgh Head	29.75	39	NNW	3	o	30.13	+ .71	35	33	— 4	N	3	c	5	op.o	*	45	32	0.06
	Stornoway ...	30.14	37	NW	5	bc	30.29	+ .53	35	34	o	WNW	3	o	3	hq.c.bc	1.3	38	32	0.08
	Wick	29.96	36	NW	5	c	30.24	+ .62	32	32	— 2	NW	2	c	2	c.s	*	40	30	0.10
	Nairn	30.08	37	NW	2	b	30.32	+ .59	34	32	— 3	W	1	bc	1	b	*	38	31	0.07
	Aberdeen ...	29.94	37	WNW	9	bq	30.30	+ .58	33	31	— 4	WNW	3	bc	3	sp.hq.s	3.8	38	32	0.02
British Isles.	Leith	30.05	38	WSW	3	b	30.37	+ .54	34	32	— 6	W	3	bcm	*	b	*	43	32	—
	Shields	30.04	36	WSW	3	b	30.32	+ .43	34	32	— 5	W	3	bc	2	b	*	44	30	—
	Spurn Head ...	30.02	41	WNW	6	b	30.29	+ .30	36	34	— 5	NW	5	b	5	b	*	45	35	—
	York	30.06	40	N	3	b	30.38	+ .38	33	31	— 6	WNW	1	b	*	e.b	3.5	47	32	—
	Loughborough ...	30.15	40	W	3	c	30.39	+ .30	31	30	— 7	W	1	b	*	hq.ep.b	*	44	31	0.09
	Ardrossan ...	30.17	38	WNW	3	b	30.42	+ .51	35	34	— 7	Z	0	bcf	0	eph.b	*	45	33	0.01
	Malin Head ...	30.24	42	WNW	5	cq	30.42	+ .45	44	44	+ 2	NNW	4	c	3	bc.cq	*	45	39	0.01
	Belmullet ...	30.38	44	N	4	b	30.56	+ .35	40	38	— 6	NW	2	c	*	c.b	*	47	38	0.03
	Donaghadee ...	30.21	40	WNW	6	b	30.47	+ .44	36	34	o	W	5	bc	4	b	*	44	34	0.06
	Liverpool (Bidston)	30.19	43	NW	6	c	30.43	+ .35	41	36	— 2	NW	4	b	4	p.c	*	45	40	0.02
	Holyhead ...	30.23	45	NW	8	chq	30.47	+ .35	44	39	+ 1	NW	7	c	5	c.chq	*	45	39	0.01
	Parsonstown ...	30.34	38	Z	0	b	30.56	+ .33	31	31	— 3	Z	0	o	*	b	5.1	45	29	—
	Valencia ...	30.41	46	NNW	2	bc	30.59	+ .30	36	35	— 6	NE	1	bc	2	bc	5.0	49	35	0.02
	Roche's Point ..	30.36	44	NNW	3	b	30.57	+ .29	38	36	— 3	NW	3	b	3	b	*	48	35	—
	Pembroke (St. Ann's Hd.)	30.28	47	NNW	4	c	30.48	+ .27	41	37	— 3	NNW	4	b	3	c	5.4	47	40	—
	Scilly	30.30	48	NNW	4	c	30.49	+ .30	47	43	— 4	N	5	c	3	op.c	0.8	52	42	0.03
	Prawle Point ...	30.31	39	NNW	2	b	30.49	+ .32	35	34	— 12	NNW	2	bc	2	c.b	*	50	35	0.01
	Jersey (St. Aubin's)	30.25	49	NNW	3	o	30.45	+ .29	43	39	— 10	NNW	3	bc	3	c.o.b	*	54	42	0.02
	Hurst Castle ...	30.23	42	NW	2	bw	30.43	+ .29	36	34	— 10	NNW	2	bw	2	bw	*	48	35	—
	Dungeness ...	30.16	40	WNW	3	b	30.35	+ .28	32	31	— 16	WNW	3	c	2	c.b	*	48	29	—
	North Foreland	30.14	40	WNW	3	b	30.30	+ .22	37	34	— 8	WNW	5	bc	3	b	*	45	36	—
	London (Brixton) ...	30.18	41	WNW	2	b	30.39	+ .26	35	32	— 11	NW	1	bc	*	bc.b	3.5	46	33	—
	Oxford	30.24	40	NW	3	o	30.42	+ .28	34	32	— 9	NW	2	b	*	o	*	46	33	—
	Cambridge ...	30.14	40	W	2	c	30.36	+ .26	33	31	— 8	NNW	2	bc	*	c	4.7	46	30	—
	Yarmouth ...	30.01	41	WNW	4	b	30.25	+ .24	37	36	— 4	WNW	5	cq	4	b	*	44	33	0.03
Germany & Holland.	Cuxhaven ...	29.69	41	W	6	o	29.86	+ .02	42	42	— 2	NNW	6	c	*	o	*	45	39	0.04
	Berlin	29.74	41	W	5	b	29.96	— .13	39	37	— 6	WNW	5	c	*	b	*	50	37	0.35
	Wiesbaden ...	*	*	*	*	*	30.12	+ .02	38	36	— 9	W	2	bc	*	*	*	50	37	0.04
	Munich	30.05	44	W	6	o	30.12	— .04	34	32	— 7	W	5	c	*	o	*	48	34	0.24
	The Helder ...																*			
Belgium.	Brussels ...	*	*	*	*	*									*		*			
	Cape Gris Nez ..	?	43	NW	4	m	?	?	38	35	— 16	N	5	bc	5	m	*	54	36	—
	Paris	30.08	47	SSW	2	o	30.33	+ .14	35	34	— 10	NW	2	b	*	o	*	48	34	—
	Brest	30.28	50	NNE	2	o	30.44	+ .24	44	43	— 8	NE	2	c	2	o	*	54	37	0.12
	Lorient	30.26	51	NE	4	o	30.44	+ .23	44	41	— 8	NNE	4	b	3	o	*	55	41	0.04
France &	Rochefort ...	30.23	46	S	2	f	30.34	+ .09	43	42	o	NE	4	b	*	f	*	47	39	0.16
	Belfort														*		*			
	Lyons	30.26	39	E	1	f	30.26	— .05	42	42	+ 6	NNW	1	r	*	f	*	43	36	—
	Nice	30.12	47	Z	0	b	30.19	— .05	41	39	— 3	E	2	b	2	b	*	54	39	—
	Perpignan ...	30.23	51	NW	3	b	30.21	— .07	51	47	+ 3	N	2	b	*	b	*	61	46	—
	Biarritz ...	30.23	55	W	4	o	30.22	— .02	51	50	— 3	SSW	2	o	3	o	*	57	50	0.24
Peninsula.	Corunna ...																*			
	Lisbon	30.30	52	N	2	b	30.29	— .05	47	44	+ 3	N	1	bc	*	b	*	55	44	—
	Azores (P. Delgada)	30.17	57	NNE	4	b	30.44	— .06	54	50	— 4	N	2	b	2	b	*	63	54	0.08

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 2·0 hrs;

WEATHER CHARTS

FOR Tuesday, 20th December, 1898

BAROMETER, WIND AND SEA.

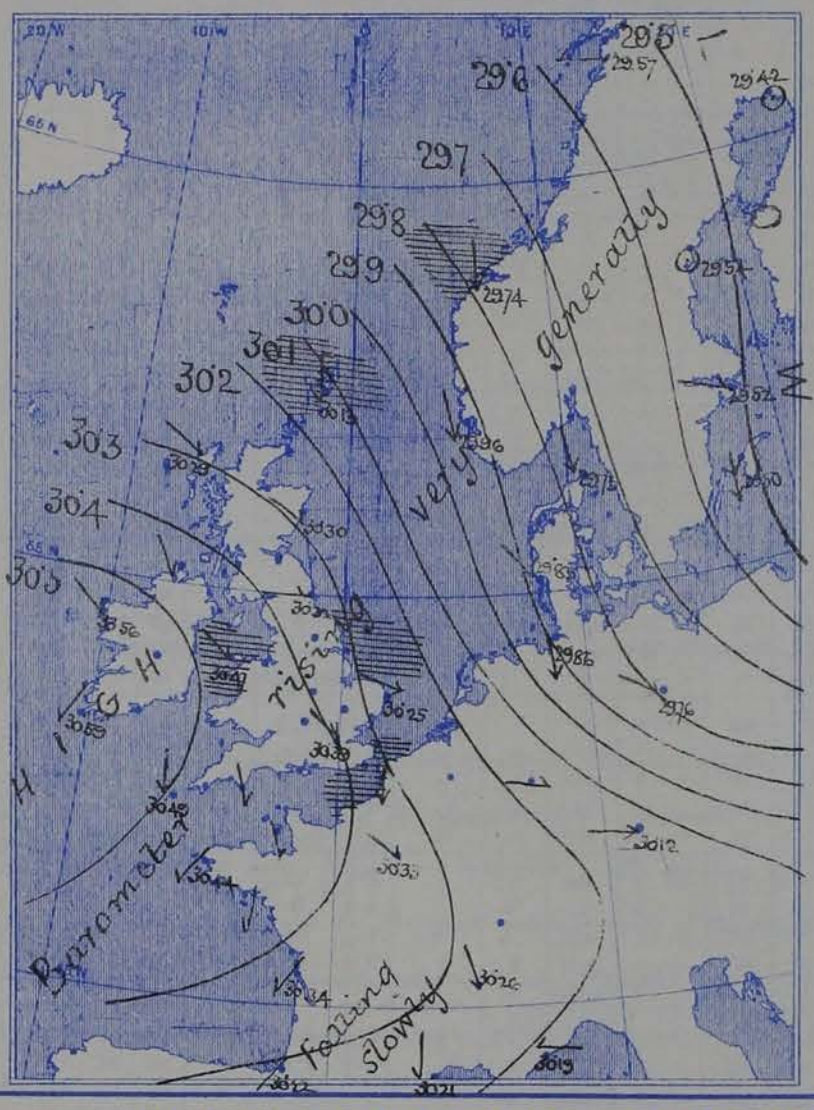
BAROMETER—Isobars are drawn for each tenth of an inch.

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* ▩

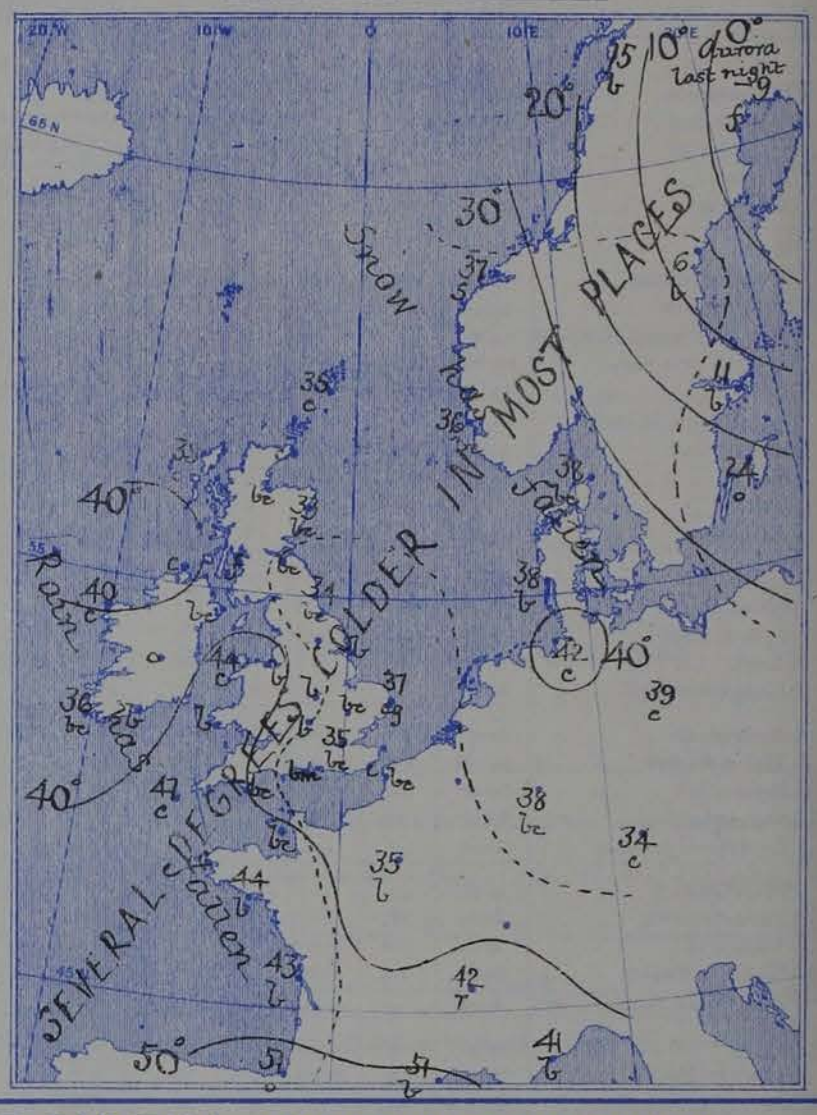


TEMPERATURE & WEATHER.

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 DECEMBER.*

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 · 656	39 · 8	38 · 3	42 · 8	35 · 5	53	1890	19	1877	4 · 27	—	—
Stornoway	29 · 688	39 · 6	38 · 7	43 · 3	34 · 4	54	1880	15	1880	5 · 64	25 · 4	13
Wick	29 · 699	38 · 3	37 · 1	42 · 4	33 · 0	55	1889, 94	10	1882	3 · 17	—	—
Nairn	29 727	37 · 2	35 · 7	42 · 2	32 · 4	57	1888, 90, 91, 92, 94	10	1882	1 . 94	—	—
Aberdeen	29 · 758	37 · 0	35 · 3	42 · 0	32 · 8	58	1873	6	1882	3 · 11	39 · 9	20
Leith	29 · 797	38 · 7	37 · 2	44 · 1	33 · 7	58	1873, 88	6	1882	1 · 89	—	—
Shields	29 · 836	38 · 4	37 · 0	43 · 1	33 · 9	59	1873	10	1878, 79	2 · 32	—	—
Spurn Head	29 · 870	38 · 9	37 · 8	42 · 6	35 · 4	55*	1888	19*	1891	2 · 05	—	—
York	29 · 886	36 · 6	35 · 6	42 · 5	32 · 4	59	1888, 91	0	1879	2 · 21	26 · 5	12
Loughborough	29 · 922	36 · 4	35 · 4	43 · 0	32 · 3	59*	1888	7*	1890	2 · 24	—	—
Ardrossan	29 · 809	40 · 3	39 · 1	44 · 7	36 · 2	55	1880	15	1879	3 · 66	—	—
Malin Head	29 · 768	41 · 3	39 · 6	45 · 2	38 · 1	—	—	—	—	—	—	—
Belmullet	29 · 822	42 8	40 · 9	46 · 9	39 · 0	—	—	—	—	5 · 36	—	—
Donaghadee	29 · 840	40 · 4	39 · 5	45 · 8	36 · 3	56	1885, 88, 94	20	1879	2 · 85	—	—
Holyhead	29 · 876	42 · 8	41 · 2	46 · 5	39 · 2	56	1872, 88	25	1874	3 · 83	—	—
Liverpool	29 · 891	39 · 0	37 · 3	43 · 8	35 · 7	59	1891	13	1878	2 · 62	—	—
Parsonstown	29 · 891	38 · 3	37 · 0	45 · 1	33 · 5	58	1877	8	1878	3 · 09	45 · 0	20
Valencia	29 · 900	45 · 0	42 · 9	49 · 9	40 · 4	57	1884, 88	24	1886	5 · 93	43 · 9	19
Roche's Point	29 · 908	43 · 5	42 · 1	48 · 2	39 · 4	58	1873	25	1882	5 · 16	—	—
Pembroke	29 · 914	43 · 9	42 6	47 · 0	40 · 5	55	1876	19	1890	3 · 96	46 · 0	20
Scilly	29 · 950	47 · 4	45 · 5	49 · 8	43 · 6	57	1876	30	1890	4 · 00	—	—
Prawle Point	29 · 970	42 · 8	41 · 4	47 · 3	38 · 5	55*	1881, 88	25*	1885, 87, 90	3 · 77	—	—
Jersey	29 · 993	43 · 5	41 · 7	47 · 7	39 · 7	61	1876	19	1871	3 · 76	62 · 6	25
Hurst Castle	29 · 962	40 · 9	40 · 1	45 · 9	36 · 7	58	1876	19	1890	2 · 77	—	—
Dover	29 · 954	40 · 0	38 · 9	44 · 7	35 · 9	56	1880	12	1890	2 · 79	—	—
LONDON	29 · 956	38 · 0	36 · 8	44 · 3	34 · 0	58	1873, 88, 91	11	1878	2 · 11	11 · 8†	5†
Oxford	29 · 956	37 · 1	36 · 0	43 · 2	33 · 6	58	1888	6	1878	2 · 10	41 · 8	18
Cambridge	29 · 941	36 · 4	35 · 6	43 · 2	31 · 6	59	1878, 88	0	1879	1 · 82	41 2	18
Yarmouth	29 · 915	38 · 1	37 · 1	42 · 2	33 · 8	56	1873	15	1879	2 · 53	—	—

* 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 over Ireland; 30.2 ins. and upwards in an anticyclone embracing nearly the whole of our Islands and France.
Lowest 29.5 ins. and less over the Gulf of Bothnia.
Gradients slight generally, but moderate over Germany and the E^rn. parts of the North Sea.
Barometer rising at all but the S^w. French stations.

TEMPERATURE

Highest 51° at Biarritz and Perpignan, 47° at Scilly, 44° at Brest and Lorient, and 43° at Jersey & Rochefort.
Lowest −9° F. at Haparanda, +6° at Hernösand, 11° at Stockholm, and 15° at Bodö, lowest in our Islands 31° at Loughborough and Parsonstown.
Frost occurred last night in many parts of the United Kingdom, the lowest readings reported being:- (1) In the screen 29° at Dungeness and Parsonstown, and 30° at Wick and Cambridge; (2) on the grass, 25° at Loughborough.

WIND

N^by. or NW^by. over nearly the whole of western Europe; light to fresh in force in our Islands, but strong on the eastern shores of the North Sea, and blowing a gale at Wisby.
Variable in the south of France; W^by. in Germany; calm in the Gulf of Bothnia.

WEATHER

Fine over W^rn. Europe generally, but cloudy on our own extreme N. and NW. coasts. Snow reported at Christiansund.
Snow showers fell yesterday in the N. of Scotland, and a little rain at many of our W^rn. and S^w. stations, as well as in Denmark, Germany and France.

SEA

Rather rough off the Shetlands and W. of Norway, as well as at Spurn Hd., Holyhead and Cape Gris Nez, moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone is at present spreading E^wds., but the rise of the barometer is slackening in the extreme N. and NW. It seems not unlikely that a fresh depression will shortly appear off the N. of Scotland.

FORECASTS

For the 24 hours ending at NOON on 21^ST. DECEMBER 1898

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	W^by. winds, moderate or fresh, fair at first, cloudy later, with some snow.
1	SCOTLAND EAST	W^by. winds, light, fair at first, less settled later.
2	ENGLAND N.E.	Same as No. 5.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	NW^by. winds, light or moderate, fair generally, frost at night.
6	SCOTLAND WEST	Same as No. 1.
7	ENGLAND N.W.	NW^by. to W^by. winds, moderate, fair generally.
8	ENGLAND S.W.	N^by. and NW^by. winds, moderate, fair generally.
9	IRELAND NORTH	NW^by. to W^by. winds, fair at first, some rain later.
10	IRELAND SOUTH	Same as No. 8.
	WARNINGS	None issued

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.36	40	34	WNW	8	c	5
Sumburgh Head	29.50	40	38	NNW	3	op	6
Stornoway	29.97	38	36	NW	5	c	6
Aberdeen	29.83	37	33	WNW	6	bq	4
Shields	29.92	43	40	WSW	4	b	2
Ardrossan	30.04	41	40	WNW	5	b	4
Malin Head ...	30.11	42	40	NW	6	bc	5
Belmullet	30.32	45	43	N	3	c	*
Holyhead	30.16	45	43	NNW	6	c	5

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30.24	49	44	NW	4	bc	*
Scilly	30.25	47	45	N	4	op	3
Jersey	30.20	54	52	NW	3	c	3
Hurst Castle ...	30.18	46	42	N	2	b	1
Dungeness ...	30.11	46	43	NW	3	c	2
North Foreland	30.10	45	40	WNW	4	b	2
London (Westminster)	30.12	47	42	NW	2	bc	*
Yarmouth ...	29.99	44	41	WNW	3	b	3
Rochefort ...	30.24	47	46	SE	2	f	*

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

Weather in morning fine over the greater part of our Islands, but showery in S. and NW. of Scotland, with hail and sleet at Stornoway. Fine at many of the Scandinavian stations, but most reported at Christiansund; dull over France and the central and E^rn. parts of the Continent generally with fog over central France; rain in several parts of that country, Germany and Denmark, and snow at Hangö. Fine over Italy and the Spanish Peninsula. Snow showers falling later in the N. of Scotland, and a little rain at many of our own W^rn. and S^rn. stations.

Temperature fallen over W^rn. and N^rn. Europe generally, but risen in Austria and central and S^rn. Russia. Morning readings highest (1) 60° at Malta, and 57° at Cagliari; (2) 54° at Biarritz; 53° at Jersey, and 52° at Brest and Lorient. Lowest −18° F. at Haparanda, −7° at Ulleaborg, −3° at Archangel, and 0 yers at Moscow; lowest in our Islands 34° at Wick and Parsonstown. Rising during day to 45° and upwards at most of the English and Irish stations, and exceeding 50° at Scilly and Jersey, exceeding 55° in the S. of France, and reaching 61° at Perpignan. Frost occurring in many parts of our Islands at night.

Wind W. or NW. over northwestern Europe generally; strong in force on our own north and northwest coasts and blowing a gale at some of the Scandinavian stations. Moderate from the W^rn. or SW^rn. over Germany, Austria and the south of Russia; S. over the northern parts of Russia; variable or E. in the north of Scandinavia. Light from between N. and E. over Italy and the Spanish Peninsula. Subsequently increasing to a gale on some of the more exposed parts of our north and northwest coasts.

Barometer highest 30.3 ins. and upwards over Italy and the S^rn. parts of the Spanish Peninsula; 30.2 ins. and upwards in an anticyclone covering the whole of S^rn. Europe, and extending northwards over the S. of Ireland. Lowest 29.0 ins. and less in a depression with its centre off the W. of Norway, 29.0 ins. and less in a small secondary near Hangö. Depression subsequently moving E^rnly, and barometer rising in all parts of our Islands,—quickly 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.

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 Wednesday, 21st December, 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 ...	29.62	-17	SW	0	b	29.80	+.38	-8	?	+1	N	2	b	*	b	*	-4	-18	-
	Hernösand ...	29.82	1	SW	0	b	29.97	+.43	10	8	+4	SW	0	b	*	b	*	10	-2	-
	Stockholm ...	29.85	11	NW	4	b	30.03	+.51	16	15	+5	WNW	4	c	*	b	*	28	7	-
	Wisby	29.79	26	N	10	bc	30.03	+.53	28	26	+4	NNW	8	o	*	bc	*	28	21	-
	Karlstad ...	29.99	15	SW	0	b	30.13	+.50	6	6	-15	N	2	b	*	b	*	*	*	-
	Bodö	29.79	31	NW	4	S	29.90	+.33	26	23	+11	E	2	o	1	S	*	32	14	-
	Christiansund ...	30.00	33	NNW	8	S	30.10	+.36	35	33	-2	WNW	6	S	6	S	*	37	32	0.12
	Skudesnaes ...	30.16	32	N	2	c	30.28	+.32	29	28	-7	SW	0	b	2	c	*	37	28	*
	Færder (Christiania Fjord)	29.95	34	NW	4	b	30.16	+.47	30	26	-4	NNW	2	b	1	b	*	36	30	-
	Skagen (The Scaw)	30.00	38	N	4	bc	30.41	+.48	35	31	-3	NW	1	b	0	bc	*	39	30	-
	Fanö	30.10	35	NW	4	b	30.28	+.43	29	28	-9	E	1	b	*	b	*	39	28	-
	Sumburgh Head	30.15	34	SW	0	0	30.17	+.04	44	43	+9	W	2	o	4	0	*	46	34	0.05
	Stornoway ...	30.25	46	NW	4	0	30.32	+.03	41	40	+6	NW	3	o	3	rq.o	0.0	47	30	0.50
	Wick	30.15	37	W	2	r	30.29	+.05	38	37	+6	W	2	c	2	r	*	43	30	0.20
	Nairn	30.23	42	W	2	r	30.34	+.02	43	41	+9	WNW	1	o	1	r	*	45	32	0.09
	Aberdeen ...	30.24	34	S	2	ors	30.34	+.04	39	38	+6	W	2	c	2	o,rs,r	0.8	40	32	0.13
British Islands.	Leith	30.25	42	W	2	o	30.38	+.01	41	40	+7	WSW	2	m	*	0	*	44	32	-
	Shields	30.33	36	W	1	r	30.38	+.06	40	39	+6	W	2	o	2	bcm,r	*	40	32	0.12
	Spurn Head ...	30.35	39	WNW	4	o	30.38	+.09	39	38	+3	WNW	1	c	3	b,omr	*	39	35	0.05
	York	30.38	36	NNW	1	o	30.41	+.03	37	37	+4	NNW	1	b	*	c,rf	3.9	41	32	0.11
	Loughborough	30.44	33	NNW	1	c	30.42	+.03	42	41	+11	W	1	o	*	bc,o&p	*	44	30	0.02
	Ardrossan ...	30.33	48	W	4	r	30.40	-.02	46	46	+11	W	3	ow	2	c,r	*	48	35	0.02
	Malin Head ...	30.39	47	WNW	5	bcp	30.41	-.01	45	45	+1	NW	3	cpm	2	c,bcp	*	47	44	0.02
	Belmullet ...	30.56	47	WNW	2	o	30.49	-.07	46	43	+6	WSW	3	o	*	o	*	48	39	0.01
	Donaghadee ...	30.42	43	NW	4	c	30.44	-.03	42	42	+6	WNW	4	b	2	c	*	45	35	0.01
	Liverpool (Bidston)	30.43	45	WNW	4	c	30.45	+.02	46	44	+5	WNW	1	bc	2	bc.c	*	46	40	-
	Holyhead ...	30.47	45	W	4	o	30.45	-.02	47	46	+3	WNW	3	c	2	c.o	*	47	39	-
	Parsonstown ...	30.56	38	SW	0	b	30.51	-.05	40	39	+9	SW	0	o	*	b	3.2	43	31	-
	Valencia ...	30.60	43	SW	0	c	30.50	-.09	37	36	+1	SW	0	o	2	c	0.7	47	34	-
	Roche's Point ...	30.59	42	NW	2	b	30.52	-.05	34	33	-4	N	1	b	2	b	*	47	33	-
	Pembroke (St. Ann's Hd.)	30.51	45	NW	3	c	30.48	-.00	47	44	+6	NNW	2	o	3	b.c	4.5	47	40	-
	Scilly	30.53	47	N	3	bc	30.43	-.06	47	43	0	NNE	2	c	2	c.bc	2.3	49	41	-
	Prawle Point ...	30.52	40	NNW	2	b	30.47	-.02	40	38	+5	NW	2	c	2	b	*	50	35	-
	Jersey (St. Aubin's)	30.48	44	NNW	3	bc	30.45	-.00	48	45	+5	WNW	3	omr	3	c.bc	*	48	37	-
	Hurst Castle ...	30.47	36	NNW	1	bm	30.41	-.02	44	42	+8	N	2	cm	1	bcm	*	44	33	-
	Dungeness ...	30.40	32	NW	2	c	30.39	+.04	37	37	+5	NNW	2	o	2	bc,c,a	*	41	28	0.02
	North Foreland	30.40	38	WNW	6	b	30.40	+.10	40	39	+3	N	4	c	2	b	*	40	34	-
	London (Brixton) ...	30.44	36	NNW	1	b	30.42	+.03	42	41	+7	NE	2	og	*	bm,c,or	0.9	43	33	0.02
	Oxford	30.47	33	NW	2	bc	30.43	+.01	43	42	+9	NNW	2	c	*	bc	*	43	33	0.01
	Cambridge ...	30.43	33	NNW	2	b	30.43	+.07	37	37	+4	E	1	ogm	*	b,r	4.7	41	31	0.05
	Yarmouth ...	30.32	38	WNW	4	c	30.39	+.14	38	37	+1	NW	3	bc	4	hs.cg,c	*	40	34	0.08
Germany & Holland.	Cuxhaven ...	30.07	36	W	3	r	30.26	+.40	36	35	-6	NNE	2	b	*	hrp	*	43	34	0.04
	Berlin	30.04	32	WNW	4	b	30.19	+.43	32	31	-7	WNW	3	o	*	b	*	41	32	-
	Wiesbaden ...	*	*	*	*	*	30.29	+.17	34	32	-4	NW	2	bc	*	*	*	43	34	0.04
	Munich	30.15	32	SW	5	S	30.21	+.09	27	27	-7	W	4	c	*	S	*	37	27	0.04
	The Helder ...	30.21	41	NNW	3	bc	30.32		39	36		NNE	1	b	1	bc	*	45	37	0.08
Belgium.	Brussels ...	*	*	*	*	*	30.39		32	32		SW	0	f	*	o	*	39	32	0.08
	Cape Gris Nez ...	?	41	NNE	5	c	?	?	41	38	+3	ESE	1	f	1	c	*	45	36	-
	Paris	30.39	36	NNW	2	b	30.41	+.08	31	31	-4	SW	0	o	*	b	*	41	28	-
	Brest	30.52	42	NE†	1	c	30.49	+.05	39	37	-5	E	1	b	1	c	*	50	36	-
	Lorient	30.50	45	NNE	4	b	30.49	+.05	39	37	-5	SW	0	b	2	b	*	50	37	-
France &	Rochefort ...	30.36	42	NNE	4	b	30.43	+.09	36	35	-7	ENE	3	b	*	b	*	50	32	-
	Belfort	30.27	34	W	3	o	30.30		30	28		SW	1	o	*	o	*	40	30	-
	Lyons	30.32	34	NNW	2	b	30.34	+.08	34	32	-8	N	2	o	*	b	*	43	32	-
	Nice	29.86	48	E	1	b	29.91	-.28	40	36	-1	SW	0	c	4	b	*	57	39	0.24
	Perpignan ...	30.19	52	NW	3	o	30.28	+.07	37	32	-14	NW	4	o	*	o	*	59	36	-
	Biarritz ...	30.29	47	NNE	4	o	30.38	+.16	33	32	-18	E	2	b	2	o	*	54	32	-
Peninsula.	Corunna ...																*			
	Lisbon	30.25	49	N	3	b	30.23	-.06	42	41	-5	NNE	2	b	*	b	*	54	42	-
	Azores (P. Delgada)	30.10	54	NNE	3	bc	29.99	-.15	60	57	+6	WSW	3	c	3	bc	*	61	54	0.08

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 5.2 hrs;

WEATHER CHARTS

FOR Wednesday, 21st December, 1898

BAROMETER, WIND AND SEA.

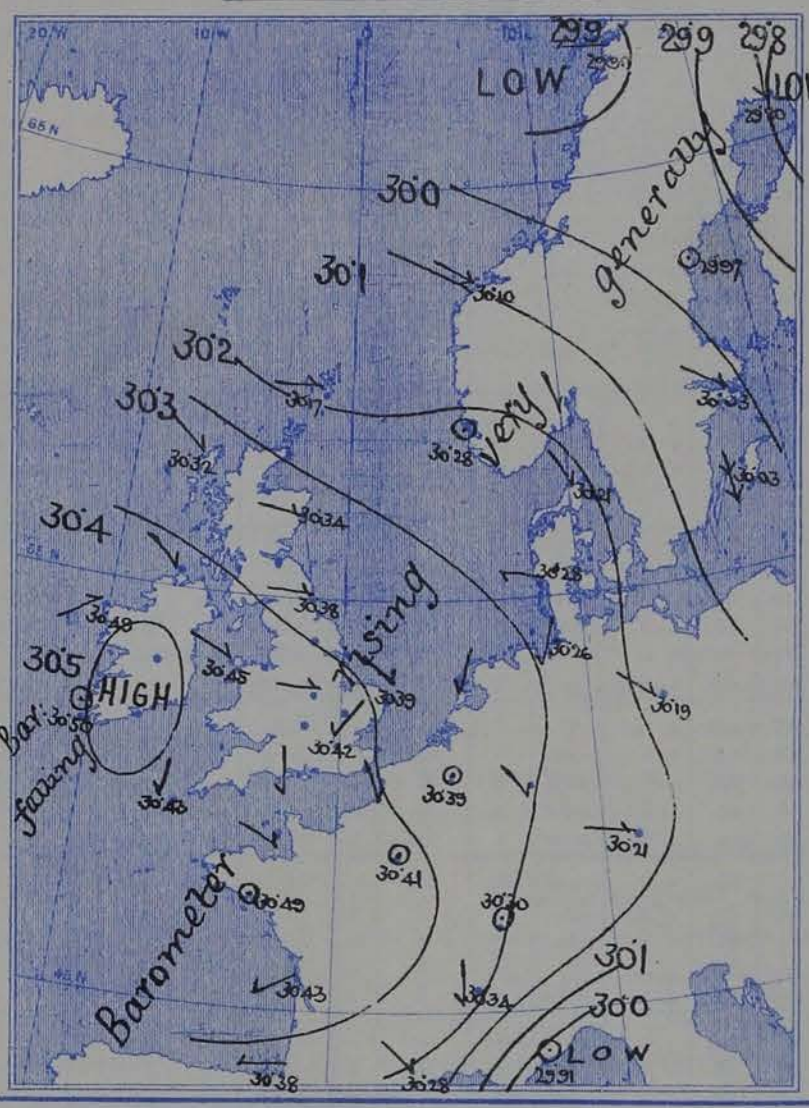
BAROMETER—Isobars are drawn for each tenth of an inch.

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*

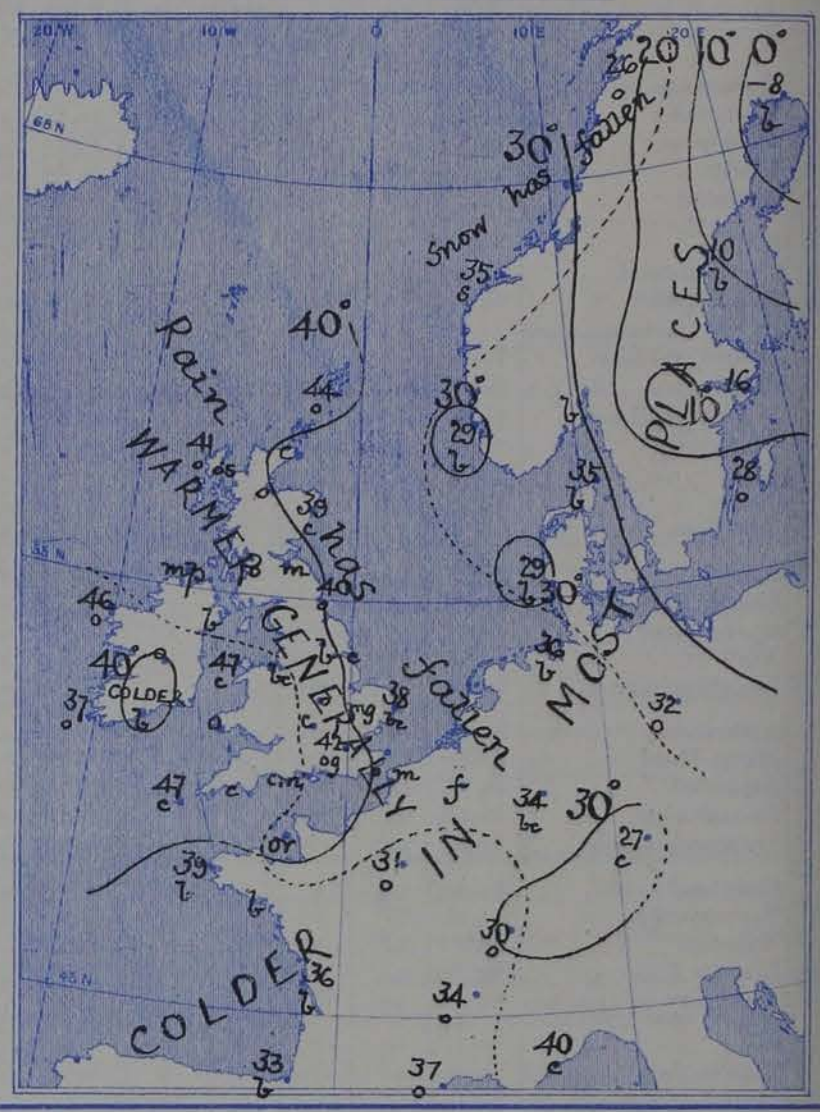


TEMPERATURE & WEATHER.

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 DECEMBER.

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 · 656	39 · 8	38 · 3	42 · 8	35 · 5	53	1890	19	1877	4 · 27	—	—
Stornoway	29 · 688	39 · 6	38 · 7	43 · 3	34 · 4	54	1880	15	1880	5 · 64	25 · 4	13
Wick	29 · 699	38 · 3	37 · 1	42 · 4	33 · 0	55	1889, 94	10	1882	3 · 17	—	—
Nairn	29 · 727	37 · 2	35 · 7	42 · 2	32 · 4	57	1888, 90, 91, 92, 94	10	1882	1 · 94	—	—
Aberdeen	29 · 758	37 · 0	35 · 3	42 · 0	32 · 8	58	1873	6	1882	3 · 11	39 · 9	20
Leith	29 · 797	38 · 7	37 · 2	44 · 1	33 · 7	58	1873, 88	6	1882	1 · 89	—	—
Shields	29 · 836	38 · 4	37 · 0	43 · 1	33 · 9	59	1873	10	1878, 79	2 · 32	—	—
Spurn Head	29 · 870	38 · 9	37 · 8	42 · 6	35 · 4	55*	1888	19*	1891	2 · 05	—	—
York	29 · 886	36 · 6	35 · 6	42 · 5	32 · 4	59	1888, 91	0	1879	2 · 21	26 · 5	12
Loughborough	29 · 922	36 · 4	35 · 4	43 · 0	32 · 3	59*	1888	7*	1890	2 · 24	—	—
Ardrossan	29 · 809	40 · 3	39 · 1	44 · 7	36 · 2	55	1880	15	1879	3 · 66	—	—
Malin Head	29 · 768	41 · 3	39 · 6	45 · 2	38 · 1	—	—	—	—	—	—	—
Belmullet	29 · 822	42 · 8	40 · 9	46 · 9	39 · 0	—	—	—	—	5 · 36	—	—
Donaghadee	29 · 840	40 · 4	39 · 5	45 · 8	36 · 3	56	1885, 88, 94	20	1879	2 · 85	—	—
Holyhead	29 · 876	42 · 8	41 · 2	46 · 5	39 · 2	56	1872, 88	25	1874	3 · 83	—	—
Liverpool	29 · 891	39 · 0	37 · 3	43 · 8	35 · 7	59	1891	13	1878	2 · 62	—	—
Parsonstown	29 · 891	38 · 3	37 · 0	45 · 1	33 · 5	58	1877	8	1878	3 · 09	45 · 0	20
Valencia	29 · 900	45 · 0	42 · 9	49 · 9	40 · 4	57	1884, 88	24	1886	5 · 93	43 · 9	19
Roche's Point	29 · 908	43 · 5	42 · 1	48 · 2	39 · 4	58	1873	25	1882	5 · 16	—	—
Pembroke	29 · 914	43 · 9	42 · 6	47 · 0	40 · 5	55	1876	19	1890	3 · 96	46 · 0	20
Scilly	29 · 950	47 · 4	45 · 5	49 · 8	43 · 6	57	1876	30	1890	4 · 00	—	—
Prawle Point	29 · 970	42 · 8	41 · 4	47 · 3	38 · 5	55*	1881, 88	25*	1885, 87, 90	3 · 77	—	—
Jersey	29 · 993	43 · 5	41 · 7	47 · 7	39 · 7	61	1876	19	1871	3 · 76	62 · 6	25
Hurst Castle	29 · 962	40 · 9	40 · 1	45 · 9	36 · 7	58	1876	19	1890	2 · 77	—	—
Dover	29 · 954	40 · 0	38 · 9	44 · 7	35 · 9	56	1880	12	1890	2 · 79	—	—
LONDON	29 · 956	38 · 0	36 · 8	44 · 3	34 · 0	58	1873, 88, 91	11	1878	2 · 11	11 · 8†	5†
Oxford	29 · 956	37 · 1	36 · 0	43 · 2	33 · 6	58	1888	6	1878	2 · 10	41 · 8	18
Cambridge	29 · 941	36 · 4	35 · 6	43 · 2	31 · 6	59	1878, 88	0	1879	1 · 82	41 · 2	18
Yarmouth	29 · 915	38 · 1	37 · 1	42 · 2	33 · 8	56	1873	15	1879	2 · 53	—	—

* 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 over the southern parts of Ireland; 30·3 ins. and upwards in an anticyclone covering the whole of our Islands France and the Netherlands.
Lowest, 29·8 ins. and lors. in Lapland and also in a depression over Corsica.
Gradients slight. Barometer rising over Western Europe generally, but falling a little on our own southwest coasts.

TEMPERATURE

Highest, 48° at Jersey, 47° at Holyhead, Pembroke and Scilly, and 46° at Ardrossan and Belmullet.
Lowest, −8° F at Haparanda, +6° at Karlstad, and 10° at Hernösand; lowest in our Islands 34° at Rockel Point, and 35° at York, Cambridge & Dungeness
Frost occurred early last night over the inland parts of England; at Loughborough the thermometer on the grass fell to 24°.

WIND

Light from the W.ly or NW.ly over the greater part of our Islands, but N'ly at some of our extreme southern stations, and E'ly in the west of France.
N'ly or NW'ly at most of the Scandinavian and Danish stations, with a gale at Hirsby; W'ly in Germany.

WEATHER

Fine in isolated places, but cloudy or dull over the United Kingdom as a whole, with showers at Malin Hd.
Fine at most of the Continental stations, but dull over Central France and also in the west of Norway, with snow at Christiansund.
Since yesterday morning rain has fallen in all the more northern and eastern parts of our Islands, the amounts being mostly slight, but rather large at Stornoway. Lunar halos were seen at Rockel Point.

SEA

Slight or smooth generally, but rough at Christiansund

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone shows at present no signs of breaking up, and the milder weather which has spread over our Islands from the southwestward seems likely to prove merely temporary.

FORECASTS

For the 24 hours ending at NOON on 22ND DECR 1898

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	W.ly and NW.ly winds, light or moderate; cloudy, some showers.
1	SCOTLAND EAST	
2	ENGLAND N.E.	W.ly and NW.ly winds, light; fair generally.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	N.ly and NW.ly winds, light; fair generally.
6	SCOTLAND WEST	Same as Nos 0 and 1.
7	ENGLAND N.W.	Same as Nos 2 to 4
8	ENGLAND S.W.	Same as No 5
9	IRELAND NORTH	Same as Nos 0 and 1.
10	IRELAND SOUTH	Variable or N.ly airs; 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.		BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·05	34	32	N	6	c	3	Valencia	30·60	46	43	W	0	c	2
Sumburgh Head	30·19	37	33	NW	1	0	4	Scilly	30·53	47	43	N	4	c	2
Stornoway	30·17	47	46	WNW	5	r	5	Jersey	30·48	47	42	N	3	c	3
Aberdeen	30·28	36	33	WSW	2	ogm	3	Hurst Castle ...	30·46	43	38	N	3	bcm	2
Shields	30·36	39	35	W	3	bcm	2	Dungeness ...	30·37	39	37	NW	3	bc	2
Ardrossan	30·35	40	40	WSW	3	c	3	North Foreland	30·36	40	37	WNW	5	b	3
Malin Head ...	30·38	47	47	WNW	4	c	3	London (Westminster)	30·41	41	35	NW	3	b	*
Belmullet	30·56	47	44	WNW	3	0	*	Yarmouth ...	30·30	40	38	NW	4	cgq	4
Holyhead ...	30·49	44	41	NW	4	c	4	Rochefort ...	30·36	48	46	NE	4	b	*

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

Weather in morning fine over Western Europe generally, but cloudy on our own extreme north and northwest coasts. Cloudy or dull over the eastern and central countries generally and also over Italy and Central France; rain falling at Münster, Lyons and Lemberg, and snow in many parts of northern Russia as well as at Christiansund. Rain falling later in all the more northern and eastern parts of our Islands, as well as in Holland and Germany and snow at Munich.

Temperature fallen over northwestern, northern, and central Europe generally, but risen quickly in Italy. Morning readings highest 59° at Malta, 58° at Lisbon and 57° at Algiers; above 50° at most of the Mediterranean and Adriatic stations. Lowest −9° F. at Haparanda, −7° at Uleaborg, −2° at Kuopio, and 0° Zero at Archangel. Considerably below the freezing point over Scandinavia and northern Russia generally, and slightly below it at some stations in the central parts of England and Ireland. Not exceeding 40° all day in the eastern and central parts of Great Britain, but exceeding 45° on our western and southwestern coasts, and exceeding 55° in the south of France.

Wind N' or NW' over the whole of western and northern Europe. Light to fresh in force in our Islands, but strong on the eastern shores of the North Sea, and blowing a gale at Wisby. Moderate to fresh from the W'ward over Germany and Austria; light from the SW' over southern Russia, E' or NE' over northern Russia, calm in the Gulf of Bothnia. S' or SW' at most of the Italian stations. No important change occurring later.

Barometer highest 30·5 in: and upwards over Ireland; 30·2 in: and upwards in an anticyclone embracing nearly the whole of our Islands, France, Spain, and Algeria. Lowest 29·0 in: and less, in a large depression over Central Russia; 30·0 in: and less, in a small disturbance over the Gulf of Genoa. Small and very shallow depression appearing later over Scotland, and barometer falling slightly on our northern 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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DAILY WEATHER REPORT

for 8 a.m. on Thursday 22nd December, 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 ...	30·00	−18	N	0	bc	29·97	+·07	3	3	+ 11	S	4	s	#	fc	#	3	−16	0·14
	Hernösand ...	30·04	15	N	0	f	29·95	−·02	21	21	+ 11	S	2	c	#	f	#	?	−2	0·12
	Stockholm ...	30·16	18	WNW	2	bc	30·05	+·05	27	21	+ 11	N	2	c	c	bc	#	27	9	—
	Wisby	30·18	31	N	4	c	30·15	+·12	34	33	+ 6	WNW	4	s	#	c	#	34	23	—
	Karlstad ...	30·16	21	NNE	2	0	30·17	+·04	20	19	+ 14	WNW	2	bc	#	0	#	#	#	—
	Bodö																#			
	Christiansund ...	30·06	41	WSW	6	r	30·12	+·02	41	40	+ 6	WSW	6	r	5	r	#	41	34	0·24
	Skudesnaes ...	30·27	36	ESE	2	c	30·31	+·03	36	35	+ 7	E	1	c	2	c	#	37	25	#
	Færder (Christiania Fjord)	30·18	35	W	3	0	30·20	+·04	32	32	+ 2	NNE	1	m	1	0	#	34	30	—
	Skagen (The Scaw)	30·27	38	NW	1	0	30·22	+·01	39	39	+ 4	NW	1	b	0	0	#	43	32	—
	Fanö	30·38	35	W	1	b	30·31	+·03	41	40	+ 12	W	2	b	#	b	#	41	28	—
British Isles.	Sumburgh Head	30·22	43	W	2	c	30·09	−·05	44	41	0	SW	2	0	4	c	#	46	40	0·06
	Stornoway ...	30·26	44	WSW	3	0	30·00	−·32	45	44	+ 4	SW	6	0	6	pd, o	0·9	45	36	0·05
	Wick	30·29	41	W	2	bc	30·13	−·16	42	40	+ 4	W	2	bc	2	bc	#	44	37	0·03
	Nairn	30·32	44	N	0	0	30·16	−·18	43	40	0	WSW	3	bc	1	0	#	45	35	—
	Aberdeen ...	30·36	36	WNW	2	b	30·21	−·13	38	36	− 1	SW	2	bcm	1	bc, b	1·6	43	32	—
	Leith	30·37	44	W	2	m	30·28	−·10	47	43	+ 6	W	2	om	#	m	#	47	39	—
	Shields	30·40	42	WSW	2	om	30·36	−·02	43	42	+ 3	SW	3	o	2	bcm, om	#	44	39	—
	Spurn Head ...	30·41	41	SW	2	0	30·43	+·05	42	41	+ 3	SSW	2	o	4	p, o	#	42	38	0·01
	York	30·42	39	SW	1	bcm	30·43	+·02	41	40	+ 4	SE	1	f	#	bcm	0·8	45	36	—
	Loughborough ...	30·44	42	SE	1	0	30·45	+·03	39	38	− 3	SE	1	ogm	#.	cm, gm	#	46	39	—
	Ardrossan ...	30·37	47	S	2	om	30·27	−·13	47	47	+ 1	SSE	3	o	2	c om	#	50	45	—
	Malin Head ...	30·35	42	S	3	c	30·09	−·32	45	44	0	S	6	cg	3	bc, c	#	46	39	—
	Belmullet ...	30·34	44	S	4	c	30·05	−·44	48	45	+ 2	SSW	6	c	#	0, c	#	48	42	—
	Donaghadee ...	30·41	43	W	2	0	30·28	−·16	45	45	+ 3	W	3	c	1	0	#	47	40	—
	Liverpool (Bidston)	30·43	45	N	0	0	30·40	−·05	41	40	− 5	S	2	b	?	0	#	47	41	—
	Holyhead ...	30·43	47	SW	1	og	30·35	−·10	47	45	0	S	3	cm	2	og	#	48	44	—
	Parsonstown ...	30·42	41	S	1	0	30·24	−·27	46	43	+ 6	SE	1	o	#	o	0·0	47	39	—
	Valencia ...	30·34	47	SSE	3	0	30·15	−·35	50	45	+ 13	S	5	o	4	ov, o	0·0	50	36	—
	Roche's Point ..	30·42	47	SW	3	0	30·26	−·26	50	48	+ 16	SSW	5	o	4	o	#	50	34	—
	Pembroke (St. Ann's Hd.)	30·43	48	NE	1	0	30·34	−·14	47	45	0	S	3	og	3	o	0·2	49	46	—
	Scilly	30·41	47	ENE	1	0	30·31	−·12	49	45	+ 2	SSE	5	c	2	o	0·0	50	43	—
	Prawle Point ...	30·35	45	NNE	2	bc	30·42	−·05	44	41	+ 4	ESE	4	bc	3	bc	#	47	39	—
	Jersey (St. Aubin's)	30·44	45	WNW	3	c	30·50	+·05	41	38	− 7	SE	4	bc	3	p, bc, c	#	49	38	0·11
	Hurst Castle ...	30·44	43	NE	1	bm	30·48	+·07	44	40	0	S	3	c	2	bcm, bm	#	48	39	—
	Dungeness ...	30·44	41	NE	2	b	30·50	+·11	43	40	+ 6	S	3	b	2	bc, b	#	44	33	—
	North Foreland	30·48	39	N	0	b	30·51	+·11	41	38	+ 1	S	1	c	1	b	#	42	34	0·01
	London (Brixton) ...	30·47	33	NE	1	bf	30·50	+·08	32	31	− 10	N	0	f	#	fg, bf	0·0	44	30	—
	Oxford	30·48	39	NE	1	bc	30·50	+·07	31	31	− 12	SSE	1	f	#	bc, f	#	42	30	—
	Cambridge ...	30·47	35	ESE	1	bf	30·50	+·07	29	29	− 8	SSW	1	f b	#	b, f	0·3	41	25	—
	Yarmouth ...	30·48	36	W	1	bf	30·48	+·09	34	33	− 4	WSW	2	bm	3	b, bf	#	41	28	—
Germany & Holland.	Cuxhaven ...	30·38	36	N	0	c	30·36	+·10	37	36	+ 1	W	1	b	#	c	#	37	32	—
	Berlin	30·39	25	N	0	b	30·44	+·25	30	29	− 2	WNW	3	0	#	b	#	32	27	—
	Wiesbaden ...	#	#	#	#	#	30·56	+·27	25	24	− 9	NE	2	b	#	#	#	39	25	—
	Munich	30·37	21	W	3	b	30·51	+·30	18	18	− 9	W	3	0	#	b	#	30	12	0·32
	The Helder ...	30·42	39	N	0	bc	30·46	+·14	42	40	+ 3	WSW	1	c	0	bc	#	45	32	—
Belgium.	Brussels ...	#	#	#	#	#	30·54	+·15	27	27	− 5	ESE	1	f	#	b	#	41	25	—
	Cape Gris Nez ...	?	41	SE	1	m	?	?	37	36	− 4	SE	1	m	1	m	#	46	32	—
	Paris	30·46	33	NNE	2	b	30·54	+·13	25	25	− 6	NE	2	m	#	b	#	41	25	—
	Brest	30·37	41	NE	1	0	30·38	−·11	41	41	+ 2	ESE	4	0	2	0	#	45	36	—
	Lorient	30·42	50	NE	4	c	30·43	−·06	36	35	− 3	ESE	4	0	3	c	#	52	36	—
France &	Rochefort ...	30·40	41	E	1	0	30·40	−·03	32	31	− 4	ENE	4	c	#	bc, 0	#	46	30	—
	Belfort	30·43	30	NE	3	b	30·50	+·20	22	18	− 8	NE	2	b	#	b	#	35	22	—
	Lyons	30·37	33	N	3	b	30·46	+·12	26	?	− 8	N	1	b	#	b	#	39	25	—
	Nice	30·05	39	NE	6	b	30·22	+·31	34	29	− 6	NE	5	b	5	b	#	46	32	—
	Perpignan ...	30·32	40	NW	3	b	30·31	+·03	35	31	− 2	N	2	b	#	b	#	47	32	—
	Biarritz ...	30·32	39	E	3	b	30·27	−·11	30	30	− 3	ENE	4	m	2	b	#	41	30	—
Peninsula.	Corunna ...																#			
	Lisbon	30·17	49	N	3	b	30·19	−·04	42	37	0	NNE	4	b	#	b	#	61	41	—
	Azores (P. Delgada)	29·99	57	NNW	3	bc	29·93	−·06	55	51	− 5	N	2	c	3	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 0·4 hrs;

WEATHER CHARTS

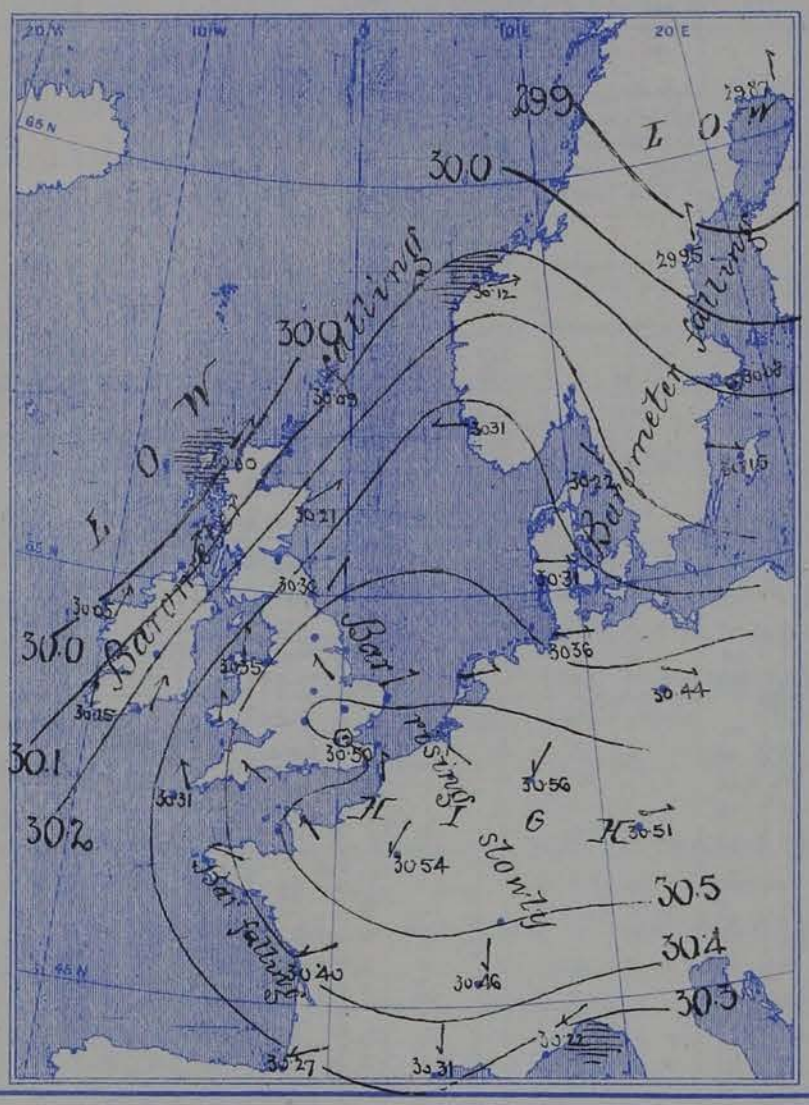
FOR Thursday, 22nd December, 1898

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* ⟶ ; }

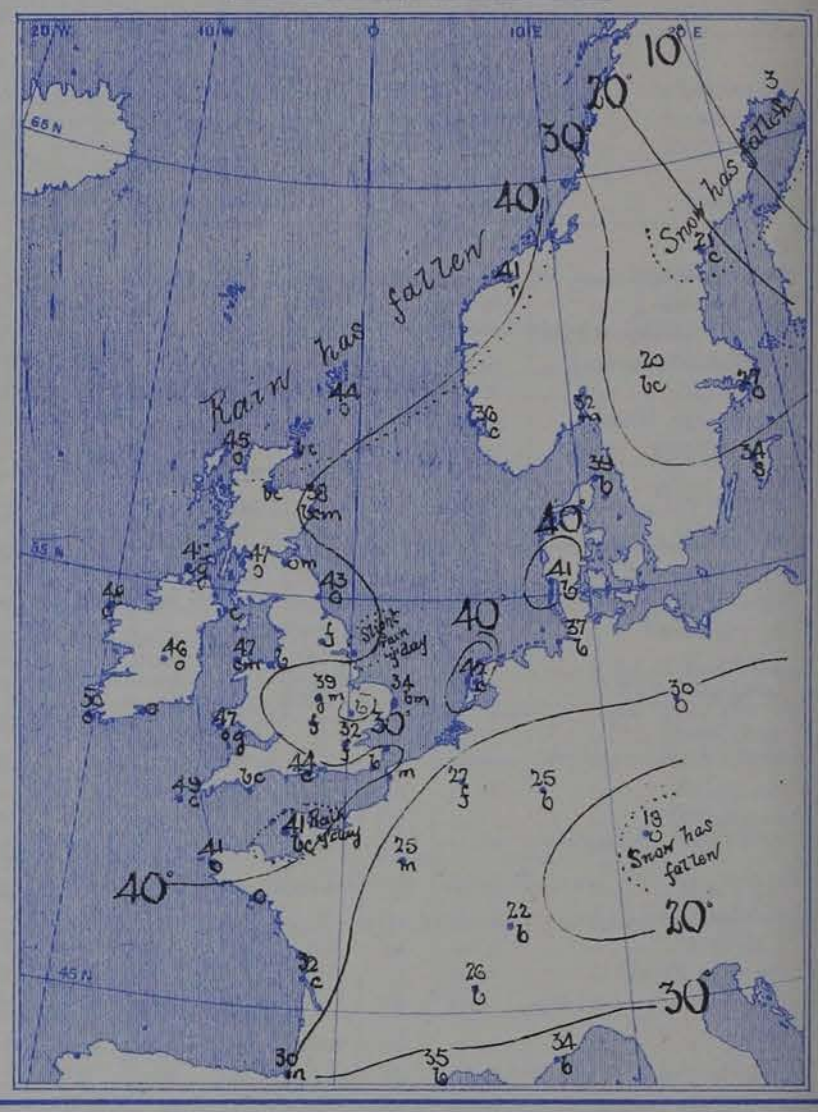
SEA—Rough ≡ ; *High* ▬



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 DECEMBER.*

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 · 656	39 · 8	38 · 3	42 · 8	35 · 5	53	1890	19	1877	4 · 27	—	—
Stornoway	29 · 688	39 · 6	38 · 7	43 · 3	34 · 4	54	1880	15	1880	5 · 64	25 · 4	13
Wick	29 · 699	38 · 3	37 · 1	42 · 4	33 · 0	55	1889, 94	10	1882	3 · 17	—	—
Nairn	29 · 727	37 · 2	35 · 7	42 · 2	32 · 4	57	1888, 90, 91, 92, 94	10	1882	1 . 94	—	—
Aberdeen	29 · 758	37 · 0	35 · 3	42 · 0	32 · 8	58	1873	6	1882	3 · 11	39 · 9	20
Leith	29 · 797	38 · 7	37 · 2	44 · 1	33 · 7	58	1873, 88	6	1882	1 · 89	—	—
Shields	29 · 836	38 · 4	37 · 0	43 · 1	33 · 9	59	1873	10	1878, 79	2 · 32	—	—
Spurn Head	29 · 870	38 · 9	37 · 8	42 · 6	35 · 4	55*	1888	19*	1891	2 · 05	—	—
York	29 · 886	36 · 6	35 · 6	42 · 5	32 · 4	59	1888, 91	0	1879	2 · 21	26 · 5	12
Loughborough	29 · 922	36 · 4	35 · 4	43 · 0	32 · 3	59*	1888	7*	1890	2 · 24	—	—
Ardrossan	29 · 809	40 · 3	39 · 1	44 · 7	36 · 2	55	1880	15	1879	3 · 66	—	—
Malin Head	29 · 768	41 · 3	39 · 6	45 · 2	38 · 1	—	—	—	—	—	—	—
Belmullet	29 · 822	42 · 8	40 · 9	46 · 9	39 · 0	—	—	—	—	5 · 36	—	—
Donaghadee	29 · 840	40 · 4	39 · 5	45 · 8	36 · 3	56	1885, 88, 94	20	1879	2 · 85	—	—
Holyhead	29 · 876	42 · 8	41 · 2	46 · 5	39 · 2	56	1872, 88	25	1874	3 · 83	—	—
Liverpool	29 · 891	39 · 0	37 · 3	43 · 8	35 · 7	59	1891	13	1878	2 · 62	—	—
Parsonstown	29 · 891	38 · 3	37 · 0	45 · 1	33 · 5	58	1877	8	1878	3 · 09	45 · 0	20
Valencia	29 · 900	45 · 0	42 · 9	49 · 9	40 · 4	57	1884, 88	24	1886	5 · 93	43 · 9	19
Roche's Point	29 · 908	43 · 5	42 · 1	48 · 2	39 · 4	58	1873	25	1882	5 · 16	—	—
Pembroke	29 · 914	43 · 9	42 · 6	47 · 0	40 · 5	55	1876	19	1890	3 · 96	46 · 0	20
Scilly	29 · 950	47 · 4	45 · 5	49 · 8	43 · 6	57	1876	30	1890	4 · 00	—	—
Prawle Point	29 · 970	42 · 8	41 · 4	47 · 3	38 · 5	55*	1881, 88	25*	1885, 87, 90	3 · 77	—	—
Jersey	29 · 993	43 · 5	41 · 7	47 · 7	39 · 7	61	1876	19	1871	3 · 76	62 · 6	25
Hurst Castle	29 · 962	40 · 9	40 · 1	45 · 9	36 · 7	58	1876	19	1890	2 · 77	—	—
Dover	29 · 954	40 · 0	38 · 9	44 · 7	35 · 9	56	1880	12	1890	2 · 79	—	—
LONDON	29 · 956	38 · 0	36 · 8	44 · 3	34 · 0	58	1873, 88, 91	11	1878	2 · 11	11 · 8†	5†
Oxford	29 · 956	37 · 1	36 · 0	43 · 2	33 · 6	58	1888	6	1878	2 · 10	41 · 8	18
Cambridge	29 · 941	36 · 4	35 · 6	43 · 2	31 · 6	59	1878, 88	0	1879	1 · 82	41 · 2	18
Yarmouth	29 · 915	38 · 1	37 · 1	42 · 2	33 · 8	56	1873	15	1879	2 · 53	—	—

* 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 over the S.E. of England, Belgium, W^n. and S^n. Germany and the N^n. and central parts of France; 30.3 ins. and upwards in an anticyclone extending from the Continent over the whole of England and the North Sea.
Lowest 29.9 ins. and less in the N. of Sweden, 30.0 ins. and less in a depression moving N^wds. outside our own N.W. coasts.
Gradients moderate over Ireland and Scotland, but slight elsewhere. Barometer falling in the W. and N. of our Islands as well as in the W. of France and in Sweden and Denmark, rising elsewhere.

TEMPERATURE

Highest 50° at Valencia (Ireland) and Roche's P^t.; 49° at Scilly, 48° at Belmullet, and 47° at Leith, Ardrossan, Holyhead and Pembroke.
Lowest (1) 3° at Haparanda, and 20° at Karlstad; (2) 18° at Munich, & 22° at Belfort; (3) 29° at Cambridge & 31° at Gosport.
Frost occurred last night in the E. and S.E. of England, the lowest temperatures reported being 25° at Cambridge, and 28° at Yarmouth.

WIND

S^ly. over the greater part of our Islands, – inclining to S.E. in the south and to S.W. in the north; light or moderate in force generally, but strong on our extreme western coasts.
Moderate from the E^wd. in the west of France, and light from the N^wd. or NE^wd. over the central and southern parts of that country.
Light from the W^wd. over Denmark, N. Germany and the south of Sweden, S^ly. in the Gulf of Bothnia.

WEATHER

Fair or fine over W^n. Europe as a whole, but foggy over central England and at Brussels, and dull in Ireland and the W. of Scotland.
Rain was falling at Christiansund, and snow at Haparanda.
Slight rain fell yesterday in the N. of Scotland and also at Jersey, but over our Islands generally the weather remained fine.

SEA

Slight or smooth generally, but rough at Stornoway, and rather rough at Christiansund.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone noticed over our Islands yesterday is moving E^wds., and depressions are now beginning to skirt our extreme W^n. coasts. Increasing S^ly. winds and unsettled weather are probable in Ireland and Scotland.

FORECASTS

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

DISTRICTS.	FORECASTS.
▼ 0 SCOTLAND NORTH	S^ly. and SW^ly. winds, increasing in force, dull, some rain.
▼ 1 SCOTLAND EAST	SW^ly. to S^ly. winds, freshening, fair generally.
2 ENGLAND N.E.	Same as No. 5.
3 ENGLAND EAST	
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	Varying S^ly. breezes, fair generally, but foggy or misty in places.
▼ 6 SCOTLAND WEST	S^ly. winds, increasing in force, dull, some rain.
7 ENGLAND N.W.	S^ly. winds, freshening, fair at first, some rain later.
8 ENGLAND S.W.	
▼ 9 IRELAND NORTH	Same as No. 6.
10 IRELAND SOUTH	
WARNINGS	At 10.30 am. today to districts 0, 6 and parts of 1 and 9 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 ...	30·29	37	33	SE	2	o	2
Sumburgh Head	30·21	44	42	WNW	2	c	4
Stornoway	30·28	44	43	SW	3	o	3
Aberdeen	30·35	42	40	W	2	bo	2
Shields	30·40	43	41	WSW	2	bcm	2
Ardrossan	30·37	47	47	SW	2	c	2
Malin Head ...	30·38	45	45	WSW	3	bc	2
Belmullet	30·39	46	43	SSW	3	o	*
Holyhead	30·45	48	46	WNW	1	o	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30·41	44	42	SSE	2	or	3
Scilly	30·43	49	45	ENE	1	o	2
Jersey	30·42	48	48	W	3	bc	3
Hurst Castle ...	30·43	47	44	NNE	1	bcm	1
Dungeness ...	30·41	43	41	ENE	3	bc	2
North Foreland	30·45	41	40	NNW	2	o	2
London (Westminster)	30·45	41	39	NNW	1	f	*
Yarmouth ...	30·42	41	39	NE	1	fo	1
Rochefort ...	30·41	46	43	NE	2	bc	*

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

Weather in morning fine in isolated places, but cloudy or dull over the United Kingdom as a whole, with showers at Malin H^d. Fine in the W^rn parts of the Continent generally, but dull in most of the E^rn, central and southern countries, with snow at Prague and also at Christiansund. Fog setting in later over the E^rn and central parts of England; a little rain falling in the N. of Scotland and also at Jersey.

Temperature risen in our Islands and also in Sweden, but fallen in all other countries. Morning readings highest 58° at La Calle, 57° at Palermo and Malta, and 54° at Oran; above 50° over the central and southern parts of the Mediterranean generally, and above 45° on the W. coasts of Gt. Britain. Lowest −16° F. at Ulleaborg, −11° at Archangel, and −8° at Haparanda; below the freezing point over N^rn, E^rn and central Europe generally. Rising during day to 45° and upwards in all but the E^rn and SE^rn parts of Gt. Britain, and also in the W. and S. of France, and reaching 61° at Lisbon. Sharp frost occurring at night in the E. and SE. of England.

Wind light from the W. or NW. over the greater part of the United Kingdom, but N^ly at some of our extreme northern stations, and E^ly or NE^ly over the west of France and the Spanish Peninsula, N^ly over Scandinavia, Denmark, northern Russia and the Baltic, with a gale at Wisby and Hernösand; W^ly or NW^ly over Germany, Austria and the S. of Russia. Light from the SW^rd or W^rd over Sicily and Malta, strong from the E^rd or NE^rd over northern Italy, fresh from the NW^rd in the extreme south of France. Subsequently backing to the S^rd in Ireland and the west of Scotland.

Barometer highest 30.5 ins. and upwards over the S^rn parts of Ireland, 30.2 ins. and upwards in an anticyclone embracing the whole of W^rn Europe. Lowest 29.2 ins. and less in a well marked depression over central Russia; 29.7 ins. and less in another disturbance over central and S^rn Italy. Anticyclone moving E^rd later, and barometer beginning to fall along our own extreme W^rn 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 „

SCANDINAVIA. BRITISH ISLANDS. GERMANY & HOLLAND. FRANCE & BELGIUM. PENINSULA.

DAILY WEATHER REPORT

for 8 a.m. on Friday 23rd December, 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 ...	29.87	18	Z	0	be	29.45	+.08	14	13	+11	Z	0	b	#	be	#	23	−22	0.04
	Hernösand ...	30.10	36	Z	0	b	30.15	+.20	26	26	+5	Z	0	0	#	b	#	37	14	—
	Stockholm ...	30.20	33	WNW	2	b	30.31	+.23	27	26	0	SSW	2	b	#	b	#	36	16	—
	Wisby	30.24	38	N	4	b	30.38	+.23	37	35	+3	NNW	4	b	#	b	#	34	27	—
	Karlstad ...	30.30	18	N	2	b	30.33	+.16	15	15	−5	N	2	f	#	b	#	#	#	—
	Bodö	29.88	41	W	4	be	29.84		42	41		WSW	6	c	3	be	#	42	39	0.25
	Christiansund ...	30.09	37	WSW	1	m	30.02	−.10	42	39	+1	WSW	4	c	5	m	#	43	36	0.04
	Skudesnaes ...	30.33	41	ESE	4	m	30.26	−.05	44	43	+8	SSE	4	o	3	m	#	45	34	#
	Færder (Christiania Fjord)	30.27	33	W	1	m	30.30	+.10	26	26	−6	NNW	1	f	1	m	#	34	25	—
	Skagen (The Scaw)	30.32	36	Z	0	c	30.36	+.14	42	42	+3	WNW	3	c	0	c	#	43	36	—
	Fanö	30.45	43	W	4	o	30.46	+.15	42	41	+1	W	2	o	#	o	#	45	41	0.04
British Islands.	Sumburgh Head	29.97	46	S	5	o	29.80	−.29	47	45	+3	S	6	o.	6	c.o	#	47	44	—
	Stornoway ...	29.88	48	SW	8	r	29.73	−.27	43	42	−2	WNW	3	r	3	o.r	0.0	49	37	0.55
	Wick	30.02	46	SW	4	c	29.87	−.26	48	44	+6	S	6	o	4	c	#	48	40	—
	Nairn	30.04	47	SW	2	c	29.88	−.28	49	45	+6	W	2	c	1	c	#	49	41	—
	Aberdeen ...	30.16	44	S	3	c	30.05	−.16	43	40	+5	S	6	ogq	4	bm. c	0.5	45	37	—
	Leith	30.20	45	W	3	be	30.09	−.19	43	40	−4	SW	6	c	#	be	#	48	40	—
	Shields	30.33	41	SSW	2	bm	30.24	−.12	36	34	−7	SSE	3	c	2	cm.bm	#	44	34	—
	Spurn Head ...	30.42	39	SSW	4	b	30.38	−.05	34	33	−8	S	4	b	3	b. bw	#	42	32	—
	York	30.38	38	SSE	2	bm	30.36	−.07	30	29	−11	S	1	b	#	f. bm	0.0	43	29	—
	Loughborough ...	30.46	35	SE	1	b	30.41	−.04	30	28	−9	ESE	2	be	#	cm. bc. b	#	42	29	—
	Ardrossan ...	30.18	49	SSE	5	rw	30.05	−.22	47	47	0	S	8	ow	6	ow. rw	#	49	46	—
	Malin Head ...	29.96	46	S	7	bc	29.85	−.24	47	46	+2	S	7	owg	4	c. be	#	47	44	—
	Belmullet ...	30.00	49	S	6	r	29.91	−.14	45	45	−3	W	3	r	#	oq. r	#	51	45	0.23
	Donaghadee ...	30.20	48	SSW	5	c	30.09	−.19	48	47	+3	SSW	6	c	4	c	#	48	44	0.01
	Liverpool (Bidston)	30.36	39	SSE	1	b	30.31	−.09	33	31	−8	SE	3	b	2	b	#	42	32	—
	Holyhead ...	30.31	46	S	6	be	30.22	−.13	45	41	−2	S	8	beq	6	c. be	#	47	41	—
	Parsonstown ...	30.17	45	S	1	o	30.07	−.17	47	44	+1	SE	2	c	#	o.r	0.0	49	45	0.04
	Valencia ...	30.09	50	SSE	5	ogp	29.99	−.16	51	48	+1	S	5	og	5	o. ogp	0.0	51	48	0.05
	Roche's Point ..	30.19	50	SSW	5	c	30.12	−.14	50	48	0	SSW	8	cp	5	c	#	51	48	0.05
	Pembroke (St. Anu's Hd.)	30.31	46	SSE	6	o	30.23	−.11	46	42	−1	SW	6	b	5	o	24	49	44	—
	Scilly	30.29	48	SSE	5	bc	30.23	−.08	48	45	−1	S	5	c	4	bc	3.8	50	43	—
	Prawle Point ...	30.42	42	SE	4	b	30.36	−.06	42	36	−2	SE	4	bc	3	c. b	#	45	35	—
	Jersey (St. Aubin's)	30.46	41	SE	4	b	30.40	−.10	38	34	−3	ESE	3	b	3	bm. b	#	42	36	—
	Hurst Castle ...	30.47	43	S	3	b	30.42	−.06	43	37	−1	S	3	b	2	be. b	#	46	42	—
	Dungeness ...	30.51	41	SSE	4	b	30.49	−.01	38	36	−5	SSE	4	b	3	b	#	46	37	—
	North Foreland	30.55	39	S	2	b	30.51	.00	36	32	−5	SSE	4	b	3	b	#	44	32	—
	London (Brixton) ...	30.50	37	SE	1	b	30.47	−.03	30	28	−2	SSE	1	b	#	f. be. b	1.0	45	29	—
	Oxford	30.49	35	SSE	1	b	30.45	−.05	31	29	0	SSE	2	b	#	b	#	41	30	—
	Cambridge ...	30.50	32	SSW	1	bm	30.46	−.04	29	28	0	S	1	b	#	bm	0.2	39	26	—
	Yarmouth ...	30.47	37	SW	1	b	30.48	.00	35	33	+1	SW	3	b	3	be. bm	#	39	31	—
Germany & Holland.	Cuxhaven ...	30.43	34	WSW	1	o	30.53	+.17	37	36	0	Z	0	b	#	o.r	#	41	34	0.12
	Berlin	30.44	35	W	3	o	30.52	+.08	36	35	+6	W	2	o	#	o	#	36	30	0.04
	Wiesbaden ...	#	#	#	#	#	30.63	+.07	24	24	−1	NE	1	o	#	#	#	32	23	—
	Munich	30.58	17	E	2	c	30.59	+.08	19	19	+1	E	2	o	#	c	#	23	16	—
	The Helder ...	30.50	43	WSW	1	c	30.53	+.07	29	28	−13	SSW	1	b	1	c	#	45	28	—
Belgium.	Brussels ...	#	#	#	#	#	30.57	+.03	28	25	+1	SE	3	b	#	b	#	37	23	—
	Cape Gris Nez..	?	34	SE	1	m	?	?	32	28	−5	S	3	b	3	m	#	41	27	—
	Paris	30.55	28	NE	2	b	30.52	−.02	20	20	−5	E	2	b	#	b	#	37	19	—
	Brest	30.47	40	ESE	3	b	30.32	−.06	36	35	−5	ESE	3	b	3	b	#	46	34	—
	Lorient... ...	30.39	36	E	4	b	30.24	−.09	32	30	−4	E	4	c	3	b	#	50	30	—
France &	Rochefort ...	30.33	34	E	4	b	30.31	−.09	28	27	−4	ESE	3	b	#	b	#	45	27	—
	Belfort	30.52	24	ENE	5	b	30.57	+.07	19	18	−3	ENE	3	b	#	b	#	30	19	—
	Lyons	30.45	29	NW	1	b	30.49	+.03	21	18	−5	NNW	1	b	#	b	#	32	20	—
	Nice	30.32	37	SSE	1	b	30.41	+.19	33	26	−1	E	1	b	3	b	#	43	32	—
	Perpignan ...	30.36	33	NE	1	b	30.43	+.12	27	26	−8	SW	2	o	#	b	#	45	26	—
	Biarritz ...	30.23	37	E	2	b	30.18	−.09	31	30	+1	SE	2	b	2	b	#	41	28	—
Peninsula.	Corunna ...																#			
	Lisbon	30.22	47	NNE	3	b	30.29	+.10	42	40	0	NE	3	b	#	b	#	52	41	—
	Azores (P. Delgada)	29.91	54	NW	3	c	29.76	−.17	59	56	+4	S	4	c	4	c	#	61	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 2.7 hrs;

WEATHER CHARTS

FOR Friday, 23rd December, 1898

BAROMETER, WIND AND SEA.

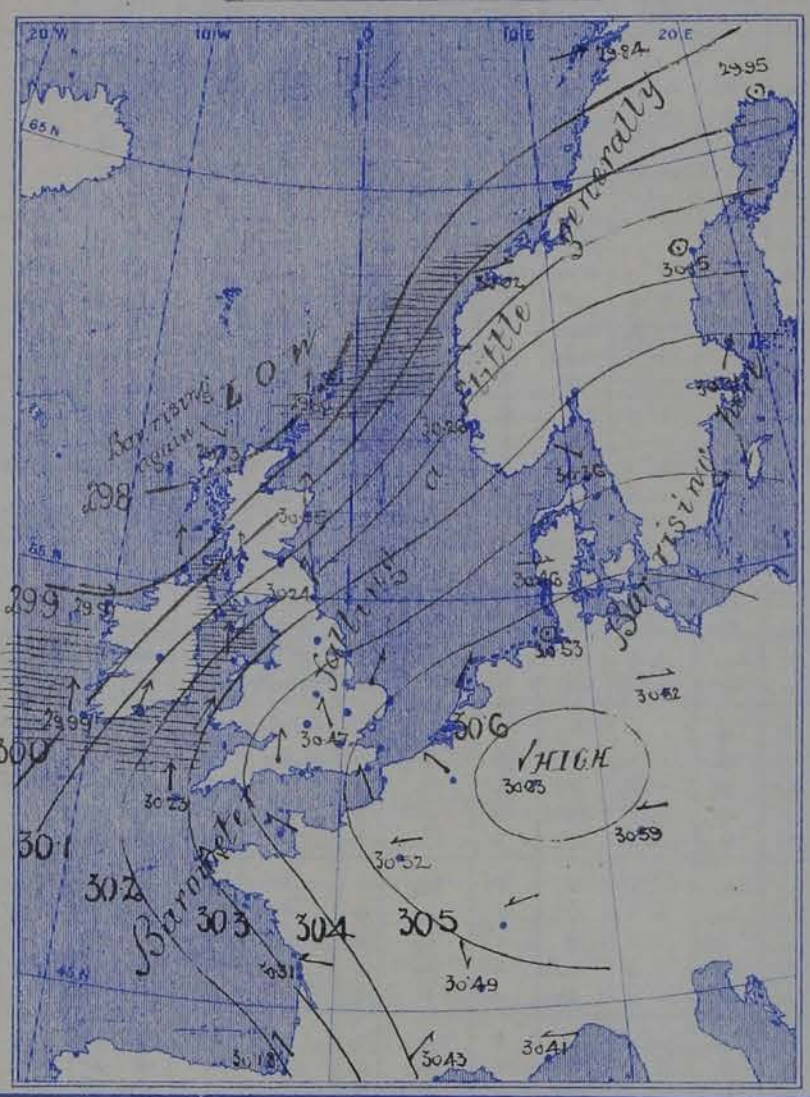
BAROMETER—Isobars are drawn for each tenth of an inch.

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* ▩

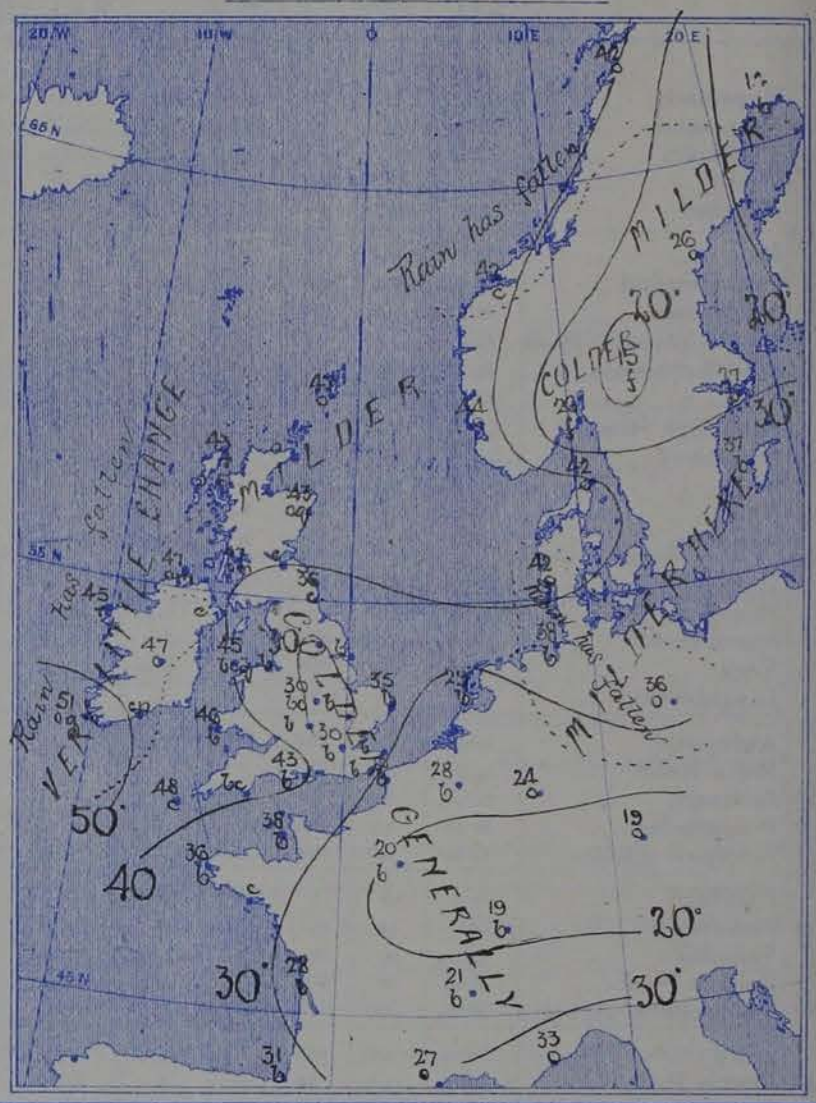


TEMPERATURE & WEATHER.

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 DECEMBER.

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 · 656	39 · 8	38 · 3	42 · 8	35 · 5	53	1890	19	1877	4 · 27	—	—
Stornoway	29 · 688	39 · 6	38 · 7	43 · 3	34 · 4	54	1880	15	1880	5 · 64	25 · 4	13
Wick	29 · 699	38 · 3	37 · 1	42 · 4	33 · 0	55	1889, 94	10	1882	3 · 17	—	—
Nairn	29 · 727	37 · 2	35 · 7	42 · 2	32 · 4	57	1888, 90, 91, 92, 94	10	1882	1 . 94	—	—
Aberdeen	29 · 758	37 · 0	35 · 3	42 · 0	32 · 8	58	1873	6	1882	3 · 11	39 · 9	20
Leith	29 · 797	38 · 7	37 · 2	44 · 1	33 · 7	58	1873, 88	6	1882	1 · 89	—	—
Shields	29 · 836	38 · 4	37 · 0	43 · 1	33 · 9	59	1873	10	1878, 79	2 · 32	—	—
Spurn Head	29 · 870	38 · 9	37 · 8	42 · 6	35 · 4	55*	1888	19*	1891	2 · 05	—	—
York	29 · 886	36 · 6	35 · 6	42 · 5	32 · 4	59	1888, 91	0	1879	2 · 21	26 · 5	12
Loughborough	29 · 922	36 · 4	35 · 4	43 · 0	32 · 3	59*	1888	7*	1890	2 · 24	—	—
Ardrossan	29 · 809	40 · 3	39 · 1	44 · 7	36 · 2	55	1880	15	1879	3 · 66	—	—
Malin Head	29 · 768	41 · 3	39 · 6	45 · 2	38 · 1	—	—	—	—	—	—	—
Belmullet	29 · 822	42 · 8	40 · 9	46 · 9	39 · 0	—	—	—	—	5 · 36	—	—
Donaghadee	29 · 840	40 · 4	39 · 5	45 · 8	36 · 3	56	1885, 88, 94	20	1879	2 · 85	—	—
Holyhead	29 · 876	42 · 8	41 · 2	46 · 5	39 · 2	56	1872, 88	25	1874	3 · 83	—	—
Liverpool	29 · 891	39 · 0	37 · 3	43 · 8	35 · 7	59	1891	13	1878	2 · 62	—	—
Parsonstown	29 · 891	38 · 3	37 · 0	45 · 1	33 · 5	58	1877	8	1878	3 · 09	45 · 0	20
Valencia	29 · 900	45 · 0	42 · 9	49 · 9	40 · 4	57	1884, 88	24	1886	5 · 93	43 · 9	19
Roche's Point	29 · 908	43 · 5	42 · 1	48 · 2	39 · 4	58	1873	25	1882	5 · 16	—	—
Pembroke	29 · 914	43 · 9	42 · 6	47 · 0	40 · 5	55	1876	19	1890	3 · 96	46 · 0	20
Scilly	29 · 950*	47 · 4	45 · 5	49 · 8	43 · 6	57	1876	30	1890	4 · 00	—	—
Prawle Point	29 · 976	42 · 8	41 · 4	47 · 3	38 · 5	55*	1881, 88	25*	1885, 87, 90	3 · 77	—	—
Jersey	29 · 993	43 · 5	41 · 7	47 · 7	39 · 7	61	1876	19	1871	3 · 76	62 · 6	25
Hurst Castle	29 · 962	40 · 9	40 · 1	45 · 9	36 · 7	58	1876	19	1890	2 · 77	—	—
Dover	29 · 954	40 · 0	38 · 9	44 · 7	35 · 9	56	1880	12	1890	2 · 79	—	—
LONDON	29 · 956	38 · 0	36 · 8	44 · 3	34 · 0	58	1873, 88, 91	11	1878	2 · 11	11 · 8†	5†
Oxford	29 · 956	37 · 1	36 · 0	43 · 2	33 · 6	58	1888	6	1878	2 · 10	41 · 8	18
Cambridge	29 · 941	36 · 4	35 · 6	43 · 2	31 · 6	59	1878, 88	0	1879	1 · 82	41 · 2	18
Yarmouth	29 · 915	38 · 1	37 · 1	42 · 2	33 · 8	56	1873	15	1879	2 · 53	—	—

* 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 30.63 ins. at Wiesbaden, 30.2 ins. and upwards in an anticyclone extending from central Europe over the whole of England, the North Sea, Denmark and the S. of Scandinavia.
Lowest 29.8 ins. and less in a depression lying off the N. of Scotland.
Gradients rather steep over the W. and N. of our Islands and the Nth. parts of the North Sea, slight elsewhere.
Barometer falling a little in most parts of our Islands and France, and also in the W. of Norway, but rising again at Stornoway.

TEMPERATURE

Highest 51° at Valencia (Ireland) 50° at Roche's Pt., 49° at Nairn, and 48° at Wick, Donaghadee and Scilly.
Lowest (1) 14° at Haparanda, and 15° at Karlstad; (2) 19° at Munich and Belfort, 20° at Paris, and 21° at Lyons; lowest in our Islands 29° at Cambridge.
Frost occurred last night over the greater part of England, the lowest temperatures reported being:- (1) In the screen 26° at Cambridge, and 29° at York, Loughborough and in London; (2) On the grass 24° at Oxford.

WIND

Strong from the Sth. wd. on most parts of our western and northern coasts, with a gale in places, but light from the Wn. at Stornoway and Belmullet.
Light to moderate from the SE. wd. over the greater part of England, and from the E. wd. in France.
Moderate from S. or SW. in the west of Norway; calm in the Gulf of Bothnia; variable in the south of Sweden; light from the Wt. wd. in Denmark and N. Germany. S. Germany

WEATHER

Fine over England, France and the Netherlands, as well as at the Swedish stations.
Cloudy in Ireland and Scotland, and also in Norway, Denmark and Germany; rain falling at Stornoway and Belmullet, and passing showers at Roche's Point.
A little rain fell yesterday in Ireland, and a considerable quantity (0.6 inch) at Stornoway.
Small amounts are reported also from Norway, Denmark and N. Germany.

SEA

Rough or rather so on many parts of our Wn. and eastern Nth. coasts, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression noticed yesterday off our Wn. coasts has travelled northwards. The barometer is, however, still falling at Valencia, with a Sly. wind, so that further disturbances are likely to appear in the west shortly.

FORECASTS

For the 24 hours ending at NOON on 24TH DECEMBER 1898

DISTRICTS.		FORECASTS.	DISTRICTS.		FORECASTS.
▼ 0	SCOTLAND NORTH	SW. winds moderate to Sly. strong; cloudy, unsettled, some rain.	▼ 6	SCOTLAND WEST	Sly. winds, strong, a gale in places; fair at first, some rain later.
▼ 1	SCOTLAND EAST		7	ENGLAND N.W.	
2	ENGLAND N.E.	Sly. winds moderate or fresh; fair generally.	8	ENGLAND S.W.	Sly. winds, fresh or strong; fair generally.
3	ENGLAND EAST	Sly. and SE. winds, moderate; fine generally.	▼ 9	IRELAND NORTH	Sly. winds, strong; cloudy, unsettled, some rain.
4	MIDLAND COUNTIES		10	IRELAND SOUTH	
5	ENGLAND SOUTH			WARNINGS	The South Cone is still flying in districts 0, 6 and parts of 1 and 9.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·33	39	39	SE	2	m	2
Sumburgh Head	30·03	44	42	WSW	2	c	4
Stornoway	29·90	49	47	SW	8	o	8
Aberdeen	30·17	44	41	SSW	2	bcm	1
Shields	30·34	44	42	SSW	2	cm	2
Ardrossan	30·21	49	49	S	5	om	4
Malin Head ...	30·03	47	46	S	6	c	4
Belmullet	30·01	50	46	SSW	8	oq	*
Holyhead	30·30	47	44	S	4	c	3

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30·10	50	48	SSE	5	o	5
Scilly	30·30	49	45	SE	5	c	3
Jersey	30·47	40	37	SSE	4	b	3
Hurst Castle ...	30·47	45	41	S	4	bc	2
Dungeness ...	30·50	45	41	S	3	b	2
North Foreland	30·53	43	39	S	2	b	2
London (Westminster)	30·49	46	41	S	3	bc	*
Yarmouth ...	30·46	38	37	SW	2	bc	3
Rochefort ...	30·35	40	37	E	4	b	*

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

Continental information not yet received.

Christmas 1898

Notice The Daily Weather Report for Sunday Dec. 25th will be issued as usual on Tuesday next. The report for Monday Dec. 26th will be issued with that for Wednesday Dec. 28th.

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 Saturday, 24th December, 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	19	NE	0	c	29.65	-.80	28	28	+ 14	WSW	2	0	8	c	*	?	5	-
	Hernösand ...	30.01	14	NE	0	bc	29.82	-.33	25	24	- 1	NE	0	0	*	bc	*	36	14	-
	Stockholm ...	30.29	37	NE	0	0	30.17	-.14	35	33	+ 8	SW	4	b	*	0	*	37	25	-
	Wisby	30.41	40	WNW	4	0	30.36	-.02	37	35	0	WNW	6	b	*	0	*	39	32	-
	Karlstad ...	30.26	27	SSW	4	0	30.15	-.18	39	37	+ 24	SSW	4	0	*	0	*	*	*	-
	Bodö	29.49	42	SW	6	0	29.36	-.48	43	40	+ 1	SW	6	0	8	0	*	43	41	0.32
	Christiansund ...	29.79	45	WSW	4	bc	29.63	-.39	46	42	+ 4	WSW	7	0	5	bc	*	46	41	-
	Skudesnaes ...	30.17	44	S	8	0	30.05	-.21	45	44	+ 1	SSW	8	r	5	0	*	45	41	*
	Færder (Christiania Fjord)	30.26	41	SW	6	0	30.13	-.17	43	41	+ 17	W	6	c	4	0	*	43	25	-
	Skagen (The Scaw)	30.38	37	WSW	4	bc	30.26	-.10	37	37	- 5	WSW	4	c	1	bc	*	43	37	-
	Fanö	30.51	40	WSW	4	b	30.41	-.05	41	38	- 1	SSW	- 4	c	*	b	*	45	39	-
British Isl.	Sumburgh Head	29.71	43	WSW	4	r	29.76	-.04	46	43	- 1	W	4	0	6	0.r	*	47	42	0.17
	Stornoway ...	29.70	45	WSW	4	0	29.87	+.14	44	43	+ 1	SW	3	bc	3	0r.0	0.0	45	37	0.35
	Wick	29.83	45	S	3	bc	29.92	+.05	43	42	- 5	W	2	bc	1	bc	*	49	41	0.03
	Nairn	29.80	46	WSW	2	c	29.93	+.05	44	41	- 5	W	1	bc	1	c	*	50	42	0.01
	Aberdeen ...	29.96	44	SW	3	0q	29.99	-.06	45	43	+ 2	SW	2	c	3	0qq	0.0	45	42	-
	Leith	29.99	44	SW	3	0	29.99	-.10	49	46	+ 6	SSW	2	0	*	c	*	49	40	-
	Shields	30.18	37	S	3	cm	30.13	-.11	37	36	+ 1	S	3	0	2	cm	*	40	33	-
	Spurn Head ...	30.29	38	S	5	bc	30.27	-.11	36	35	+ 2	S	4	c	4	bc	*	38	33	-
	York	30.29	34	S	2	b	30.25	-.11	35	34	+ 5	S	1	c	*	bc	0.0	38	30	-
	Loughborough ...	30.33	35	SE	2	c	30.31	-.10	37	35	+ 7	SSE	2	0	*	bc.c.b.0	*	40	30	-
	Ardrossan ...	29.99	49	S	8	0m	30.01	-.04	48	48	+ 1	SSW	4	0	5	0m	*	50	47	0.12
	Malin Head ...	29.87	46	S	6	r	30.03	+.18	45	44	- 2	SW	3	cqm	2	0.r	*	48	44	0.22
	Belmullet ...	29.93	46	S	1	0m	30.05	+.14	42	41	- 3	WSW	1	0	*	r.0m	*	51	38	0.96
	Donaghadee ...	30.02	48	SSW	6	c	30.05	-.01	50	50	+ 2	SSW	6	0	4	c	*	50	46	0.17
	Liverpool (Bidston)	30.26	36	SE	3	b	30.22	-.09	37	36	+ 4	SE	3	bc	?	bm	*	38	32	-
	Holyhead ...	30.15	46	S	8	0q.11	30.16	-.06	49	47	+ 4	S	6	0m	5	cq.0q	*	49	41	-
	Parsonstown ...	30.02	49	SE	1	0	30.09	+.02	51	50	+ 4	Calm	0	0	*	c.0r	1.4	51	45	0.03
	Valencia ...	29.96	52	S	5	qr	30.07	+.08	52	50	+ 1	S	5	0m	5	0q.rq	0.0	53	49	0.46
	Roche's Point ...	30.08	52	SSW	7	0	30.14	+.02	52	50	+ 2	SW	5	bcp	4	c.0	*	52	49	0.01
	Pembroke (St. Ann's Hd.)	30.20	47	SW	6	bc	30.22	-.01	52	49	+ 6	SSW	5	0q	5	bc	3.1	53	43	-
	Scilly	30.18	49	S	4	0	30.21	-.02	52	48	+ 4	SSW	4	c	4	c.0	0.5	52	45	-
	Prawle Point ...	30.29	41	S	2	c	30.33	-.03	48	45	+ 6	S	3	c	2	c	*	48	37	-
	Jersey (St. Aubin's)	30.38	40	SE	3	b	30.40	.00	38	37	0	NW	1	bw	1	bm	*	41	37	-
	Hurst Castle ...	30.36	43	SSE	3	b	30.40	-.02	46	44	+ 3	SSW	2	0m	2	bc.b	*	47	47	-
	Dungeness ...	30.43	40	SSE	4	b	30.39	-.10	40	38	+ 2	SW	3	b	2	b	*	43	37	-
	North Foreland	30.45	39	SSE	4	b	30.41	-.10	38	37	+ 2	S	2	0	1	b	*	40	34	-
	London (Brixton) ...	30.39	37	S	2	b	30.39	-.08	34	32	+ 4	SSE	1	b	*	b	3.4	44	29	-
	Oxford	30.36	36	SE	3	b	30.36	-.09	37	35	+ 6	SSE	2	0	*	b.0	*	42	30	-
	Cambridge ...	30.38	34	S	2	b	30.34	-.09	32	32	+ 3	S	1	0	*	b	4.8	40	27	-
	Yarmouth ...	30.41	39	S	3	b	30.37	-.11	35	33	0	SSW	3	b	3	b	*	40	31	-
Germany & Holland.	Cuxhaven ...	30.58	32	SSW	1	b	30.50	-.03	29	28	- 8	S	2	b	*	b	*	37	27	-
	Berlin	30.63	36	W	2	0	30.63	+.11	35	34	- 1	SW	3	0	*	0	*	37	34	-
	Wiesbaden ...	*	*	*	*	*	30.60	-.03	26	25	+ 2	NE	1	0	*	*	*	30	23	-
	Munich	30.60	22	E	2	bc	30.60	+.01	18	18	- 1	E	2	f	*	bc	*	30	10	-
	The Helder ...	30.51	29	S	1	b	30.45	-.08	27	26	- 2	S	1	b	0	b	*	37	27	-
Belgium.	Brussels ...	*	*	*	*	*	30.52	-.05	28	27	0	SSE	2	b	*	b	*	41	26	-
	Cape Gris Nez ...	* ?	?	ENE	2	bc	?	?	28	28	- 4	SSE	3	c	2	bc	*	37	27	-
	Paris	30.50	28	ESE	2	b	30.49	-.03	20	20	0	SE	2	b	*	b	*	39	19	-
	Brest	30.25	42	ESE	3	0	30.31	-.01	46	45	+ 10	ESE	3	0	3	0	*	46	32	-
	Lorient	30.34	43	SSE	4	0	30.36	+.02	38	36	+ 6	E	4	0	3	0	*	43	30	-
France &	Rochefort ...	30.33	38	E	2	b	30.38	+.07	36	34	+ 8	SE	3	b	*	b	*	41	27	-
	Belfort	30.56	25	NE	4	m	30.58	+.01	21	20	+ 2	ENE	3	f	*	m	*	30	19	-
	Lyons	30.56	?	S	1	?	30.60	+.11	22	22	+ 1	S	1	b	*	?	*	32	19	-
	Nice	30.45	39	ENE	2	b	30.51	+.10	37	35	+ 4	NE	4	b	2	b	*	48	33	-
	Perpignan ...	30.44	38	SW	2	b	30.50	+.07	30	29	+ 3	SW	2	b	*	b	*	51	27	-
	Biarritz ...	30.28	50	S	4	b	30.32	+.14	47	41	+ 16	S	4	b	2	b	*	55	31	-
Penin-sula.	Corunna ...																*			
	Lisbon	30.26	53	SE	3	b	30.32	+.03	52	47	+ 10	SE	4	c	*	0	*	57	42	-
	Azores (P. Delgada)	29.51	59	WSW	4	c	29.60	-.16	56	51	- 3	WNW	4	c	5	c	*	64	55	0.55

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. 2.2. hrs.

WEATHER CHARTS

FOR Saturday, 24th December, 1898

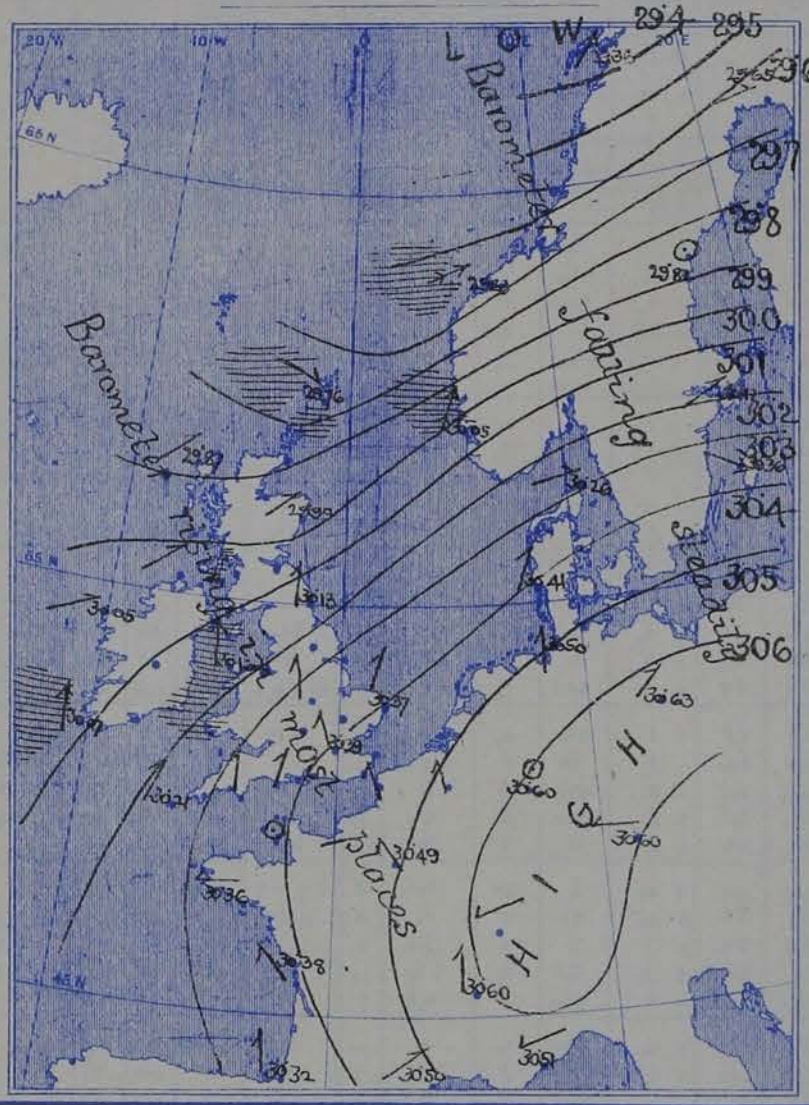
BAROMETER, WIND AND SEA.

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 ⊙

SEA—Rough ▒ ; *High* ▓

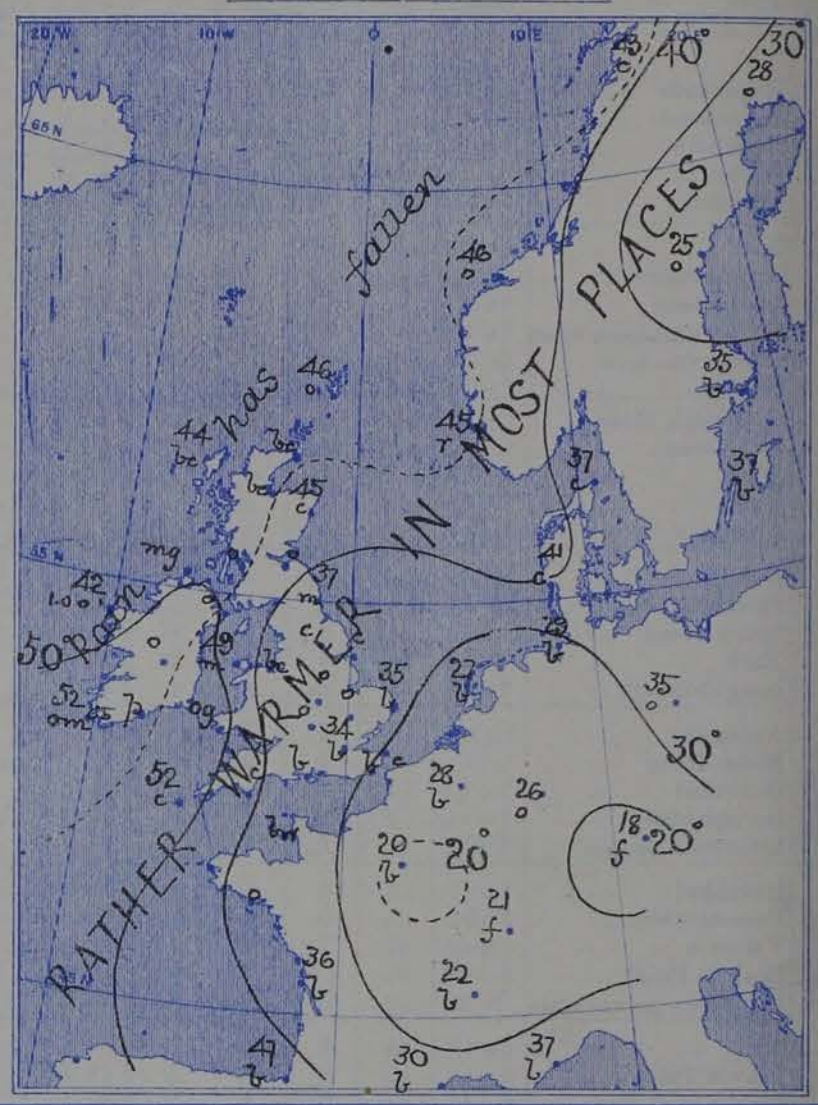


TEMPERATURE & WEATHER.

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 DECEMBER.*

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 · 656	39 · 8	38 · 3	42 · 8	35 · 5	53	1890	19	1877	4 · 27	—	—
Stornoway	29 · 688	39 · 6	38 · 7	43 · 3	34 · 4	54	1880	15	1880	5 · 64	25 · 4	13
Wick	29 · 699	38 · 3	37 · 1	42 · 4	33 · 0	55	1889, 94	10	1882	3 · 17	—	—
Nairn	29 · 727	37 · 2	35 · 7	42 · 2	32 · 4	57	1888, 90, 91, 92, 94	10	1882	1 . 94	—	—
Aberdeen	29 · 758	37 · 0	35 · 3	42 · 0	32 · 8	58	1873	6	1882	3 · 11	39 · 9	20
Leith	29 · 797	38 · 7	37 · 2	44 · 1	33 · 7	58	1873, 88	6	1882	1 · 89	—	—
Shields	29 · 836	38 · 4	37 · 0	43 · 1	33 · 9	59	1873	10	1878, 79	2 · 32	—	—
Spurn Head	29 · 870	38 · 9	37 · 8	42 · 6	35 · 4	55*	1888	19*	1891	2 · 05	—	—
York	29 · 886	36 · 6	35 · 6	42 · 5	32 · 4	59	1888, 91	0	1879	2 · 21	26 · 5	12
Loughborough	29 · 922	36 · 4	35 · 4	43 · 0	32 · 3	59*	1888	7*	1890	2 · 24	—	—
Ardrossan	29 · 809	40 · 3	39 · 1	44 · 7	36 · 2	55	1880	15	1879	3 · 66	—	—
Malin Head	29 · 768	41 · 3	39 · 6	45 · 2	38 · 1	—	—	—	—	—	—	—
Belmullet	29 · 822	42 · 8	40 · 9	46 · 9	39 · 0	—	—	—	—	5 · 36	—	—
Donaghadee	29 · 840	40 · 4	39 · 5	45 · 8	36 · 3	56	1885, 88, 94	20	1879	2 · 85	—	—
Holyhead	29 · 876	42 · 8	41 · 2	46 · 5	39 · 2	56	1872, 88	25	1874	3 · 83	—	—
Liverpool	29 · 891	39 · 0	37 · 3	43 · 8	35 · 7	59	1891	13	1878	2 · 62	—	—
Parsonstown	29 · 891	38 · 3	37 · 0	45 · 1	33 · 5	58	1877	8	1878	3 · 09	45 · 0	20
Valencia	29 · 900	45 · 0	42 · 9	49 · 9	40 · 4	57	1884, 88	24	1886	5 · 93	43 · 9	19
Roche's Point	29 · 908	43 · 5	42 · 1	48 · 2	39 · 4	58	1873	25	1882	5 · 16	—	—
Pembroke	29 · 914	43 · 9	42 · 6	47 · 0	40 · 5	55	1876	19	1890	3 · 96	46 · 0	20
Scilly	29 · 950	47 · 4	45 · 5	49 · 8	43 · 6	57	1876	30	1890	4 · 00	—	—
Prawle Point	29 · 976	42 · 8	41 · 4	47 · 3	38 · 5	55*	1881, 88	25*	1885, 87, 90	3 · 77	—	—
Jersey	29 · 993	43 · 5	41 · 7	47 · 7	39 · 7	61	1876	19	1871	3 · 76	62 · 6	25
Hurst Castle	29 · 962	40 · 9	40 · 1	45 · 9	36 · 7	58	1876	19	1890	2 · 77	—	—
Dover	29 · 954	40 · 0	38 · 9	44 · 7	35 · 9	56	1880	12	1890	2 · 79	—	—
LONDON	29 · 956	38 · 0	36 · 8	44 · 3	34 · 0	58	1873, 88, 91	11	1878	2 · 11	11 · 8†	5†
Oxford	29 · 956	37 · 1	36 · 0	43 · 2	33 · 6	58	1888	6	1878	2 · 10	41 · 8	18
Cambridge	29 · 941	36 · 4	35 · 6	43 · 2	31 · 6	59	1878, 88	0	1879	1 · 82	41 · 2	18
Yarmouth	29 · 915	38 · 1	37 · 1	42 · 2	33 · 8	56	1873	15	1879	2 · 53	—	—

* 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 in Germany and the east of France; 30·1 in: and upwards in an anticyclone extending from Central Europe over the North Sea, England, and the southeast of Ireland.
Lowest, 29·4 in: and less, in a depression with its centre off the northern part of the Norwegian coasts.
Gradients rather steep over Scandinavia and the North Sea, but moderate or slight elsewhere.
Barometer rising in most part of our Islands and France, but falling in Scandinavia and Denmark.

TEMPERATURE

Highest, (1) 52° at Lisbon; (2) 52° at Valencia (Ireland) Rockets, Pembroke and Scilly, 51° at Queenstown, and 49° at Leith and Holyhead
Lowest, (1) 18° at Munich, 20° at Paris ~~and~~ 21° at Belfast, and 22° at Lyons; (2) 25° at Haparanda; lowest in our Islands 32° at Cambridge and 34° at London.
Frost occurred last night over the greater part of England, the lowest temperatures reported being 27° at Cambridge and 29° in London.

WIND

S^ly or SW^ly in our Islands, light or moderate in force generally, but strong in the Irish Sea
SW^ly or W^ly in Scandinavia and Denmark, and strong in force in many places, with a gale at Skudenaes.
Light from the S^ern or SE^ern over the greater part of France.

WEATHER

Fine over France, the Netherlands, and the south and east of England, as well as in the north of Scotland.
Cloudy or dull elsewhere, with rain at Skudenaes and passing showers at Rockall Port.
Rain fell yesterday in Ireland and the west and north of Scotland, the largest amounts being 1·0 in: at Belmullet, and 0·5 in: at Valencia.

SEA

Rough at Fair Isle and rather rough off the west of Norway, as well as on several parts of our own western coasts, moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depressions in the west have all travelled away to the northeastward, and the barometer is at present rising in nearly all parts of the Kingdom. On our western coasts, however, the wind shows no tendency to veer, the general conditions being still rather unsettled.

FORECASTS

For the 24 hours ending at NOON on 25th Dec^r 1898

DISTRICTS.		FORECASTS.	DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	W^ly to SW^ly winds, moderate or fresh; fair at first, doubtful later, probably some rain.	6	SCOTLAND WEST	S^ly and SW^ly winds, fresh or strong; cloudy, some rain.
1	SCOTLAND EAST		↑ 7	ENGLAND N.W.	S^ly winds, moderate or fresh; cloudy, rain locally.
2	ENGLAND N.E.	Same as No 5.	8	ENGLAND S.W.	
3	ENGLAND EAST		↑ 9	IRELAND NORTH	Same as Nos 6 and 7.
4	MIDLAND COUNTIES		↑ 10	IRELAND SOUTH	
5	ENGLAND SOUTH	S^ly and SW^ly winds, moderate; cloudy, milder.		WARNINGS	At 7·0 pm yesterday to districts 7. 10 and part of 9 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 ...	30·29	44	41	S	6	o	3
Sumburgh Head	29·73	46	44	SW	6	o	6
Stornoway	29·72	43	42	WSW	3	r	3
Aberdeen	29·96	43	41	S	6	ogq	5
Shields	30·22	37	34	S	3	cm	2
Ardrossan	29·99	49	44	S	7	cm	6
Malin Head ...	29·82	47	47	S	7	o	4
Belmullet	29·90	46	45	WSW	2	r	6*
Holyhead	30·17	46	42	S	8	cq	

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29·97	52	49	S	5	oq	6
Scilly	30·20	49	45	S	5	c	4
Jersey	30·37	40	37	ESE	3	c	3
Hurst Castle ...	30·37	45	41	SE	4	bc	4
Dungeness ...	30·47	41	39	SSE	2	c	1
North Foreland	30·47	40	35	SSE	3	c	2
London (Westminster)	30·41	44	37	SSE	3	c	
Yarmouth ...	30·43	40	36	S	3	c	3*
Rochefort ...	30·32	41	39	ESE	3	c	*

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

Weather in morning fine over England and a considerable portion of the Continent, but dull over Norway, Denmark, Ireland Germany and Austria, with snow at St. Petersburg and Vienna. Dull in Ireland and Scotland, with rain at Stornoway and Belmullet. Rain falling later over the whole of Ireland and the west and north of Scotland — heavily at Belmullet.

Temperature fallen over England and France, as well as over Central Russia, but risen elsewhere. Morning readings highest (1) 51° at Kilkenny (Ireland) 50° at Rochefort and 49° at Nantes; (2) 50° at Palermo and 48° at Malta and Algiers. Lowest −11° F. at Moscow, −9° at Archangel and −1° at Charkow; considerably below the freezing point over the whole of Sweden and Russia, as well as over Western Germany and Central France, and slightly below it over the inland parts of England. Not exceeding 40° all day in the north and east of England, but reaching 50° or more on several parts of our western coasts. Touching 55° at Biarritz and 57° at Lisbon.

Wind light to moderate from the E. over France, and from the SE. over England, but strong from the S. on nearly all parts of our western and northern coasts; SW. in the west of Norway. Light from the W. or NW. over Denmark, Germany and Austria; Variable in Russia, light to fresh from the N. or NE. over the greater part of southern Europe. No important change occurring during day.

Barometer highest 30 6 in: and upwards over Western Germany, 30·2 in: and upwards in an anticyclone embracing the greater part of the Continent and extending over the whole of England. Lowest 29·8 in: and less, in a depression lying off the north of Scotland; 29·9 in: and less, in a large area lying to the southward of Greece. Scotch depression subsequently moving northeastwards and barometer rising a little on our more extreme northwest coasts.

CHRISTMAS HOLIDAYS

NOTICE. The Daily Weather Report for Sunday Dec^{r} 25th will be issued as usual on Tuesday next. The report for Monday Dec^{r} 26th will be issued with that for Wednesday Dec^{r} 28th

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 25th December, 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 32.)		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	30	W	4	b	29.39	−.26	28	27	0	W	4	bc	*	b	*	?	?	—
	Hernösand ...	29.75	36	?	0	bc	29.75	−.07	?	?	0	?	0	b	*	bc	*	37	12	—
	Stockholm ...	30.00	39	SW	4	0	29.95	−.22	39	35	+ 4	WSW	2	c	*	0	*	39	23	—
	Wisby	30.21	37	SW	6	b	30.11	−.25	46	38	+ 9	W	6	0	*	b	*	?	32	—
	Karlstad ...	30.01	41	SSW	4	0	29.94	−.21	39	38	0	SW	4	0	*	0	*	*	*	—
	Bodö	29.23	39	SW	7	r	29.33	−.03	36	?	− 8	W	7	0	?	r	*	?	?	?
	Christiansund ...	29.73	42	WSW	9	r	29.74	+.11	42	38	− 4	WSW	8	0	5	r	*	46	37	0.51
	Skudesnaes ...	30.09	44	WSW	2	bc	30.05	.00	44	44	− 1	WSW	2	m	4	r, bc	*	46	43	*
	Færder (Christiania Fjord)	30.12	44	WSW	6	m	29.98	−.15	42	40	− 1	WSW	5	0	4	m	*	44	42	—
	Skagen (The Scaw)	30.16	40	W	3	r	30.10	−.16	44	44	+ 7	WSW	2	m	0	r	*	45	37	—
	Fanö	30.34	43	SW	4	0	30.26	−.15	44	44	+ 3	SW	4	r	*	0	*	45	41	0.04
British Islands.	Sumburgh Head	29.92	45	W	4	c	29.81	+.05	44	43	− 2	WSW	1	r	4	bc, c	*	47	41	0.07
	Stornoway ...	30.01	44	WSW	2	c	29.69	−.18	49	48	+ 5	SW	5	r	5	pd, o, c	1.7	49	40	1.40
	Wick ...	30.03	44	NW	2	bc	29.77	−.15	47	46	+ 4	S	3	o	2	bc	*	48	39	0.12
	Nairn	30.09	42	WSW	1	bc	29.82	−.11	49	45	+ 5	W	1	c	1	bc	*	50	38	—
	Aberdeen ...	30.13	36	W	1	bc	29.94	−.05	46	44	+ 1	SW	4	ogq	3	bc, m, r	0.5	47	35	0.03
	Leith	30.15	46	S	1	0	29.98	−.01	51	48	+ 2	SSW	1	c	*	0	*	52	43	0.02
	Shields	30.19	49	SSW	2	cm	30.10	−.03	44	42	+ 7	SSW	3	c	2	r, 0	*	50	36	0.01
	Spurn Head ...	30.29	41	SSW	3	c	30.25	−.02	41	40	+ 5	S	4	c	4	c	*	42	35	—
	York	30.27	40	S	1	b	30.23	−.02	40	38	+ 5	S	2	cm	*	b	?	43	34	—
	Loughborough ..	30.34	41	SSW	3	bc	30.32	+.01	40	38	+ 3	S	2	bc	*	c, bc, c, 0	*	45	37	—
	Ardrossan ...	30.15	48	S	2	p	29.96	−.05	48	48	0	S	6	rm	5	c, p	*	49	47	0.04
	Malin Head ...	30.10	44	S	2	rm	29.84	−.19	50	50	+ 5	S	5	og	2	o, rm	*	50	43	0.06
	Belmullet ...	30.07	50	SSW	3	cm	29.89	−.16	52	52	+ 10	SSW	1	0	*	rm	*	52	42	0.10
	Donaghadee ...	30.16	48	SW	3	c	30.01	−.04	50	50	0	SW	6	c	4	c	*	50	47	0.05
	Liverpool (Bidston)	30.30	45	S	2	c	30.22	.00	43	41	+ 6	SSE	3	0	3	c	*	50	37	—
	Holyhead ...	30.25	51	SW	3	c	30.16	.00	49	49	0	S	6	r	4	c	*	52	47	0.03
	Parsonstown ...	30.18	50	SE	1	c	30.04	−.05	53	52	+ 2	SW	1	0	*	c	0.0	53	46	0.01
	Valencia ...	30.11	51	SSE	4	c	30.03	−.04	54	53	+ 2	S	5	ofq	5	cm, c	0.0	54	51	0.12
	Roche's Point ..	30.22	52	SW	5	c	30.13	−.01	53	53	+ 1	SSW	6	p	5	c	*	54	50	0.03
	Pembroke (St. Ann's Hd.)	30.31	52	SSW	4	0	30.22	.00	52	51	0	SW	6	og	5	0	0.0	52	51	0.05
	Scilly	30.27	53	SSE	5	c	30.27	+.06	52	50	0	S	5	0	4	c	0.0	54	47	—
	Prawle Point ...	30.40	48	S	2	0	30.39	+.06	49	47	+ 1	S	3	c	2	c, 0	*	49	43	—
	Jersey (St. Aubin's)	30.42	44	ESE	2	cm	30.44	+.04	44	43	+ 6	SE	2	bc	2	c, cm	*	46	36	—
	Hurst Castle ...	30.41	47	SW	2	0	30.34	+.02	49	47	+ 3	SW	3	c	2	0	*	49	46	—
	Dungeness ...	30.41	39	W	2	c	30.41	+.02	48	46	+ 8	SSW	4	0	3	c	*	48	37	—
	North Foreland	30.54	40	SSW	2	c	30.44	+.03	44	43	+ 6	SW	2	0	2	c	*	44	37	—
	London (Brixton) ...	30.43	41	SSW	1	og	30.34	.00	43	40	+ 9	S	1	c	*	b, m, 0	0.0	43	34	—
	Oxford	30.42	43	SSE	2	0	30.38	+.02	42	39	+ 6	S	1	bc	*	0	*	43	34	—
	Cambridge ...	30.40	38	S	1	0	30.39	+.02	40	38	+ 8	S	1	0	*	0	0.0	40	31	—
	Yarmouth ...	30.36	38	SSW	3	bc	30.38	+.01	40	39	+ 5	WSW	2	c	3	bc	*	40	34	—
Germany & Holland.	Cuxhaven ...	30.43	34	SSW	2	b	30.36	−.14	34	32	+ 5	SW	3	0	*	b	*	36	27	—
	Berlin	30.56	31	SSE	2	b	30.47	−.14	27	26	− 8	SW	2	c	*		*	36	24	—
	Wiesbaden ...	*	*	*	*	*									*	*	*			
	Munich	?	?	?	?	?	30.58	−.02	13	13	− 5	E	2	f	*	?	*	23	10	—
	The Helder ...	30.40	32	S	1	bc	30.37	−.08	46	42	+ 19	WSW	2	0	1	bc	*	46	27	—
Belgium.	Brussels ...	*	*	*	*	*	30.53	+.01	30	28	+ 2	SSE	1	c	*	b	*	37	27	—
	Cape Gris Nez ...	?	36	S	1	0	?	?	41	38	+ 13	SSW	3	m	2	0	*	41	28	—
	Paris	30.54	30	S	2	b	30.54	+.05	20	20	0	SSE	2	b	*	b	*	37	19	—
	Brest	30.37	46	ESE	1	b	30.38	+.07	46	41	0	ESE	2	b	2	b	*	48	41	—
	Lorient	30.41	46	E	3	c	30.41	+.05	45	45	+ 7	SE	4	c	5	c	*	48	38	—
France &	Rochefort ...	30.40	41	ESE	3	b	30.43	+.05	34	32	− 2	ESE	2	b	*	b	*	46	30	—
	Belfort	30.60	24	ENE	3	m	30.65	+.07	16	15	− 5	Z	0	m	*	m	*	33	16	—
	Lyons ...	30.60	30	WNW	1	b	30.[illegible]	+.12	21	21	− 1	W	1	b	*	b	*	35	21	—
	Nice	30.53	40	E	1	b	30.55	+.04	31	28	− 6	E	3	b	2	b	*	48	34	—
	Perpignan ...	30.52	37	W	1	b	30.50	.00	32	31	+ 2	SW	1	b	*	b	*	49	30	—
	Biarritz ...	30.34	50	E	2	b	30.35	+.03	45	39	− 2	SE	3	b	2	b	*	57	37	—
Peninsula.	Corunna ...																*			
	Lisbon	30.30	53	ESE	4	b	30.34	+.02	44	41	− 8	ENE	4	c	*	b	*	59	43	—
	Azores (P. Delgada)	29.85	55	WNW	3	c	29.60	.00	67	53	+ 1	NNW	5	bc	6	c	*	61	50	0.43

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 0.1 hrs;

WEATHER CHARTS

FOR Sunday, 25th December, 1898

BAROMETER, WIND AND SEA.

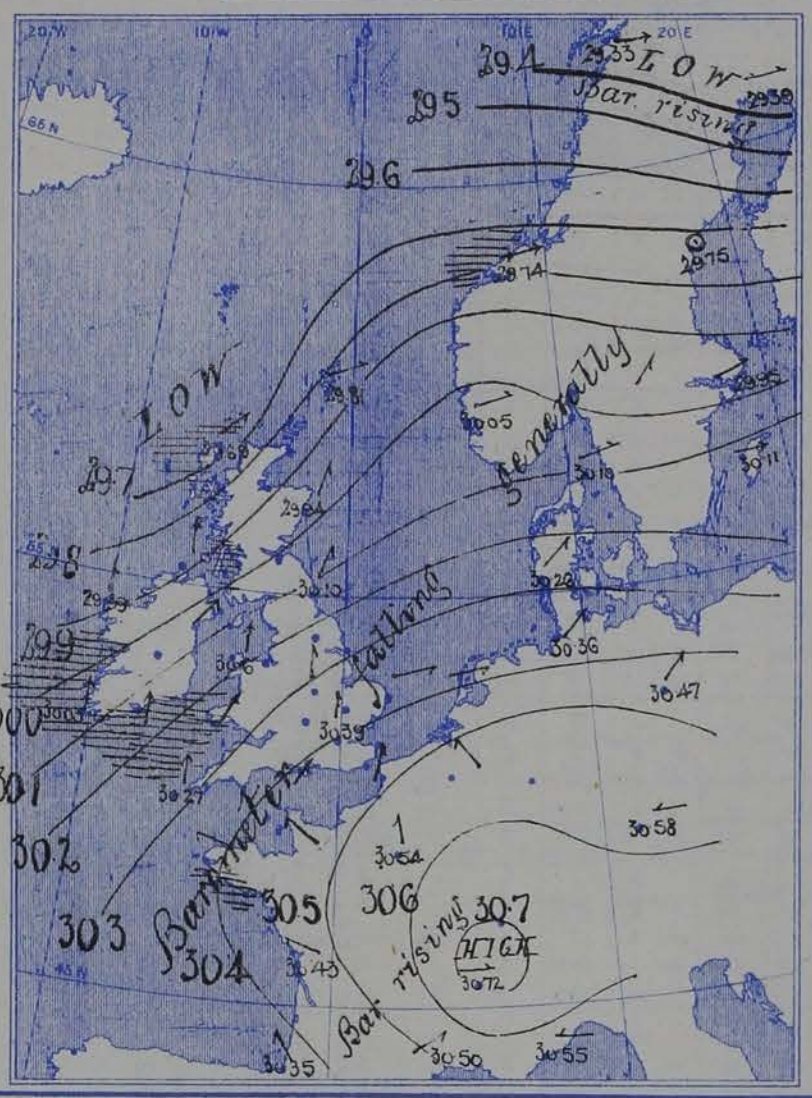
BAROMETER—Isobars are drawn for each tenth of an inch.

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*

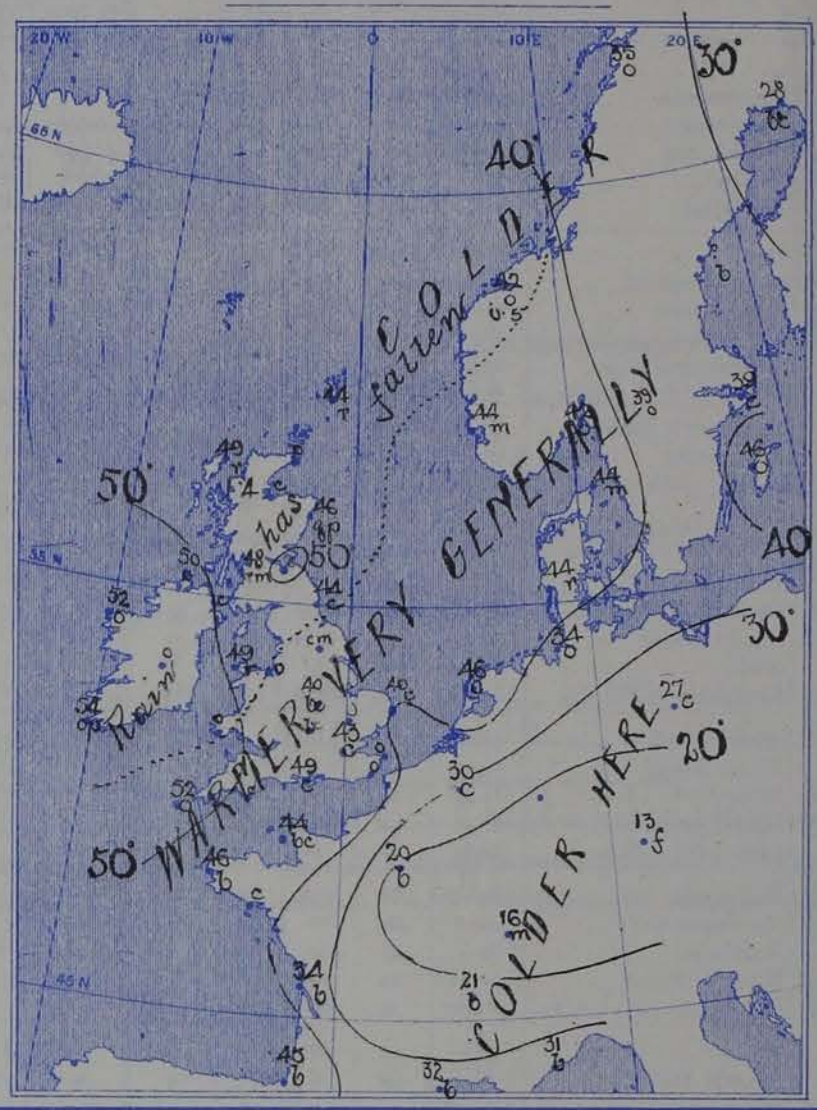


TEMPERATURE & WEATHER.

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 DECEMBER.*

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 · 656	39 · 8	38 · 3	42 · 8	35 · 5	53	1890	19	1877	4 · 27	—	—
Stornoway	29 · 688	39 · 6	38 · 7	43 · 3	34 · 4	54	1880	15	1880	5 · 64	25 · 4	13
Wick	29 · 699	38 · 3	37 · 1	42 · 4	33 · 0	55	1889, 94	10	1882	3 · 17	—	—
Nairn	29 · 727	37 · 2	35 · 7	42 · 2	32 · 4	57	1888, 90, 91, 92, 94	10	1882	1 . 94	—	—
Aberdeen	29 · 758	37 · 0	35 · 3	42 · 0	32 · 8	58	1873	6	1882	3 · 11	39 · 9	20
Leith	29 · 797	38 · 7	37 · 2	44 · 1	33 · 7	58	1873, 88	6	1882	1 · 89	—	—
Shields	29 · 836	38 · 4	37 · 0	43 · 1	33 · 9	59	1873	10	1878, 79	2 · 32	—	—
Spurn Head	29 · 870	38 · 9	37 · 8	42 · 6	35 · 4	55*	1888	19*	1891	2 · 05	—	—
York	29 · 886	36 · 6	35 · 6	42 · 5	32 · 4	59	1888, 91	0	1879	2 · 21	26 · 5	12
Loughborough	29 · 922	36 · 4	35 · 4	43 · 0	32 · 3	59*	1888	7*	1890	2 · 24	—	—
Ardrossan	29 · 809	40 · 3	39 · 1	44 · 7	36 · 2	55	1880	15	1879	3 · 66	—	—
Malin Head	29 · 768	41 · 3	39 · 6	45 · 2	38 · 1	—	—	—	—	—	—	—
Belmullet	29 · 822	42 · 8	40 · 9	46 · 9	39 · 0	—	—	—	—	5 · 36	—	—
Donaghadee	29 · 840	40 · 4	39 · 5	45 · 8	36 · 3	56	1885, 88, 94	20	1879	2 · 85	—	—
Holyhead	29 · 876	42 · 8	41 · 2	46 · 5	39 · 2	56	1872, 88	25	1874	3 · 83	—	—
Liverpool	29 · 891	39 · 0	37 · 3	43 · 8	35 · 7	59	1891	13	1878	2 · 62	—	—
Parsonstown	29 · 891	38 · 3	37 · 0	45 · 1	33 · 5	58	1877	8	1878	3 · 09	45 · 0	20
Valencia	29 · 900	45 · 0	42 · 9	49 · 9	40 · 4	57	1884, 88	24	1886	5 · 93	43 · 9	19
Roche's Point	29 · 908	43 · 5	42 · 1	48 · 2	39 · 4	58	1873	25	1882	5 · 16	—	—
Pembroke	29 · 914	43 · 9	42 · 6	47 · 0	40 · 5	55	1876	19	1890	3 · 96	46 · 0	20
Scilly	29 · 950	47 · 4	45 · 5	49 · 8	43 · 6	57	1876	30	1890	4 · 00	—	—
Prawle Point	29 · 970	42 · 8	41 · 4	47 · 3	38 · 5	55*	1881, 88	25*	1885, 87, 90	3 · 77	—	—
Jersey	29 · 993	43 · 5	41 · 7	47 · 7	39 · 7	61	1876	19	1871	3 · 76	62 · 6	25
Hurst Castle	29 · 962	40 · 9	40 · 1	45 · 9	36 · 7	58	1876	19	1890	2 · 77	—	—
Dover	29 · 954	40 · 0	38 · 9	44 · 7	35 · 9	56	1880	12	1890	2 · 79	—	—
LONDON	29 · 956	38 · 0	36 · 8	44 · 3	34 · 0	58	1873, 88, 91	11	1878	2 · 11	11 · 8†	5†
Oxford	29 · 956	37 · 1	36 · 0	43 · 2	33 · 6	58	1888	6	1878	2 · 10	41 · 8	18
Cambridge	29 · 941	36 · 4	35 · 6	43 · 2	31 · 6	59	1878, 88	0	1879	1 · 82	41 · 2	18
Yarmouth	29 · 915	38 · 1	37 · 1	42 · 2	33 · 8	56	1873	15	1879	2 · 53	—	—

* 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 30.72 ins. at Lyons, 30.2 ins. and upwards in a large anticyclone extending from central and S.W. Europe over the greater part of England, and the southern parts of the North Sea. Lowest 29.4 ins. and less over the N. of Scandinavia. Gradients rather steep over the W. and N. of our Islands and the N. of Scandinavia, but moderate or slight elsewhere. Barometer falling over N.W. Europe generally, but rising in France and also in Portugal.

TEMPERATURE — Highest 54° at Valencia (Ireland), 53° at Parsonstown and Rockes Pt., 52° at Belmullet, Pembroke and Scilly, and 51° at Leith. Lowest (1) 13° at Munich, 16° at Belfort, 20° at Paris, and 21° at Lyons; (2) 28° at Haparanda, & 35° at Bodo. During yesterday the thermometer rose to 50° and upwards at several of our W.rn and S.rn stations, and to 54° at Valencia (Ireland) and Rockes Pt. Over the E.rn half of England it did not exceed 45° and at Cambridge and Yarmouth only reached 40°.

WIND — S.ly or SW.ly in our Islands and strong in force on many parts of our W.rn coasts. SW.ly or W.rn over Scandinavia, Denmark and N. Germany; strong in the W. of Norway, with a gale at Christiansund. Light from the E.rn or SE.rn over Belgium, France and S. Germany, moderate from ENE. at Lisbon.

WEATHER — Cloudy or dull at most of our own stations, with showers in the S. of Ireland and steady rain in some NW.rn and N.rn localities. Fine over France and in the NE. of Sweden; dull at most other Continental stations, with mist in the SW. of Norway, rain at Faro, and fog at Munich. Heavy rain fell yesterday at Christiansund and Stornoway, and slight amounts in the W. and N. generally.

SEA — Rather rough on many parts of our W.rn coasts, as well as at Christiansund and Lorient, moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 26TH DEC. 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 3.50 pm. yesterday to districts 7, 10 and part of 9. Lower Cone. At 9.20 am. today to districts 0, 1, 6, 7, 9 and 10. 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 ...	30·06	46	45	SW	6	r	5
Sumburgh Head	29·85	46	43	W	5	be	6
Stornoway	29·97	46	45	WSW	3	o	3
Aberdeen	30·06	43	43	SW	1	be	3
Shields	30·15	45	43	SSW	2	om	2
Ardrossan	30·11	48	48	W	1	c	0
Malin Head ...	30·10	45	44	S	2	o	1
Belmullet	30·07	47	46	S	1	om	*
Holyhead	30·23	52	50	SW	3	c	3

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30·12	54	51	S	4	rmw	4
Scilly	30·27	53	48	SSW	4	c	4
Jersey	30·40	44	44	ESE	2	c	2
Hurst Castle ...	30·38	48	45	SW	2	om	2
Dungeness ...	30·41	45	43	WSW	2	c	1
North Foreland	30·44	41	39	SSW	2	be	1
London (Westminster)	30·41	42	39	SSW	2	om	*
Yarmouth ...	30·37	39	37	SSW	4	be	3
Rochefort ...	30·32	46	41	SSE	3	b	*

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

Weather in morning fine in the N. of Scotland, as well as in the S. and E. of England and over France, Spain and Italy. Cloudy or dull elsewhere with passing showers at Rockes Pt., steady rain at Skudesnaes and snow at St. Petersburg. Rain falling later in the W. and N. of our Islands generally, — amounts slight in most places, but large (1·4 ins.) at Stornoway.

Temperature risen over our Islands, the W. of France and the Spanish Peninsula as well as over Nw. Russia and the S. of Scandinavia. Morning readings highest (1) 53° at San Fernando, and 52° at Lisbon and La Calle; (2) 52° at Valencia (Ireland), Rockes Pt., Pembroke and Scilly, and 51° at Parsonstown; above 45° in the Ww. parts of our Islands generally. Lowest −4 F. at Hermanstadt, +1° at Kharkoff, 10° at Nicolaieff, and 14° at Odessa; below 20° in S. Germany, and ranging between 20° and 25° over the central parts of France. Daily maxima below 40° over central France, and below 45° over the Ew. half of England, but thermometer reaching 50° or more on several parts of our Ww. coasts touching 57° at Biarritz, and 59° at Lisbon.

Wind S. 4 over the greater part of our Island; light or moderate in force generally, but strong in the Irish Sea. SW. 4 or W. 4 in the north of Scotland, and also over the Nw. parts of the Continent generally, and strong to a gale in force on the Norwegian coasts. Light from the SEward over Belgium, France and Spain; moderate to fresh from between E. and N. over Italy and the Adriatic. No important change occurring over Ww. Europe during day.

Barometer highest 30·81 ins. at Hermanstadt; 30.6 ins. and upwards over nearly the whole of Austria and Germany; 30.3 ins. and upwards in an anticyclone covering all but the Nw. parts of the Continent, and extending over the SEw. parts of England. Lowest 29.4 ins. and less in a depression with its centre off the Nw. parts of the Norwegian coasts; 30.1 ins. and less in a shallow area lying to the Sward of Italy. Barometer rising in our Islands during day; general distribution of pressure remaining unchanged.

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 Monday 26th December 1899.

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 ...	29.25	24	W	2	b	29.39	.00	14	13	− 14	W	4	b	*	b	*	30	14	—
	Hernösand ...	29.58	34	Z	0	b	29.54	— .21	23	22	?	Z	0	0	*	b	*	37	23	—
	Stockholm ...	29.75	37	Z	0	b	29.67	— .28	39	39	0	SW	2	f	*	b	*	39	34	—
	Wisby	29.91	40	SW	8	r	29.79	— .32	41	40	− 5	WSW	6	0	*	r	*	48	34	0.08
	Karlstad ...	29.79	40	Z	0	r	29.64	— .30	41	40	+ 2	SW	2	0	*	r	*	*	*	—
	Bodö	29.43	31	W	6	c	29.41	+ .05	25	25	− 7	Z	0	0	1	c	*	36	25	—
	Christiansund ...	29.71	42	WSW	2	r	29.25	— .49	42	41	0	SW	6	r	5	r	*	43	37	1.06
	Skudesnaes ...	29.78	46	S	4	r	29.58	— .47	47	47	+ 3	SW	6	0	4	r	*	47	43	*
	Færder (Christiania Fjord)	29.80	44	WSW	6	0	29.61	— .37	45	44	+ 3	WSW	6	m	4	0	*	45	42	—
	Skagen (The Scaw)	29.94	45	W	2	m	29.78	— .32	46	46	+ 2	WSW	3	m	0	m	*	46	43	0.08
	Fanö	30.12	45	SW	4	r	29.98	— .28	45	44	+ 1	SW	4	c	*	r	*	45	44	0.08
	Sumburgh Head	29.53	47	SW	3	r	29.21	— .60	48	47	+ 4	WSW	3	0	4	r	*	50	41	0.64
	Stornoway ...	29.52	52	WSW	5	rw	29.30	— .39	43	42	− 6	WSW	4	bc	4	rw	0.0	52	40	1.50
	Wick	29.59	46	SW	4	0	29.33	— .44	45	43	− 2	W	4	c	2	0	*	52	40	0.03
	Nairn	29.62	55	W	3	0	29.40	— .42	47	45	− 2	WNW	3	0	2	0	*	51	45	0.10
	Aberdeen ...	29.73	49	SSE	3	ogq	29.45	— .48	50	45	+ 4	SW	3	bc	4	ogq	0.0	54	46	—
	Leith	29.83	51	SSW	1	c	29.57	— .41	52	49	+ 1	WSW	4	c	*	c	*	55	49	0.07
	Shields	29.96	53	SW	5	0	29.70	— .40	53	51	+ 9	SW	7	0	2	p.0	*	53	43	—
	Spurn Head ...	30.14	45	SSW	4	c	29.90	— .35	46	45	+ 5	SSW	5	c	5	c	*	46	40	—
	York	30.09	49	S	2	c	29.86	— .37	50	46	+ 10	S	4	c	*	cw	?	50	38	—
	Loughborough ...	30.21	47	S	3	0	30.01	— .31	47	45	+ 7	SW	6	c	*	c.o.bcq	*	48	40	—
British Islands.	Ardrossan ...	29.84	50	S	6	omp	29.61	— .35	50	49	+ 2	SW	5	0	4	omp	*	51	48	0.12
	Malin Head ...	29.70	52	S	6	omp	29.58	— .26	48	45	− 2	W	6	cq	4	omp	*	52	46	0.15
	Belmullet ...	29.76	52	SSW	8	r	29.74	— .15	48	43	− 4	WSW	6	0	*	r	*	52	43	0.32
	Donaghadee ...	29.89	52	SW	5	c	29.71	— .30	50	49	0	WSW	7	c	5	c	*	54	50	0.09
	Liverpool (Bidston)	30.10	53	SW	3	c	29.88	— .34	54	50	+ 11	SSW	4	c	3	c	*	54	42	—
	Holyhead ...	30.08	52	SSW	6	0	29.84	— .32	53	52	+ 4	SW	8	ow	7	0	*	53	49	0.05
	Parsonstown ...	29.92	53	SE	2	0	29.84	— .20	49	46	− 4	SW	1	c	*	0.r	0.0	56	48	0.15
	Valencia ...	29.90	54	S	4	ow	29.90	— .13	51	48	− 3	SW	4	0	5	ow	0.0	54	50	0.20
	Roche's Point ...	30.05	53	SW	6	0	29.97	— .16	50	49	− 3	WSW	3	bc	4	0.r	*	54	49	0.15
	Pembroke (St. Ann's Hd.)	30.15	52	SW	6	b	29.96	— .26	54	53	+ 2	WSW	7	rq	6	b	0.9	54	52	0.02
	Scilly	30.21	53	SSW	7	b	30.09	— .18	53	51	+ 1	SSW	5	ow	5	b	2.0	55	50	0.05
	Prawle Point ...	30.35	51	SW	3	bc	30.15	— .24	51	50	+ 2	SW	5	c	4	bc	*	51	48	—
	Jersey (St. Aubin's)	30.21	46	SE	3	bc	30.29	— .15	45	45	+ 1	SSE	4	ow	3	bc	*	49	42	—
	Hurst Castle ...	30.32	50	SW	3	bc	30.19	— .20	50	48	+ 1	SW	4	cw	3	bc	*	50	48	—
	Dungeness ...	30.34	48	SSW	4	c	30.19	— .22	48	47	0	SW	5	b	4	c	*	49	46	—
	North Foreland	30.35	45	SSW	3	bc	30.19	— .25	45	43	+ 1	S	4	b	2	b.bc	*	47	43	—
	London (Brixton) ...	30.29	51	S	2	c	30.19	— .20	44	42	+ 1	SW	2	og	*	b.c.b	1.3	51	40	—
	Oxford	30.26	46	SSW	3	b	30.12	— .26	48	46	+ 6	SSW	4	ogq	*	b.c	*	48	40	—
	Cambridge ...	30.26	46	SSW	3	bc	30.10	— .29	45	43	+ 5	SSW	4	b	*	bc	2.8	49	38	—
	Yarmouth ...	30.25	44	SSW	3	c	30.12	— .26	44	42	+ 4	SSW	4	b	4	c	*	45	40	—
Germany & Holland.	Cuxhaven ...	30.31	36	SW	3	0	30.13	— .23	35	33	− 1	SW	4	bcq	*	0	*	36	34	—
	Berlin	30.40	34	SW	3	0	30.29	— .18	33	31	+ 6	SSW	4	0	*	0	*	34	27	—
	Wiesbaden ...	*	*	*	*	*									*	*	*			
	Munich	30.55	12	E	1	b	30.51	— .07	11	11	— 2	SSE	2	b	*	b	*	18	7	—
	The Helder ...	30.26	45	SW	4	0	30.14	— .23	43	42	— 3	SW	5	0	3	0	*	46	43	—
Belgium.	Brussels ...	*	*	*	*	*	30.35	— .18	31	28	+ 1	SSW	5	c	*	b	*	40	29	—
	Cape Gris Nez ...	?	39	SSW	3	m	?	?	44	41	+ 3	SW	5	bc	5	m	*	46	37	—
	Paris	30.49	29	SSE	1	b	30.43	— .11	21	21	+ 1	SSE	2	m	*	b	*	39	18	—
	Brest	30.34	52	SE	2	bc	30.25	— .13	53	50	+ 7	S	3	c	3	bc	*	52	41	—
	Lorient	30.39	46	SE	4	c	30.30	— .11	51	48	+ 6	S	2	b	2	c	*	50	43	—
France &	Rochefort ...	30.39	41	ESE	1	b	30.37	— .06	37	35	+ 3	SE	3	b	*	b	*	46	30	—
	Belfort	30.55	30	Z	0	m	30.54	— .11	25	23	+ 9	WSW	1	b	*	m	*	35	?	—
	Lyons	30.54	32	N	1	b	30.57	— .15	26	26	+ 5	S	1	b	*	b	*	34	21	—
	Nice	30.54	39	E	2	b	30.54	— .01	36	32	+ 5	E	4	b	2	b	*	48	31	—
	Perpignan ...	30.48	39	Z	0	b	30.48	— .02	30	30	— 2	SW	1	b	*	b	*	51	30	—
	Biarritz ...	30.34	49	SE	3	b	30.34	— .01	42	39	− 3	SE	3	c	2	b	*	57	41	—
Peninsula.	Corunna ...																*			
	Lisbon	30.36	49	NE	5	b	30.38	+ .04	41	38	− 3	NE	5	c	*	b	*	57	41	—
	Azores (P. Delgada)	29.93	59	NE	4	bc	30.06	+ .46	58	54	+ 1	NE	3	bc	4	bc	*	61	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 0.0 hrs;

WEATHER CHARTS

FOR Monday, 26th December, 1898

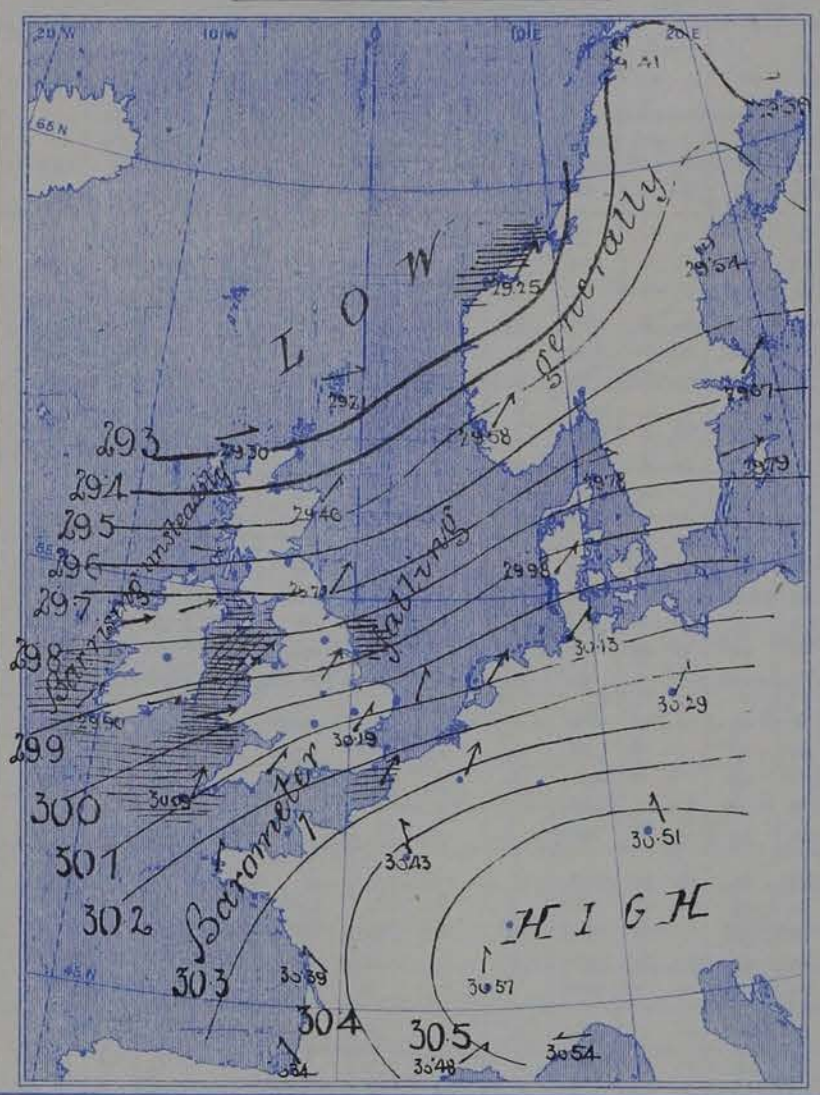
BAROMETER, WIND AND SEA.

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* ▩

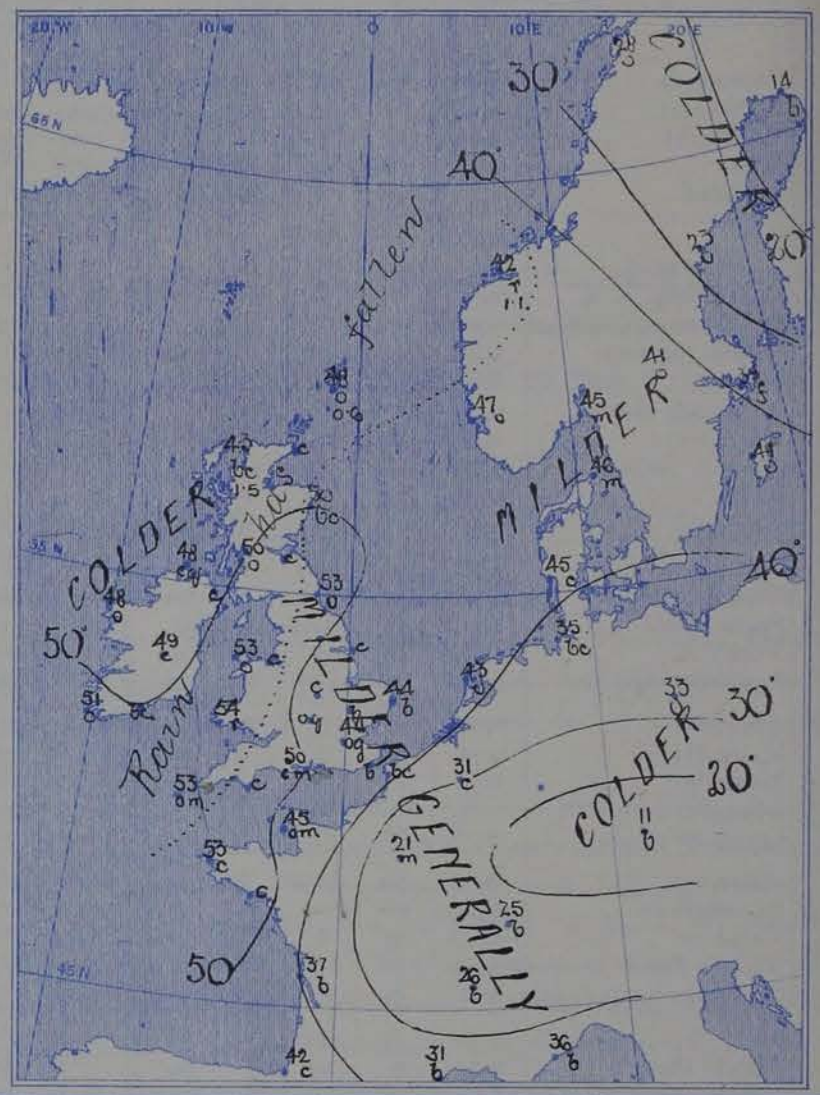


TEMPERATURE & WEATHER.

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 DECEMBER.*

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 · 656	39 · 8	38 · 3	42 · 8	35 · 5	53	1890	19	1877	4 · 27	—	—
Stornoway	29 · 688	39 · 6	38 · 7	43 · 3	34 · 4	54	1880	15	1880	5 · 64	25 · 4	13
Wick	29 · 699	38 · 3	37 · 1	42 · 4	33 · 0	55	1889, 94	10	1882	3 · 17	—	—
Nairn	29 727	37 · 2	35 · 7	42 · 2	32 · 4	57	1888, 90, 91, 92, 94	10	1882	1 . 94	—	—
Aberdeen	29 · 758	37 · 0	35 · 3	42 · 0	32 · 8	58	1873	6	1882	3 · 11	39 · 9	20
Leith	29 · 797	38 · 7	37 · 2	44 · 1	33 · 7	58	1873, 88	6	1882	1 · 89	—	—
Shields	29 · 836	38 · 4	37 · 0	43 · 1	33 · 9	59	1873	10	1878, 79	2 · 32	—	—
Spurn Head	29 · 870	38 · 9	37 · 8	42 · 6	35 · 4	55*	1888	19*	1891	2 · 05	—	—
York	29 · 886	36 · 6	35 · 6	42 · 5	32 · 4	59	1888, 91	0	1879	2 · 21	26 · 5	12
Loughborough	29 · 922	36 · 4	35 · 4	43 · 0	32 · 3	59*	1888	7*	1890	2 · 24	—	—
Ardrossan	29 · 809	40 · 3	39 · 1	44 · 7	36 · 2	55	1880	15	1879	3 · 66	—	—
Malin Head	29 · 768	41 · 3	39 · 6	45 · 2	38 · 1	—	—	—	—	—	—	—
Belmullet	29 · 822	42 · 8	40 · 9	46 · 9	39 · 0	—	—	—	—	5 · 36	—	—
Donaghadee	29 · 840	40 · 4	39 · 5	45 · 8	36 · 3	56	1885, 88, 94	20	1879	2 · 85	—	—
Holyhead	29 · 876	42 · 8	41 · 2	46 · 5	39 · 2	56	1872, 88	25	1874	3 · 83	—	—
Liverpool	29 · 891	39 · 0	37 · 3	43 · 8	35 · 7	59	1891	13	1878	2 · 62	—	—
Parsonstown	29 · 891	38 · 3	37 · 0	45 · 1	33 · 5	58	1877	8	1878	3 · 09	45 · 0	20
Valencia	29 · 900	45 · 0	42 · 9	49 · 9	40 · 4	57	1884, 88	24	1886	5 · 93	43 · 9	19
Roche's Point	29 · 908	43 · 5	42 · 1	48 · 2	39 · 4	58	1873	25	1882	5 · 16	—	—
Pembroke	29 · 914	43 · 9	42 · 6	47 · 0	40 · 5	55	1876	19	1890	3 · 96	46 · 0	20
Scilly	29 · 950	47 · 4	45 · 5	49 · 8	43 · 6	57	1876	30	1890	4 · 00	—	—
Prawle Point	29 · 970	42 · 8	41 · 4	47 · 3	38 · 5	55*	1881, 88	25*	1885, 87, 90	3 · 77	—	—
Jersey	29 · 903	43 · 5	41 · 7	47 · 7	39 · 7	61	1876	19	1871	3 · 76	62 · 6	25
Hurst Castle	29 · 962	40 · 9	40 · 1	45 · 9	36 · 7	58	1876	19	1890	2 · 77	—	—
Dover	29 · 954	40 · 0	38 · 9	44 · 7	35 · 9	56	1880	12	1890	2 · 79	—	—
LONDON	29 · 956	38 · 0	36 · 8	44 · 3	34 · 0	58	1873, 88, 91	11	1878	2 · 11	11 · 8†	5†
Oxford	29 · 956	37 · 1	36 · 0	43 · 2	33 · 6	58	1888	6	1878	2 · 10	41 · 8	18
Cambridge	29 · 941	36 · 4	35 · 6	43 · 2	31 · 6	59	1878, 88	0	1879	1 82	41 2	18
Yarmouth	29 · 915	38 · 1	37 · 1	42 · 2	33 · 8	56	1873	15	1879	2 · 53	—	—

* 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 over the E. and S. of France; 30.2 ins. and upwards in an anticyclone extending from central and S.W. Europe over the English Channel.
Lowest 29.3 ins. and less in a large depression lying to the N.W. of our Islands.
Gradients rather steep over whole of our Islands, the North Sea, Denmark and the S. of Scandinavia; moderate or slight elsewhere. Barometer falling over W.N. Europe as a whole, but rising in the W. of Ireland.

TEMPERATURE

Highest 54° at Liverpool and Pembroke, 53° at Shields, Holyhead and Scilly, and 52° at Leith, and 51° at Valencia (Ireland)
Lowest (1) 11° at Munich, 21° at Paris, 25° at Belfort, and 26° at Lyons; (2) 14° at Haparanda, 23° at Hernösand, and 28° at Bodö
During yesterday the thermometer rose to between 50° and 55° in many parts of the United Kingdom to 56° at Parsonstown, and to 57° at Nairn.

WIND

SW. by W. over northwestern Europe generally, and strong in force on many parts of the English and Irish coasts.
Light from the S.W. or S.E. in France.

WEATHER

Fine in places, but cloudy or dull over N.W. Europe as a whole, with rain at Pembroke and also at Christiansund.
Fine and bright over France and S. Germany.
Rain fell yesterday in the W. and N. of our Islands generally, and also on the eastern shores of the North Sea, the largest amounts being 1.5 ins. at Stornoway, 1.1 in. at Christian

SEA

High at Holyhead, and rather rough on our W. coasts generally, as well as at Spurn Hd

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The barometer is at present rising in the W., but further depressions are likely to appear shortly off our N.W. coasts. Strong S.W. winds and mild changeable weather will probably continue for a time in most places.

FORECASTS

For the 24 hours ending at NOON on 27TH DECEMBER 1898

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
▼ 0 SCOTLAND NORTH	W. by S. to SW. by W. winds, strong in places, fair at first, some rain later.	▼ 6 SCOTLAND WEST	SW. by W. winds, strong, a gale in places, squally, some showers
▼ 1 SCOTLAND EAST		▼ 7 ENGLAND N.W.	
2 ENGLAND N.E.	SW. by W. winds, fresh or strong, fair generally, but local showers.	8 ENGLAND S.W.	Same as No. 2.
3 ENGLAND EAST	SW. by W. winds, fresh, fair generally, but perhaps local showers.	▼ 9 IRELAND NORTH	SW. by W. to S. by W. winds, strong, fair at first, some rain later.
4 MIDLAND COUNTIES		▼ 10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	The South Cone is still flying in districts 0, 1, 6, 7, 9 and 10.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.89	46	46	SSW	4	r	4
Sumburgh Head							
Stornoway	29.88	52	52	SW	5	d	5
Aberdeen							
Shields							
Ardrossan							
Malin Head ...	29.78	52	52	S	6	c	3
Belmullet	29.81	52	52	SSW	6	cm	*
Holyhead							
Valencia							
Scilly							
Jersey	30.43	47	44	SE	3	bc	3
Hurst Castle ...							
Dungeness ...	30.36	49	47	SSW	4	b	3
North Foreland	30.37	47	45	SSW	3	b	2
London (Westminster)							*
Yarmouth ...							
Rochefort ...	30.41	45	44	ESE	3	b	*

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

Continental information not yet received.

SUMMARY OF CHANGES IN THE WEATHER OVER EUROPE FROM THE 18TH TO 24TH DEC. 1898.

At the beginning of the week the type of weather was very similar to that reported earlier in the month. Over the S^rn. countries the conditions were influenced by a large anticyclone which covered the whole of S^rn. and a considerable portion of Central Europe, while in the N^rn. and NW^rn. countries they were affected by large depressions moving eastwards from the Atlantic across Scandinavia and N^rn. Russia. On the 18th and 19th the wind in the rear of one of these disturbances blew with the force of a gale from the W. and NW over nearly the whole of Scotland and from the NW or N. over northern Europe.

On the 20th, however, a large anticyclone spread over our Islands from the W^nd. and during the remainder of the week this system drifted very slowly E^rds. across Europe. For a time N^ly. and NW^ly. breezes were therefore prevalent in most countries, but in our Islands the wind afterwards backed to the SW^rd. or S^th., and on the 22^nd. and 23^rd. when depressions skirted our extreme W. and NW. coasts a moderate to fresh gale was experienced in these regions. Over the Continent the presence of the anticyclone was marked by a fall of temperature to a rather low level, the cold weather spreading eventually over the E^rn. and S^rn. parts of France. At the close of the week, however, a milder current seemed to be extending over our Islands from the W^rd.

Over Italy and the neighbouring parts of the Mediterranean the weather in the middle portion of the week was influenced by a depression which formed over the Gulf of Genoa on the 20th and which afterwards increased in depth and moved SE^rly. directly across Italy; this occasioned heavy rain in several parts of that country, the wind in its rear blowing with considerable force from the E^rd. and NE^rd.

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 Tuesday, 27th December, 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 ...	29.21	8	W	2	b	29.00	-.37	18	17	+14	W	2	o	5	b	*	27	-2	0.24
	Hernösand ...	29.07	35	SSW	4	f	29.24	-.30	32	30	+9	SW	2	b	*	f	*	35	16	0.04
	Stockholm ...	29.140	45	SW	6	o	29.52	-.15	40	39	+1	W	4	o	*	o	*	40	34	-
	Wisby	29.65	45	WSW	8	o	29.68	-.11	43	41	+2	WSW	6	o	*	o	*	45	37	-
	Karlstad ...	29.44	47	SW	6	b	29.51	-.13	40	37	-1	SW	4	c	*	b	*	*	*	-
	Bodö	28.98	30	E	6	S	28.91	-.50	39	38	+11	E	6	r	4	S	*	?	25	0.28
	Christiansund ...	29.13	42	WSW	8	r	29.17	-.08	41	39	-1	WSW	8	r	6	r	*	46	37	0.87
	Skudesnaes ...	29.37	46	SW	6	bc	29.38	-.20	45	44	-2	S	6	o	5	m.bc	*	49	45	*
	Færder (Christiania Fjord)	29.46	45	SSW	6	c	29.48	-.13	44	43	-1	WSW	5	o	4	c	*	45	44	-
	Skagen (The Scaw)	29.67	45	W	4	o	29.58	-.20	42	42	-4	SW	2	r	0	o	*	48	42	0.08
	Fanö	29.89	46	SW	6	o	29.65	-.33	43	42	-2	SW	6	r	*	o	*	46	43	0.08
British Islands	Sumburgh Head	29.25	44	W	7	bc	29.04	-.17	42	41	-6	S	2	c	4	c.bc	*	48	40	0.42
	Stornoway ...	29.36	43	W	4	b	28.70	-.60	44	43	+1	SE	4	r	4	rhq.r	0.0	45	36	0.70
	Wick	29.44	40	SW	4	bc	28.82	-.51	45	44	0	S	6	ru	4	bc	*	46	38	0.05
	Nairn	29.48	42	WSW	3	o	28.81	-.50	43	41	-2	SSE	1	o	1	o	*	47	36	0.09
	Aberdeen ...	29.53	42	SW	3	bc	28.94	-.52	45	44	-5	S	7	ogq.r	5	bc	4.4	50	41	0.11
	Leith	29.62	45	WSW	1	bc	28.90	-.67	50	48	-2	SSW	2	r	#	bc	*	52	44	0.05
	Shields	29.74	47	SW	3	c	29.14	-.56	47	47	-6	SSW	5	r	2	c	*	53	44	0.03
	Spurn Head ...	29.85	48	WSW	4	r	29.31	-.50	51	46	+5	S	6	o	5	r	*	52	45	0.49
	York	29.83	49	S	2	c	29.23	-.63	53	50	+3	S	4	or	#	c.o	0.0	55	46	0.35
	Loughborough ...	29.90	52	SW	4	r	29.41	-.60	53	50	+6	SW	6	op	#	cq.oqp	*	56	47	0.11
	Ardrossan ...	29.65	49	SW	4	o	28.86	-.75	50	49	0	SSW	8	c	6	c.o	*	50	45	0.24
	Malin Head ...	29.57	45	SSW	5	opm	28.65	-.93	44	43	-4	SSW	7	cqqm	4	bc.mp	*	48	43	0.07
	Belmullet ...	29.66	[illegible]	WSW	3	c	28.97	-.77	47	43	-1	WSW	12	o	#	o	*	51	43	0.50
	Donaghadee ...	29.70	46	SSW	4	r	28.95	-.76	50	46	0	WSW	8	c	6	r	*	51	46	0.31
	Liverpool (Bidston)	29.62	51	SW	3	o	29.24	-.64	48	45	-6	WSW	7	r	?	o,d,r	*	54	45	0.55
	Holyhead ...	29.81	51	SW	5	opm	29.13	-.71	49	47	-4	SSW	7	oq	7	rp2.om	*	53	47	0.48
	Parsonstown ...	29.73	47	SW	1	r	29.05	-.79	45	44	-4	SSW	3	o.qr	*	o,r	0.0	51	44	0.63
	Valencia ...	29.70	51	S	4	qmr	29.05	-.75	48	43	-3	SW	7	opr	8	o.qm.r	0.0	53	43	0.73
	Roche's Point ...	29.79	50	SW	5	r	29.28	-.69	47	46	-2	SSW	8	c	6	c.r	*	53	48	1.40
	Pembroke (St Ann's Hd.)	29.84	52	SSW	5	-	29.35	-.61	49	48	-5	WSW	8	rq	7	r	2.0	54	48	1.35
	Scilly	29.94	54	SSW	6	o	29.49	-.60	54	52	+1	SSW	9	r	6	mp.o	0.0	56	51	0.07
	Prawle Point ...	30.02	52	SW	5	o	29.59	-.56	53	52	+2	SW	7	r	5	o.p	*	54	49	0.01
	Jersey (St. Aubin's)	30.19	51	S	3	c	29.65	-.44	53	50	+8	S	7	cm	5	o,cq	*	53	44	-
	Hurst Castle ...	30.05	53	SW	5	cm	29.61	-.58	55	51	+5	SSW	7	cm	4	cm	*	55	39	-
	Dungeness ...	30.10	50	SSW	5	c	29.76	-.43	51	49	+3	SSW	6	o	5	bc.cm	*	51	48	-
	North Foreland	30.12	49	SSW	5	c	29.78	-.41	50	47	+5	S	6	c	4	bc.c	*	50	44	-
	London (Brixton) ...	30.04	51	SW	4	o	29.67	-.52	54	47	+10	SSW	8	oq	*	o.oqp	0.0	55	44	0.01
	Oxford	29.93	53	SSW	5	o	29.53	-.59	55	49	+7	S	6	oqp	*	o	*	56	45	0.01
	Cambridge ...	29.98	52	SW	5	o	29.54	-.56	54	48	+9	SSW	8	o	*	c.o	1.1	55	43	-
	Yarmouth ...	29.95	48	SSW	4	o	29.51	-.61	49	46	+5	SSW	6	cqq	5	c.o	*	49	42	-
Germany & Holland	Cuxhaven ...	30.05	36	SW	5	b	29.83	-.30	39	39	+4	SW	6	o	*	b	*	39	35	-
	Berlin	30.21	34	SSW	3	c	30.12	-.17	32	31	-1	SW	4	b	*	c	*	37	28	-
	Wiesbaden ...	*	*	*	*	*	30.28		22	21		S	2	o	*	*	*	32	20	-
	Munich	30.45	21	SE	2	bc	30.38	-.13	17	17	+6	SW	2	b	*	bc	*	23	10	-
	The Helder ...	30.02	45	SW	5	r	29.74	-.40	44	41	+1	SSW	7	bc	3	r	*	45	43	-
Belgium.	Brussels ...	*	*	*	*	*	30.02	-.33	39	36	+8	SSW	5	c	*	b	*	40	30	-
	Cape Gris Nez																#			
	Paris	30.34	35	S	2	b	30.16	-.27	35	34	+14	SSW	3	bc	*	b	*	42	21	-
	Brest	30.14	53	S	3	o	29.80	-.45	55	52	+3	SW	5	o	6	o	*	55	50	-
	Lorient	30.22	53	S	4	b	29.95	-.35	52	51	+3	SSW	6	c	5	b	*	57	50	-
France	Rochefort ...	30.32	45	SSE	3	c	30.18	-.21	40	39	+3	S	4	bc	*	b	*	48	34	-
	Belfort	30.41	37	W	1	b	30.37	-.17	32	30	+7	W	2	b	*	b	*	45	25	-
	Lyons ...	30.48	37	ESE	1	b	30.37	-.20	39	39	+13	S	1	bv	*	b	*	41	31	-
	Nice	30.47	48	E	2	b	30.49	-.05	39	33	+3	E	0	b	1	b	*	50	36	-
	Perpignan ...	30.44	38	E	0	bc	30.34	-.14	31	30	0	SW	1	b	*	bc	*	50	28	-
	Biarritz ...	30.32	51	S	4	b	30.18	-.16	50	42	+8	S	4	b	2	b	*	55	42	-
Peninsula	Corunna ...																#			
	Lisbon	30.34	45	NNE	4	c	30.34	-.04	40	37	-1	NNE	4	b	*	c	*	52	39	-
	Azores (P. Delgada)	30.13	56	NNE	3	bc	30.13	+.07	58	56	0	NNE	3	bc	3	bc	*	63	54	-

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

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 Tuesday, 27th December, 1898

BAROMETER, WIND AND SEA.

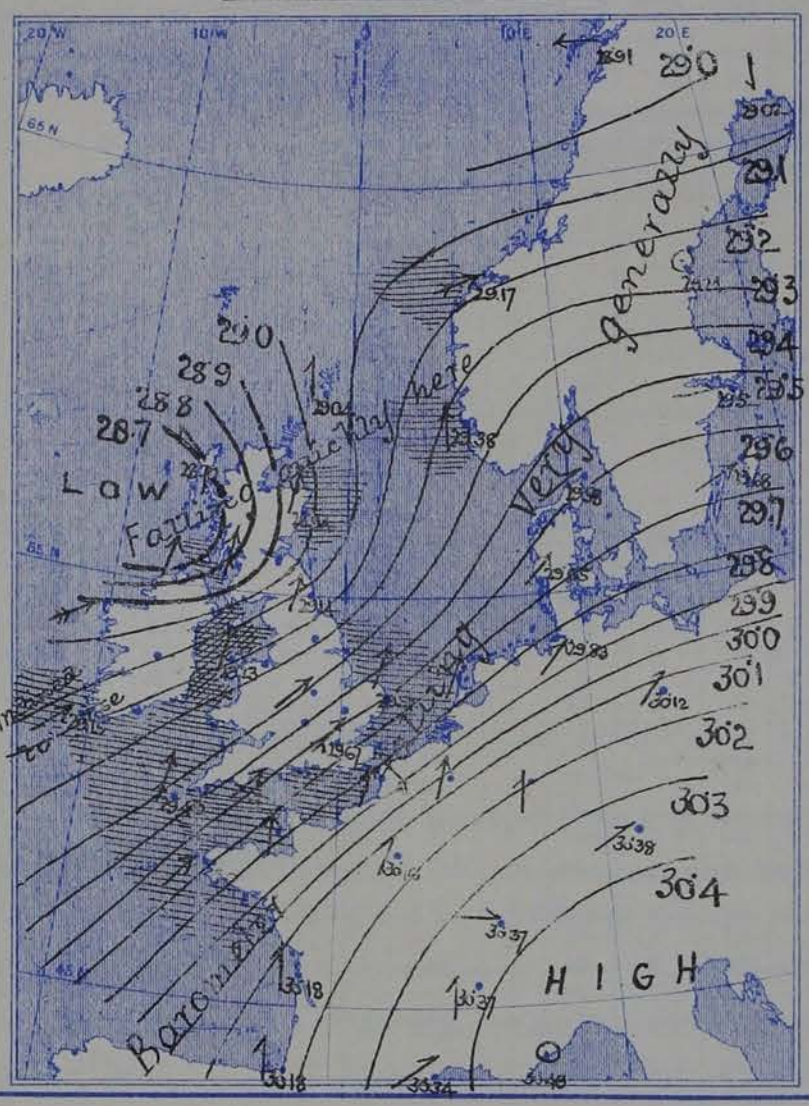
BAROMETER—Isobars are drawn for each tenth of an inch.

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 ▤

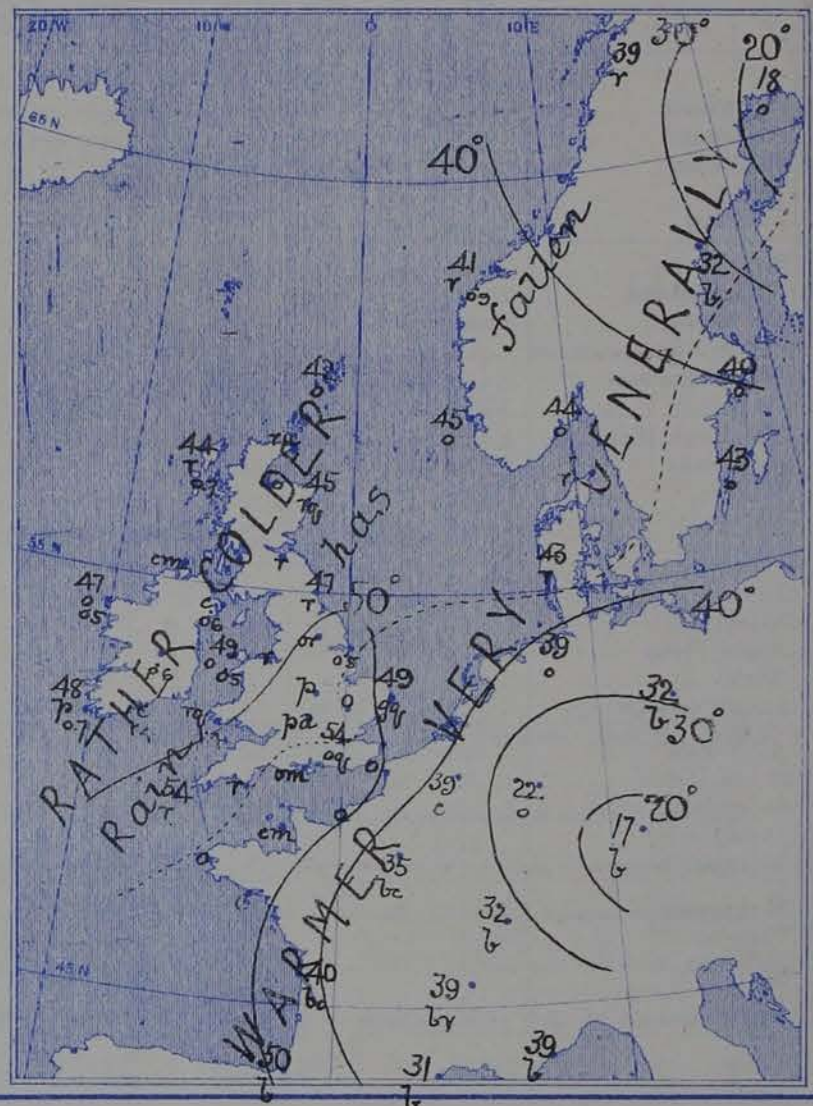


TEMPERATURE & WEATHER.

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 DECEMBER.

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 · 656	39 · 8	38 · 3	42 · 8	35 · 5	53	1890	19	1877	4 · 27	—	—
Stornoway	29 · 688	39 · 6	38 · 7	43 · 3	34 · 4	54	1880	15	1880	5 · 64	25 · 4	13
Wick	29 · 699	38 · 3	37 · 1	42 · 4	33 · 0	55	1889, 94	10	1882	3 · 17	—	—
Nairn	29 727	37 · 2	35 · 7	42 · 2	32 · 4	57	1888, 90, 91, 92, 94	10	1882	1 . 94	—	—
Aberdeen	29 · 758	37 · 0	35 · 3	42 · 0	32 · 8	58	1873	6	1882	3 · 11	39 · 9	20
Leith	29 · 797	38 · 7	37 · 2	44 · 1	33 · 7	58	1873, 88	6	1882	1 · 89	—	—
Shields	29 · 836	38 · 4	37 · 0	43 · 1	33 · 9	59	1873	10	1878, 79	2 · 32	—	—
Spurn Head	29 · 870	38 · 9	37 · 8	42 · 6	35 · 4	55*	1888	19*	1891	2 · 05	—	—
York	29 · 886	36 · 6	35 · 6	42 · 5	32 · 4	59	1888, 91	0	1879	2 · 21	26 · 5	12
Loughborough	29 · 922	36 · 4	35 · 4	43 · 0	32 · 3	59*	1888	7*	1890	2 · 24	—	—
Ardrossan	29 · 809	40 · 3	39 · 1	44 · 7	36 · 2	55	1880	15	1879	3 · 66	—	—
Malin Head	29 · 768	41 · 3	39 · 6	45 · 2	38 · 1	—	—	—	—	—	—	—
Belmullet	29 · 822	42 8	40 · 9	46 · 9	39 · 0	—	—	—	—	5 · 36	—	—
Donaghadee	29 · 840	40 · 4	39 · 5	45 · 8	36 · 3	56	1885, 88, 94	20	1879	2 · 85	—	—
Holyhead	29 · 876	42 · 8	41 · 2	46 · 5	39 · 2	56	1872, 88	25	1874	3 · 83	—	—
Liverpool	29 · 891	39 · 0	37 · 3	43 · 8	35 · 7	59	1891	13	1878	2 · 62	—	—
Parsonstown	29 · 891	38 · 3	37 · 0	45 · 1	33 · 5	58	1877	8	1878	3 · 09	45 · 0	20
Valencia	29 · 900	45 · 0	42 · 9	49 · 9	40 · 4	57	1884, 88	24	1886	5 · 93	43 · 9	19
Roche's Point	29 · 908	43 · 5	42 · 1	48 · 2	39 · 4	58	1873	25	1882	5 · 16	—	—
Pembroke	29 · 914	43 · 9	42 6	47 · 0	40 · 5	55	1876	19	1890	3 · 96	46 · 0	20
Scilly	29 · 950	47 · 4	45 · 5	49 · 8	43 · 6	57	1876	30	1890	4 · 00	—	—
Prawle Point	29 · 970	42 · 8	41 · 4	47 · 3	38 · 5	55*	1881, 88	25*	1885, 87, 90	3 · 77	—	—
Jersey	29 · 993	43 · 5	41 · 7	47 · 7	39 · 7	61	1876	19	1871	3 · 76	62 · 6	25
Hurst Castle	29 · 962	40 · 9	40 · 1	45 · 9	36 · 7	58	1876	19	1890	2 · 77	—	—
Dover	29 · 954	40 · 0	38 · 9	44 · 7	35 · 9	56	1880	12	1890	2 · 79	—	—
LONDON	29 · 956	38 · 0	36 · 8	44 · 3	34 · 0	58	1873, 88, 91	11	1878	2 · 11	11 · 8†	5†
Oxford	29 · 956	37 · 1	36 · 0	43 · 2	33 · 6	58	1888	6	1878	2 · 10	41 · 8	18
Cambridge	29 · 941	36 · 4	35 · 6	43 · 2	31 · 6	59	1878, 88	0	1879	1 · 82	41 · 2	18
Yarmouth	29 · 915	38 · 1	37 · 1	42 · 2	33 · 8	56	1873	15	1879	2 · 53	—	—

* 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 in: at Nice; 30·1 in: and upwards in an anticyclone lying over the greater part of France and Germany.
Lowest, 28·7 in:: and less, in a deep depression with its centre off the west of Scotland.
Gradients steep over our Islands, the North Sea, and the neighbouring parts of the Continent, but slight elsewhere.
Barometer falling over the greater part of Western Europe, quickly on our northern coasts, but inclined to rise at Valencia (Ireland).

TEMPERATURE

Highest, 55° at Oxford, Hunt Castle and Brest, and 54° at Scilly, Cambridge and Lorient.
Lowest, (1) 17° at Munich, 22° at Wiesbaden, and 32° at Berlin and Belfast; (2) 18° at Haparanda and 32° at Hernösand.
In the course of the past 24 hours the thermometer has risen to between 50° and 55° in nearly all parts of the United Kingdom and to 56° at Loughborough, Scilly and Oxford.

WIND

S^{t} or SSW^{t} over Western Europe generally, and strong in force over the whole of our Islands and their immediate neighbourhood with gales on all our western coasts.
W^{t} in the south of Sweden, but E^{t} at Bodö.

WEATHER

Cloudy or dull over northwestern Europe generally, with rain in many parts of Great Britain, as well as in Denmark and the west of Norway, fine over the greater part of France and Germany.
In the course of the past 24 hours rain has fallen at all our western and northern stations, and also in Scandinavia & Denmark, the largest amounts being 1·4 in: at Rochert^{s} and Pembroke, 0·9 in: at Christiansund, and 0·7 in: at Stornoway and Valencia (Ireland).

SEA

High at Holyhead, and rough or rather so on nearly all other parts of our coasts, as well as off the west of Norway.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

In the course of the past night the centre of a large and deep depression has advanced to the west of Scotland. The depression seems likely to travel in a northerly or northeasterly direction and will probably occasion a further increase of wind on our north and east coasts.

FORECASTS

For the 24 hours ending at NOON on 28th DEC^{r} 1898

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
▼ 0 SCOTLAND NORTH	S^{ly} to SW^{ly} gales and strong winds, squally, some rain.	▼ 6 SCOTLAND WEST	SW^{ly} to W^{ly} gales, moderating later, squally, showery.
▼ 1 SCOTLAND EAST		▼ 7 ENGLAND N.W.	
▼ 2 ENGLAND N.E.		▼ 8 ENGLAND S.W.	
▼ 3 ENGLAND EAST	SW^{ly} to W^{ly} gales and strong winds, moderating later, squally and rainy then fair.	▼ 9 IRELAND NORTH	
4 MIDLAND COUNTIES		▼ 10 IRELAND SOUTH	
▼ 5 ENGLAND SOUTH			

WARNINGS

At 7·20 pm yesterday to districts 5 & 8 "Hoist South Cone".
At 10·15 am today to districts 2 and 3 Hoist South Cone".
At 10·20 am to districts 0. 1. 6. 7. 8. and 10 "Keep up 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.		BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.45	49	47	SW	4	m	5	Valencia	29.82	51	47	Sr	2	o	4
Sumburgh Head	29.23	43	40	W	5	c	5	Scilly	30.02	55	53	SSW	6	opm	5
Stornoway	29.24	45	43	W	5	r	5	Jersey	30.23	48	47	SSE	3	c	3
Aberdeen								Hurst Castle ...	30.11	53	50	Sr	4	sm	3
Shields	29.75	53	48	Sw	4	c	2	Dungeness ...	30.12	49	48	SW	5	bc	4
Ardrossan	29.65	48	48	Sw	5	c	4	North Foreland	30.12	49	46	SSW	5	bc	3
Malin Head ...	29.61	46	45	WSW	6	bc	3	London (Westminster)	30.07	52	49	sw	3	o	*
Belmullet	29.71	49	46	WSW	8	o	*	Yarmouth ...	30.01	48	47	SSW	5	c	4
Holyhead	29.87	51	50	WSW	5	ompd	4	Rochefort ...	30.35	48	45	SSE	3	b	*

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 Wednesday, 28th December, 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 ...	29.09	23	NE	0	0		- .36	28	26	+ 8	NE	4	S	*	0	*	23	7	0.04
	Hernösand ...	29.12	23	NE	0	0	28.71	- .53	38	36	+ 6	SSW	2	b	*	0	*	39	19	0.24
	Stockholm ...	29.27	40	SSW	4	0	29.17	- .35	41	39	+ 1	SW	6	0	*	0	*	46	37	0.04
	Wisby	29.47	42	SW	8	0	29.38	- .30	41	39	- 2	SW	8	0	*	0	*	43	37	0.39
	Karlstad ...	29.13	44	SSW	8	0	29.08	- .43	42	40	+ 2	SW	8	0	*	0	*	*	*	0.18
	Bodö	28.87	39	NE	0	bc	28.66	- .25	33	30	- 6	E	2	b	1	bc	*	39	32	-
	Christiansund ...	28.73	41	ESE	2	r	28.73	- .44	40	39	- 1	ESE	1	r	4	r	*	41	37	0.23
	Skudesnaes ...	29.06	46	SSW	9	0	28.83	- .75	45	44	0	S	9	0	4	r.0	*	46	41	*
	Færder (Christiania Fjord)	29.01	46	SSW	8	m	28.97	- .51	45	43	+ 1	SW	7	0	5	m	*	46	41	0.08
	Skagen (The Scaw)	29.20	45	WSW	5	m	29.12	- .46	44	44	+ 2	SW	6	m	2	m	*	46	42	0.20
	Fanö	29.40	45	SSW	7	0	29.28	- .37	44	42	+ 1	SSW	6	c	*	0	*	46	43	-
British Islands.	Sumburgh Head	28.45	44	SW	8	0	28.79	- .25	42	40	0	N	4	0	5	r.0	*	45	40	0.51
	Stornoway ...	28.21	45	SE	6	d	29.11	+ .41	42	41	- 2	NW	8	c	3	rq.d	0.0	45	39	1.10
	Wick	28.41	44	S	5	0	?	?	43	42	- 2	NW	4	0	4	0	*	48	40	0.25
	Nairn	28.33	42	WSW	8	b	29.03	+ .22	43	39	- 2	WNW	5	0	4	b.r	*	48	39	0.23
	Aberdeen ...	28.55	44	SW	10	ogpu	28.95	+ .01	41	39	- 4	NW	9	ogrq	5	qp	0.4	48	38	0.26
	Leith	28.67	45	SSW	8	0	29.09	+ .19	44	41	- 6	WSW	8	0	*	0	*	53	34	0.15
	Shields	28.98	47	SW	7	c	29.09	- .05	41	40	- 6	WSW	6	0	2	r.c	*	52	40	0.05
	Spurn Head ...	29.23	47	SSW	7	b	29.28	- .03	41	39	- 10	SW	6	c	5	0.b	*	54	45	0.04
	York	29.17	48	SSW	5	0	29.30	+ .07	43	40	- 10	WSW	5	0	*	0q	?	54	40	0.05
	Loughborough ...	29.34	46	SW	6	bc	29.42	+ .01	39	36	- 14	W	5	b	*	rq.bq	*	54	39	0.20
	Ardrossan ...	28.64	46	SSW	10	ogp	29.19	+ .33	46	46	- 4	NNW	6	0	5	cqp	*	50	40	0.11
	Malin Head ...	28.51	44	W	11	r	29.29	+ .64	44	42	0	NNW	6	cq	5	rq	*	45	35	0.88
	Belmullet ...	29.04	46	W	10	0	29.49	+ .79	43	40	- 4	NNW	7	c	*	0	*	47	40	0.15
	Donaghadee ...	28.85	45	WSW	9	c	29.31	+ .36	45	40	- 5	?SW	6	r	4	c	*	52	43	0.07
	Liverpool (Bidston)	29.21	44	SW	7	b	29.37	+ .13	43	39	- 5	WSW	6	bc	7	p.b	*	50	41	0.04
	Holyhead ...	29.18	47	WSW	9	bq	29.40	+ .27	44	41	- 5	NNW	8	cq	6	cqp	*	51	41	0.01
	Parsonstown ...	29.20	42	W	8	r	29.53	+ .48	35	35	- 10	E	0	b	*	qp	[illegible]	46	35	0.07
	Valencia ...	29.35	46	W	6	cqhp	29.68	+ .48	46	41	- 2	W	6	bcq	6	cqhp	1.2	49	39	0.17
	Roche's Point ..	29.36	45	W	5	b	29.59	+ .31	40	39	- 8	NNW	4	bcp	5	b	*	48	38	0.08
	Pembroke (St Ann's Hd.)	29.33	50	NNW	8	bc	29.55	+ .20	44	42	- 5	NNW	7	cq	6	0.bc	0.0	52	43	0.06
	Scilly	29.45	48	WSW	5	cp	29.65	+ .16	45	43	- 9	W	7	cq	6	0.p	0.0	54	42	0.53
	Prawle Point ...	29.52	45	SW	5	r	29.61	+ .02	42	40	- 11	W	5	bc	3	cr	*	50	37	0.70
	Jersey (St. Aubin's)	29.63	50	SW	3	rm	29.68	- .17	46	43	- 7	W	5	cqr	5	c.rm	*	54	42	1.22
	Hurst Castle ...	29.52	49	WSW	6	rm	29.59	- .02	43	41	- 12	W	3	c	3	rq.rm	*	55	43	0.54
	Dungeness ...	29.57	49	SW	7	r	29.55	- .21	45	44	- 6	W	4	c	3	cr	*	53	44	0.28
	North Foreland	29.57	48	S	5	0	29.55	- .23	42	41	- 8	WSW	3	cp	2	0	*	52	42	0.11
	London (Brixton) ...	29.52	46	SW	5	od	29.54	- .13	39	37	- 15	WSW	1	b	*	orq	0.0	55	39	0.60
	Oxford	29.45	45	SSW	4	0	29.52	- .01	38	37	- 17	WSW	2	b	*	oqp	*	55	38	0.25
	Cambridge ...	29.44	48	SSW	7	0	29.47	- .07	39	38	- 15	SW	4	b	*	o	0.0	56	38	0.15
	Yarmouth ...	29.38	44	SSW	6	0	29.45	- .06	40	39	- 9	SW	4	b	3	cq.o	*	52	38	0.04
Germany & Holland.	Cuxhaven ...	29.63	43	SSW	6	0	29.43	- .40	43	42	+ 4	SW	7	or	*	o.r	*	43	39	0.16
	Berlin	29.93	36	S	4	b	29.74	- .38	36	33	+ 4	N	3	b	*	b	*	41	30	-
	Wiesbaden ...	*	*	*	*	*	29.84	- .44	31	30	+ 9	S	1	bc	*	*	*	34	22	-
	Munich	30.17	30	SW	0	b	30.01	- .37	24	21	+ 7	SW	4	b	*	b	*	34	17	-
	The Helder ...	29.52	46	SW	7	c	29.41	- .33	45	43	+ 2	SW	3	0	3	0	*	46	43	0.08
Belgium.	Brussels ...	*	*	*	*	*	29.64	- .38	42	40	+ 3	SW	4	r	*	0	*	46	38	0.12
	Cape Gris Nez	?	47	SW	7	r	?	?	48	44		W	5	0	5	r	*	50	43	0.59
	Paris ...	29.90	43	S	4	0	29.75	- .41	42	41	+ 7	SSW	4	r	*	0	*	46	35	0.04
	Brest ...	29.64	50	SW	5	r	29.75	- .05	46	42	- 9	WNW	5	c	6	r	*	55	41	0.75
	Lorient ...	29.64	54	SW	8	r	29.82	- .13	48	43	- 6	NW	5	c	7	r	*	57	43	0.75
France &	Rochefort ...	29.90	47	SW	4	c	29.93	- .25	48	47	+ 8	WNW	5	r	*	bc.c	*	50	34	0.16
	Belfort	30.10	42	W	3	b	29.94	- .43	37	34	+ 5	W	2	c	*	b	*	44	21	-
	Lyons	30.19	45	?	4	b	30.02	- .35	45	41	+ 6	S	3	bc	*	b	*	48	39	-
	Nice	30.39	45	E	1	c	30.28	- .21	41	39	+ 2	E	4	0	4	c	*	52	38	0.04
	Perpignan ...	30.18	48	S	2	b	30.11	- .23	34	32	+ 3	W	2	bc	*	b	*	54	31	-
	Biarritz ...	30.04	53	S	5	b	30.05	- .13	53	46	+ 3	SW	6	0	5	b	*	55	48	-
Peninsula.	Corunna ...																*			
	Lisbon	30.27	50	E	0	b	30.34	- .00	46	45	+ 6	NNE	2	0	*	b	*	54	40	0.04
	Azores (P. Delgada)	30.26	57	NNE	3	b	30.32	+ .19	56	52	- 2	NNE	2	bc	3	b	*	63	54	-

For Explanation of Columns, see bottom of last page. Erratum.—The Bar. reading at Belmullet for 8 a.m. yesterday should read "29.70".

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 [illegible] hrs.

WEATHER CHARTS

FOR Wednesday, 28th December 1898

BAROMETER, WIND AND SEA.

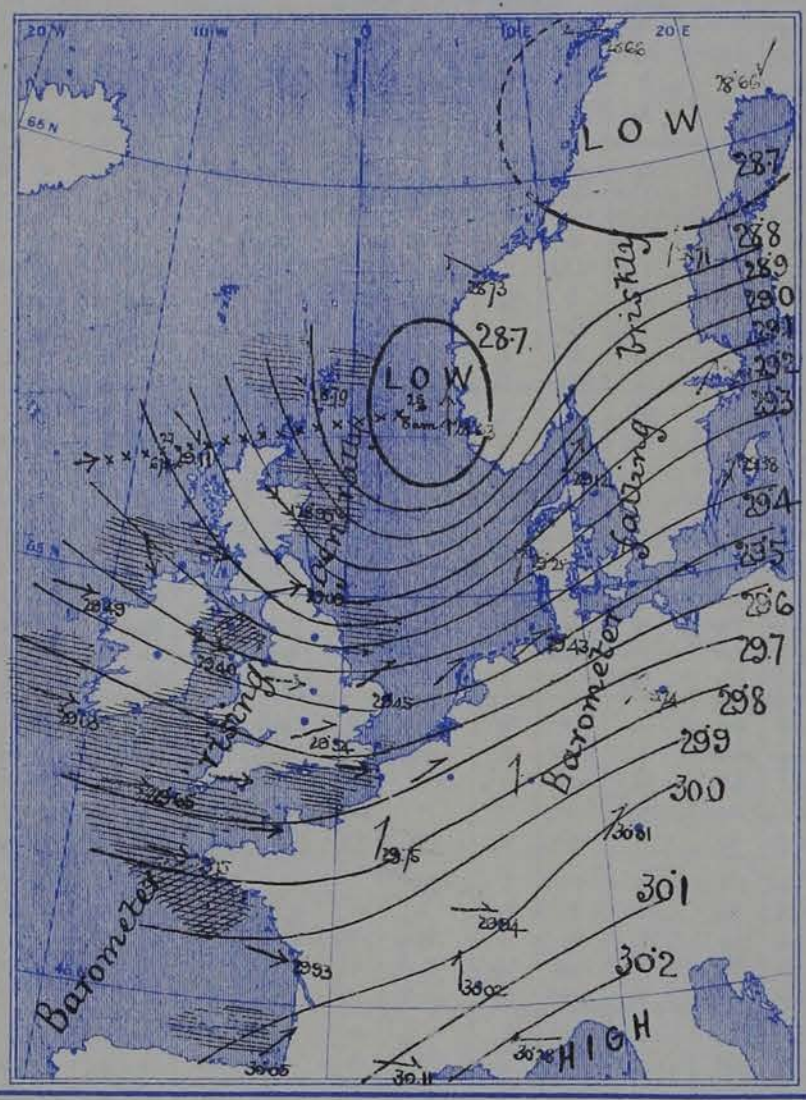
BAROMETER—Isobars are drawn for each tenth of an inch.

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* ▤

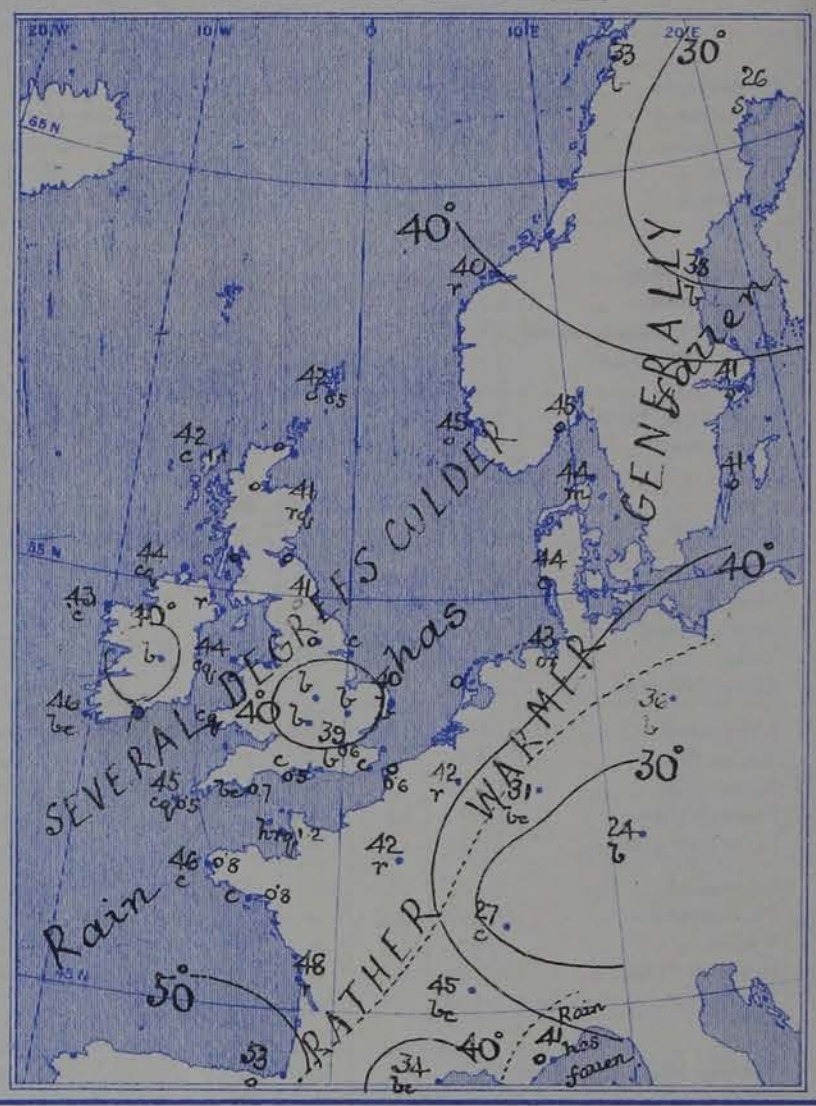


TEMPERATURE & WEATHER.

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 DECEMBER.*

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 · 656	39 · 8	38 · 3	42 · 8	35 · 5	53	1890	19	1877	4 · 27	—	—
Stornoway	29 · 688	39 · 6	38 · 7	43 · 3	34 · 4	54	1880	15	1880	5 · 64	25 · 4	13
Wick	29 · 699	38 · 3	37 · 1	42 · 4	33 · 0	55	1889, 94	10	1882	3 · 17	—	—
Nairn	29 727	37 · 2	35 · 7	42 · 2	32 · 4	57	1888, 90, 91, 92, 94	10	1882	1 . 94	—	—
Aberdeen	29 · 758	37 · 0	35 · 3	42 · 0	32 · 8	58	1873	6	1882	3 · 11	39 · 9	20
Leith	29 · 797	38 · 7	37 · 2	44 · 1	33 · 7	58	1873, 88	6	1882	1 · 89	—	—
Shields	29 · 836	38 · 4	37 · 0	43 · 1	33 · 9	59	1873	10	1878, 79	2 · 32	—	—
Spurn Head	29 · 870	38 · 9	37 · 8	42 · 6	35 · 4	55*	1888	19*	1891	2 · 05	—	—
York	29 · 886	36 · 6	35 · 6	42 · 5	32 · 4	59	1888, 91	0	1879	2 · 21	26 · 5	12
Loughborough	29 · 922	36 · 4	35 · 4	43 · 0	32 · 3	59*	1888	7*	1890	2 · 24	—	—
Ardrossan	29 · 809	40 · 3	39 · 1	44 · 7	36 · 2	55	1880	15	1879	3 · 66	—	—
Malin Head	29 · 768	41 · 3	39 · 6	45 · 2	38 · 1	—	—	—	—	—	—	—
Belmullet	29 · 822	42 8	40 · 9	46 · 9	39 · 0	—	—	—	—	5 · 36	—	—
Donaghadee	29 · 840	40 · 4	39 · 5	45 · 8	36 · 3	56	1885, 88, 94	20	1879	2 · 85	—	—
Holyhead	29 · 876	42 · 8	41 · 2	46 · 5	39 · 2	56	1872, 88	25	1874	3 · 83	—	—
Liverpool	29 · 891	39 · 0	37 · 3	43 · 8	35 · 7	59	1891	13	1878	2 · 62	—	—
Parsonstown	29 · 891	38 · 3	37 · 0	45 · 1	33 · 5	58	1877	8	1878	3 · 09	45 · 0	20
Valencia	29 · 900	45 · 0	42 · 9	49 · 9	40 · 4	57	1884, 88	24	1886	5 · 93	43 · 9	19
Roche's Point	29 · 908	43 · 5	42 · 1	48 · 2	39 · 4	58	1873	25	1882	5 · 16	—	—
Pembroke	29 · 914	43 · 9	42 6	47 · 0	40 · 5	55	1876	19	1890	3 · 96	46 · 0	20
Scilly	29 · 950	47 · 4	45 · 5	49 · 8	43 · 6	57	1876	30	1890	4 · 00	—	—
Prawle Point	29 · 970	42 · 8	41 · 4	47 · 3	38 · 5	55*	1881, 88	25*	1885, 87, 90	3 · 77	—	—
Jersey	29 · 993	43 · 5	41 · 7	47 · 7	39 · 7	61	1876	19	1871	3 · 76	62 · 6	25
Hurst Castle	29 · 962	40 · 9	40 · 1	45 · 9	36 · 7	58	1876	19	1890	2 · 77	—	—
Dover	29 · 954	40 · 0	38 · 9	44 · 7	35 · 9	56	1880	12	1890	2 · 79	—	—
LONDON	29 · 956	38 · 0	36 · 8	44 · 3	34 · 0	58	1873, 88, 91	11	1878	2 · 11	11 · 8†	5†
Oxford	29 · 956	37 · 1	36 · 0	43 · 2	33 · 6	58	1888	6	1878	2 · 10	41 · 8	18
Cambridge	29 · 941	36 · 4	35 · 6	43 · 2	31 · 6	59	1878, 88	0	1879	1 · 82	41 · 2	18
Yarmouth	29 · 915	38 · 1	37 · 1	42 · 2	33 · 8	56	1873	15	1879	2 · 53	—	—

* 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 in Portugal; 30·2 in: and upwards in the extreme south of France.
Lowest, 28·7 in: and less in a depression with its centre off the southwest of Norway, and also in a large area over the northern part of Scandinavia.
Gradients steep over the North Sea and rather steep over northwestern Europe generally, but slight over Norway and the north of Sweden.
Barometer rising in most part of our Islands and also in the west of France, falling in Scandinavia, Denmark, and Germany.

TEMPERATURE

Highest, 53° at Biarritz; 48° at Cape Finisterre, Lorient, and Rochefort, and 46° at Ardorsan, Valencia (Ireland), Jersey, Brest and Lisbon.
Lowest, (1) 24° at Munich, 31° at Wilhelmshaven, 34° at Skudesnaes, and 36° at Berlin; (2) 36° at Haparanda, and 33° at Bodö.
During yesterday the thermometer rose to between 50° and 55° in many parts of the United Kingdom and to 56° at Cambridge.

WIND

NW^{1} in Scotland, with a gale at Aberdeen.
W^{3} on the west coasts of our Islands and France, and strong to a gale in force over the Irish Sea.
SW^{1} or S^{1} in most other parts of Western Europe, with a gale over the southern part of Scandinavia.

WEATHER

Fine over the greater part of England and also over Germany and the south of France.
Cloudy or dull elsewhere, with rain at some of the Irish and Scotch stations, as well as at Paris, Brussels, Cuxhaven and Christiansund.
Snow is falling at Haparanda.
Rain fell yesterday over nearly the whole of Western Europe, the largest amounts being 1·2 in: at Jersey, 1·1 in: at Stornoway, 0·9 in: at Mullaghmore, and 0·8 in: at Brest and Lorient.

SEA

High at Liverpool and Lorient and rough or rather so on nearly all our coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression which was approaching the west of Scotland yesterday has travelled in an east-north-easterly direction, and is now passing away towards the Norwegian coasts. There are at present no indications of the advance of any new disturbance of importance, but small secondary systems are likely to be developed over various parts of the United Kingdom.

FORECASTS

For the 24 hours ending at NOON on 29TH DECR 1898

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
▼ 0 SCOTLAND NORTH	Strong NW$^{3/4}$ winds, moderating and backing later; changeable, some cold showers.	▼ 6 SCOTLAND WEST	W$^{3/4}$ and SW$^{3/4}$ winds, strong, a gale in places, 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	SW$^{3/4}$ and W$^{3/4}$ winds, strong in places; changeable, some showers.	WARNINGS	The South Cone is still flying in all districts excepting No 10.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.		BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29 03	45	43	S	6	r	5	Valencia	29·23	47	42	SW	8	c q	7
Sumburgh Head	28·53	44	44	S	5	r	6	Scilly	29·48	52	48	WSW	7	o u	6
Stornoway	28·38	45	44	SSW	7	r	7	Jersey	29·70	54	51	SSE	6	o	5
Aberdeen	28·72	43	39	SW	8	bc q p	5	Hurst Castle ...	29·56	50	48	WSW	6	r q	4
Shields	29·02	47	44	SSW	4	c q	2	Dungeness ...	29·58	52	50	SSW	8	u	7
Ardrossan	28·70	46	46	SSW	10	c q	8	North Foreland	29·62	51	47	S	6	o	4
Malin Head ...	28·36	43	43	SSW	11	r q	7	London (Westminster)	29·48	53	50	WSW	8	o q p	#
Belmullet							*	Yarmouth ...	29·42	52	48	SSW	6	c q	5
Holyhead	29·13	48	43	WSW	9	c q p	7	Rochefort ...	30·00	49	47	S	4	bc	#

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

Continental Information not received.

General Remarks on the Weather over Europe for the 24 hours ended at 8 a.m. on Dec.r 27th 1895.

Weather in morning cloudy or dull over northwestern, northern, and central Europe generally, with rain at Kemlinbe and also at Christiansund. Fine on the east and southeast coasts of England, as well as over France and southern Europe generally; fine also over Finland and Lapland. Rain falling late in all the more western and northern parts of our Islands, as well as in many parts of Scandinavia and Denmark, the largest amounts being 1·4 in. at Rockabeare and Pembroke.

Temperature risen over England and the western parts of the Continent, but fallen elsewhere. Morning readings highest 55° at Oxford, Hurst Castle and Kent, and 54° at Scilly, Cambridge and Lorient; above 50° in many parts of the United Kingdom and also over the Central part of the Mediterranean. Lowest (1) 7° at Hernaantadt, 11° at Munich, 20° at Vienna, and 21° at Paris; (2) 12° at Ulsaberg, 14° at Haparanda, and 19° at Archangel. Rising generally to 55° or slightly above it at several of the English stations, and also in the west and south of France.

Wind SW over our Islands and northern Europe generally, and strong in force in many places, with a gale at Holyhead. Light from the S.W. or S.E. over the greater part of France and South Germany. NE over the Spanish Peninsula; N or NW in Italy, calm in Austria, W in Russia. Subsequently moderating in force on many of our own coasts, but increasing to a gale at some of the Scandinavian stations.

Barometer highest 30·63 in: at Hernaantadt; 30·61 in: at Florence; 30·1 in: and upwards in an anticyclone embracing the whole of central and southern Europe and extending over the south of England. Lowest 29·2 in: and less, in a large disturbance lying to the northward of our Islands. Latter system subsequently moving eastwards, but new depression beginning to approach our 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.

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DAILY WEATHER REPORT

for 8 a.m. on Thursday 29th December, 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 ...	28·81	18	Z	0	bc	28·89	+ ·23	18	18	— 8	Z	0	f	*	bc	*	27	14	—
	Hernösand ...	28·94	37	Z	0	0	28·96	+ ·25	29	28	— 9	NW	2	0	*	0	*	39	23	—
	Stockholm ...	29·04	39	SSW	6	b	28·94	— ·23	39	38	— 2	SW	2	0	*	b	*	43	37	—
	Wisby	29·25	40	SW	6	b	29·12	— ·26	42	40	+ 1	WNW	8	0	*	b	*	43	37	—
	Karlstad ...	28·89	40	SW	6	0	29·11	+ ·03	34	32	— 8	N	2	b	*	0.r	*	*	*	—
	Bodo	28·75	30	E	2	bc	28·70	+ ·04	34	32	+ 1	Z	0	c	1	bc	*	34	27	—
	Christiansund ...	28·91	37	ESE	2	r	29·01	+ ·28	34	33	— 8	WSW	8	s	5	r	*	40	34	0·32
	Skudesnaes ...	29·08	43	NNW	6	c	29·25	+ ·62	35	34	— 10	N	2	b	4	c	*	45	34	*
	Færder (Christiania Fjord)	28·80	43	SSW	6	bc	29·14	+ ·17	40	36	— 5	W	4	0	4	bc	*	45	40	—
	Skagen (The Scaw)	28·94	43	W	3	0	29·23	+ ·11	42	42	— 2	WNW	3	r	0	0	*	46	41	0·04
	Fano	29·28	43	WSW	5	c	29·43	+ ·15	40	38	— 4	W	4	c	*	c	*	45	42	0·12
British Islands.	Sumburgh Head	29·12	39	NW	2	c	29·27	+ ·48	34	32	— 8	NNE	1	bc	4	c	*	43	32	0·02
	Stornoway ...	29·26	38	WNW	3	r	29·23	+ ·12	30	29	— 12	WNW	3	bc	3	p.r	0·7	40	27	0·12
	Wick	29·23	43	NW	3	bc	29·27	?	31	30	— 12	NW	2	c	2	bc	*	46	29	0·05
	Nairn	29·30	36	W	1	c	29·26	+ ·23	28	27	— 15	Z	0	b	1	c	*	45	25	—
	Aberdeen ...	29·31	38	SW	2	bc	29·29	+ ·34	29	28	— 12	W	2	b	3	cg.bc	0·2	42	29	0·01
	Leith	29·35	41	W	2	c	29·22	+ ·13	37	36	— 7	Z	0	ow	*	c	*	46	34	0·01
	Shields	29·44	40	WSW	3	c	29·29	+ ·20	39	38	— 2	SW	2	0	2	c	*	46	36	—
	Spurn Head ...	29·51	41	SW	4	bc	29·31	+ ·03	40	40	— 1	S	4	r	4	bc	*	42	37	0·08
	York	29·50	42	W	4	bc	29·24	— ·06	39	38	— 4	ESE	2	r	*	bc	0·0	45	36	0·10
	Loughborough ...	29·61	40	W	3	b	29·26	— ·16	40	40	+ 1	SSE	3	crg	*	cg.bc.r	*	44	37	0·16
	Ardrossan ...	29·42	41	W	4	pq	29·16	— ·03	39	39	— 7	NE	2	rf	1	c.pq	*	46	38	0·10
	Malin Head ...	29·40	44	W	6	chq	29·04	— ·25	42	41	— 2	ESE	6	r	5	bc.chq	*	45	38	0·08
	Belmullet ...	29·56	45	W	3	bc	28·98	— ·51	47	47	+ 4	ESE	3	0	*	b,bc	*	47	43	0·50
	Donaghadee ...	29·49	38	SSW	4	bc	29·05	— ·26	45	45	0	E	6	r	4	bc	*	45	37	0·28
	Liverpool (Bidston)	29·59	40	WSW	5	b	29·10	— ·27	41	40	— 2	ESE	4	r	4	b	*	44	37	0·07
	Holyhead ...	29·60	43	WNW	5	bc	29·00	— ·40	49	48	+ 5	?SE	6	ow	4	bc	*	49	41	0·17
	Parsonstown ...	29·62	40	NW	1	bc	28·99	— ·54	43	42	+ 8	Z	0	0	*	bc.r	4·8	46	34	0·09
	Valencia ...	29·67	46	SW	3	a	29·00	— ·63	47	46	+ 1	SW	4	0	6	bcqr.c.o	3·5	52	43	0·48
	Roche's Point ...	29·72	43	W	3	c	29·06	— ·53	48	47	+ 8	WSW	5	c	5	b.c.rq	*	48	40	0·50
	Pembroke (St. Ann's Hd.)	29·69	46	NW	6	bc	29·10	— ·45	52	50	+ 8	W	7	bcq	6	bc	3·6	53	40	0·40
	Scilly	29·79	48	W	5	cp	29·21	— ·44	50	49	+ 5	WSW	7	c	5	cp	3·4	60	43	0·20
	Prawle Point ...	29·81	40	W	5	bc	29·24	— ·37	51	50	+ 9	WSW	6	cp	5	cp.bcq	*	54	37	0·28
	Jersey (St. Aubin's)	29·83	48	W	5	bcphrq	29·45	— ·23	50	49	+ 4	SSW	8	rm	6	c.phrq	*	50	41	0·49
	Hurst Castle ...	29·75	44	WNW	4	b	29·31	— ·28	50	49	+ 7	SSW	6	dm	4	c,b	*	50	42	0·19
	Dungeness ...	29·69	41	WSW	4	bc	29·45	— ·10	47	46	+ 2	SSW	6	r	5	b.bc	*	48	37	0·03
	North Foreland	29·61	40	SW	3	bc	29·39	— ·16	44	44	+ 2	SSE	5	r	3	bc	*	44	35	0·02
	London (Brixton) ...	29·68	38	W	2	b	29·37	— ·17	46	45	+ 7	SSW	5	cp	*	b	4·0	47	36	0·01
	Oxford	29·72	37	SW	3	b	29·26	— ·26	46	45	+ 8	S	5	rgq	*	b	*	46	36	0·05
	Cambridge ...	29·65	42	SW	3	0	29·37	— ·10	42	41	+ 3	SSE	4	r	*	b.o	5·0	46	32	0·03
	Yarmouth ...	29·55	42	W	5	bc	29·41	— ·04	43	42	+ 3	S	4	crg	4	b.bc	*	44	35	0·03
Germany & Holland.	Cuxhaven ...	29·44	42	SW	6	b	29·55	+ ·12	39	38	— 4	SW	5	0	*	b.r	*	43	37	0·16
	Berlin	29·66	42	SW	3	0	29·74	·00	38	36	+ 2	SW	4	r	*	0	*	45	34	—
	Wiesbaden ...	*	*	*	*	*	29·89	+ ·05	38	35	+ 7	SW	2	0	*	*	*	39	31	0·04
	Munich	29·97	33	W	2	0	30·02	+ ·01	32	32	+ 8	S	3	b	*	0	*	39	23	—
	The Helder ...	29·50	44	SW	6	0	29·55	+ ·14	44	41	— 2	SW	3	c	3	0	*	46	43	—
Belgium.	Brussels ...	*	*	*	*	*	29·72	+ ·08	35	34	— 7	SSE	5	0	*	0	*	42	33	0·04
	Cape Gris Nez ...	?	47	W	5	c	?	?	41	39	— 7	SSW	5	r	5	c	*	50	37	0·04
	Paris	29·92	37	SSW	2	0	29·84	+ ·09	38	37	— 4	SSW	2	0	*	0	*	47	34	0·04
	Brest	29·91	49	WNW	5	c	29·43	— ·32	51	51	+ 5	SW	6	r	6	c	*	54	45	0·43
	Lorient	29·97	48	W	6	r	29·54	— ·28	52	52	+ 4	SW	8	r	8	r	*	57	48	0·51
France &	Rochefort ...	30·06	50	NW	6	0	29·89	— ·04	52	47	+ 4	SW	6	0	*	ohq	*	54	45	0·28
	Belfort ...	29·99	39	SW	7	0	30·01	+ ·07	36	34	— 1	WSW	5	0	*	0	*	48	35	0·08
	Lyons ...	30·15	43	W	2	0	30·15	+ ·13	36	34	— 9	S	1	0	*	0	*	47	34	—
	Nice	30·16	42	E	2	0	29·97	— ·31	44	36	+ 3	E	1	bc	3	0	*	48	37	0·20
	Perpignan ...	30·21	44	NW	1	0	30·18	+ ·07	45	40	+ 11	SW	2	0	*	0	*	52	34	—
	Biarritz ...	30·18	52	W	6	r	30·04	— ·01	46	41	— 7	S	3	c	4	r	*	54	45	0·24
Peninsula.	Corunna ...																*			
	Lisbon	30·44	50	NNW	1	0	30·40	+ ·06	48	46	+ 2	Z	0	0	*	0	*	55	46	—
	Azores (P. Delgada)	30·41	59	WSW	2	0	30·40	+ ·08	59	55	+ 3	W	2	b	2	0	*	64	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 0·2 hrs;

WEATHER CHARTS

FOR Thursday, 29th December 1898

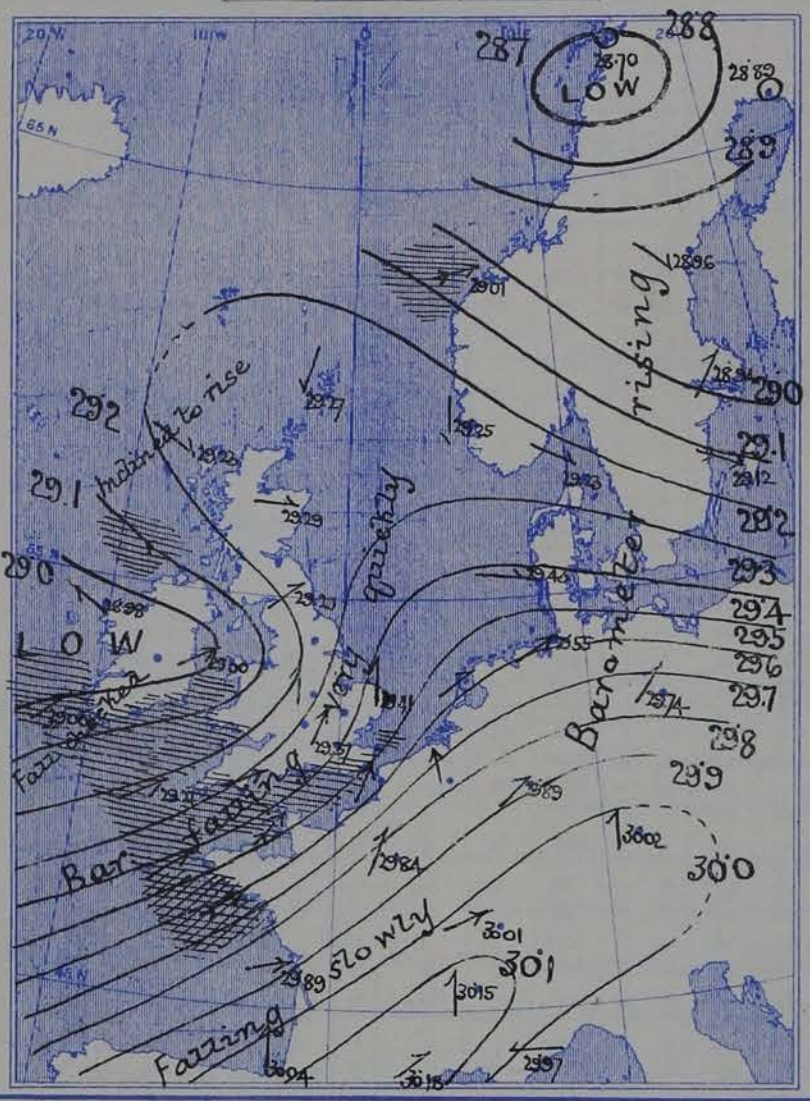
BAROMETER, WIND AND SEA.

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 ▩

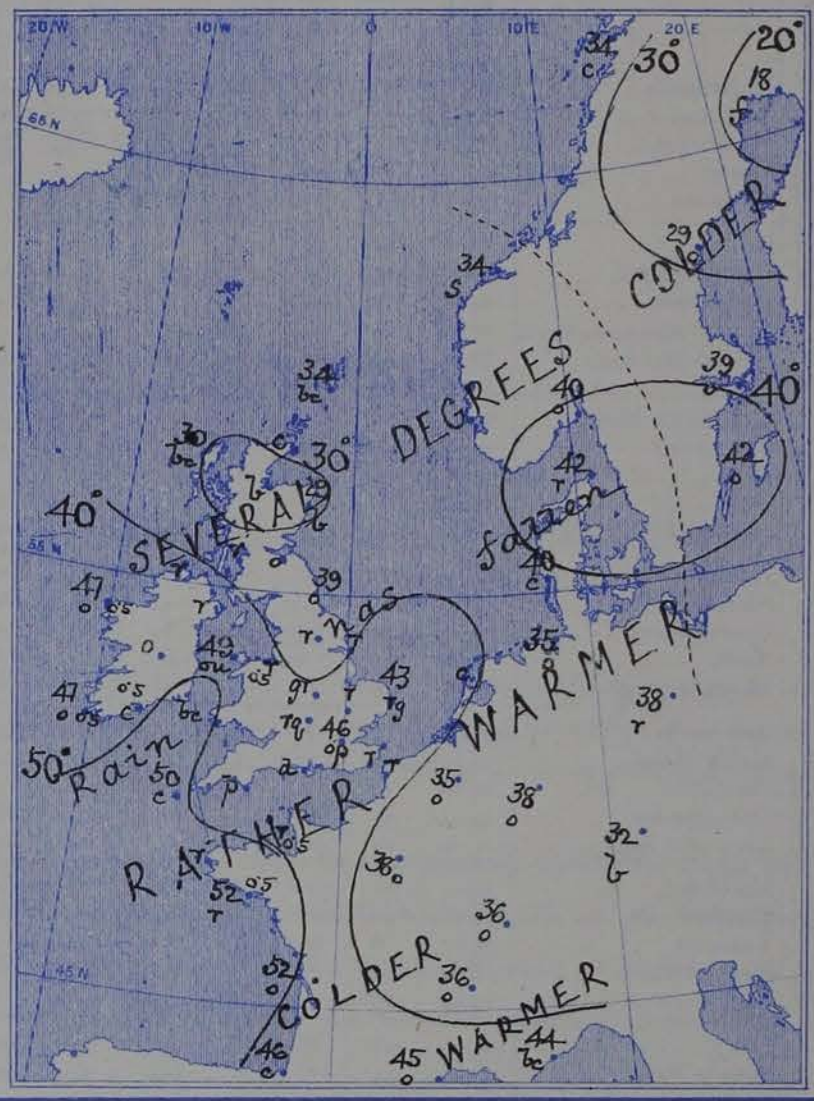


TEMPERATURE & WEATHER.

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 DECEMBER.*

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 · 656	39 · 8	38 · 3	42 · 8	35 · 5	53	1890	19	1877	4 · 27	—	—
Stornoway	29 · 688	39 · 6	38 · 7	43 · 3	34 · 4	54	1880	15	1880	5 · 64	25 · 4	13
Wick	29 · 699	38 · 3	37 · 1	42 · 4	33 · 0	55	1889, 94	10	1882	3 · 17	—	—
Nairn	29 727	37 · 2	35 · 7	42 · 2	32 · 4	57	1888, 90, 91, 92, 94	10	1882	1 . 94	—	—
Aberdeen	29 · 758	37 · 0	35 · 3	42 · 0	32 · 8	58	1873	6	1882	3 · 11	39 · 9	20
Leith	29 · 797	38 · 7	37 · 2	44 · 1	33 · 7	58	1873, 88	6	1882	1 · 89	—	—
Shields	29 · 836	38 · 4	37 · 0	43 · 1	33 · 9	59	1873	10	1878, 79	2 · 32	—	—
Spurn Head	29 · 870	38 · 9	37 · 8	42 · 6	35 · 4	55*	1888	19*	1891	2 · 05	—	—
York	29 · 886	36 · 6	35 · 6	42 · 5	32 · 4	59	1888, 91	0	1879	2 · 21	26 · 5	12
Loughborough	29 · 922	36 · 4	35 · 4	43 · 0	32 · 3	59*	1888	7*	1890	2 · 24	—	—
Ardrossan	29 · 809	40 · 3	39 · 1	44 · 7	36 · 2	55	1880	15	1879	3 · 66	—	—
Malin Head	29 · 768	41 · 3	39 · 6	45 · 2	38 · 1	—	—	—	—	—	—	—
Belmullet	29 · 822	42 8	40 · 9	46 · 9	39 · 0	—	—	—	—	5 · 36	—	—
Donaghadee	29 · 840	40 · 4	39 · 5	45 · 8	36 · 3	56	1885, 88, 94	20	1879	2 · 85	—	—
Holyhead	29 · 876	42 · 8	41 · 2	46 · 5	39 · 2	56	1872, 88	25	1874	3 · 83	—	—
Liverpool	29 · 891	39 · 0	37 · 3	43 · 8	35 · 7	59	1891	13	1878	2 · 62	—	—
Parsonstown	29 · 891	38 · 3	37 · 0	45 · 1	33 · 5	58	1877	8	1878	3 · 09	45 · 0	20
Valencia	29 · 900	45 · 0	42 · 9	49 · 9	40 · 4	57	1884, 88	24	1886	5 · 93	43 · 9	19
Roche's Point	29 · 908	43 · 5	42 · 1	48 · 2	39 · 4	58	1873	25	1882	5 · 16	—	—
Pembroke	29 · 914	43 · 9	42 6	47 · 0	40 · 5	55	1876	19	1890	3 · 96	46 · 0	20
Scilly	29 · 950	47 · 4	45 · 5	49 · 8	43 · 6	57	1876	30	1890	4 · 00	—	—
Prawle Point	29 · 970	42 · 8	41 · 4	47 · 3	38 · 5	55*	1881, 88	25*	1885, 87, 90	3 · 77	—	—
Jersey	29 · 993	43 · 5	41 · 7	47 · 7	39 · 7	61	1876	19	1871	3 · 76	62 · 6	25
Hurst Castle	29 · 962	40 · 9	40 · 1	45 · 9	36 · 7	58	1876	19	1890	2 · 77	—	—
Dover	29 · 954	40 · 0	38 · 9	44 · 7	35 · 9	56	1880	12	1890	2 · 79	—	—
LONDON	29 · 956	38 · 0	36 · 8	44 · 3	34 · 0	58	1873, 88, 91	11	1878	2 · 11	11 · 8†	5†
Oxford	29 · 956	37 · 1	36 · 0	43 · 2	33 · 6	58	1888	6	1878	2 · 10	41 · 8	18
Cambridge	29 · 941	36 · 4	35 · 6	43 · 2	31 · 6	59	1878, 88	0	1879	1 · 82	41 · 2	18
Yarmouth	29 · 915	38 · 1	37 · 1	42 · 2	33 · 8	56	1873	15	1879	2 · 53	—	—

* 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 30.40 ins. at Lisbon; 30.1 ins. and upwards in an anticyclone extending from the Spanish Peninsula over the southern parts of France.
Lowest 28.7 ins. and less in a depression lying over the Nrn. parts of Norway; 29.0 ins. and less in a new disturbance which has appeared over Ireland.
Gradients steep over the English Channel, the Netherlands and the N. of France, but moderate or slight elsewhere.
Barometer falling in most parts of our Islands and France, – quickly over England; rising in Scandinavia, Denmark and Germany.

TEMPERATURE

Highest 52° at Pembroke, Lorient and Rochefort, 51° at Prawle Pt., and 50° at Scilly and Jersey.
Lowest (1) 18° at Haparanda, and 29° at Hernösand; (2) 28° at Nairn, and 29° at Aberdeen; (3) 32° at Munich, and 36° at Belfort and Lyons.
Frost occurred last night in the N. of Scotland, and on the surface of the ground over the Nrn. and central parts of England.

WIND

Strong from the SWwd. over the southern parts of the United Kingdom and the north and west of France, with a gale at Jersey and Lorient; light to moderate from the same quarter or from S. over central France, the Netherlands and Germany.
Light from the SEwd. over the north of England, strong from the Ewd. in the north of Ireland.
W. by S. or NW. in the north of Scotland, and also in Scandinavia and Denmark, with a gale at Christiansund and Wisby.

WEATHER

Dull over Wrn. Europe as a whole, with rain over nearly the whole of England, the N. of Ireland and the N. of France as well as at Berlin and Faroë. Snow was falling at Christiansund.
Fine in the N. of Scotland, and also at some stations in the S. of Scandinavia.
Since yesterday morning rain has fallen in nearly all parts of our area, the largest amounts being 0.5 in. at Belmullet, Valencia (Ireland), Roche's Pt. Jersey and Lorient. Lunar halos were seen last night in the S. of England and also at Belmullet.

SEA

Rough or rather so on our S. and SW coasts generally, as well as at Malin H.d & Christiansund.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

In the course of the night a new depression has appeared over Ireland, and has begun to spread rapidly over England. The wind seems likely to increase to a gale from the SWwd. and Wwd. on most parts of our southern coasts; freshening winds from the Ewd. are probable in the north.

FORECASTS

For the 24 hours ending at NOON on 30TH DECEMBER. 1898.

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	Wind shifting to the Ewd. and freshening; fine at first, unsettled later, with snow or cold rain.
1	SCOTLAND EAST	
2	ENGLAND N.E.	SE. by E. winds, freshening; dull, rainy.
↑ 3	ENGLAND EAST	S. by E. to W. by S. gales or strong winds; squally, showery.
4	MIDLAND COUNTIES	
↑ 5	ENGLAND SOUTH	
6	SCOTLAND WEST	E. by S. winds, strong; dull, rain at times.
7	ENGLAND N.W.	Varying S. by E. winds, unsettled, rain at times.
↑ 8	ENGLAND S.W.	SW. by S. and W. by S. gales and strong winds; squally, showery.
9	IRELAND NORTH	Same as No. 6.
↑ 10	IRELAND SOUTH	Same as No. 8.
	WARNINGS	At 7.20 pm yesterday to district 10, and at 9.40 am today to districts 3, 5 and 8. 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 ...	28·79	45	43	NW	8	o	8
Sumburgh Head	29·02	40	37	N	4	c	5
Stornoway	29·22	40	40	WNW	3	r	3
Aberdeen	29·23	41	38	WNW	3	cg	3
Shields	29·34	44	42	W	4	c	2
Ardrossan	29·36	46	46	W	5	c	4
Malin Head ...	29·39	44	40	W	5	bc	5
Belmullet	29·57	46	43	W	4	b	*
Holyhead	29·54	44	42	WNW	7	bc	6
Valencia	29·70	47	43	W	5	c	5
Scilly	29·76	48	44	W	6	cp	5
Jersey	29·79	47	44	WNW	6	c	5
Hurst Castle ...	29·68	46	43	W	4	c	3
Dungeness ...	29·62	45	43	WSW	4	b	3
North Foreland	29·61	44	42	SW	3	bc	2
London (Westminster)	29·61	46	42	WSW	2	bc	*
Yarmouth ...	29·48	44	40	WSW	4	b	3
Rochefort ...	30·03	50	46	NW	6	c	*

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

Weather in morning fine over England and also over Germany and the N^rn. parts of France and Russia. Cloudy or dull elsewhere, with rain in several parts of Ireland, Scotland, France and Belgium, as well as at Christiansund, Helsingfors and St. Petersburg; snow falling in Lapland and Finland. Rain occurring later in nearly all parts of W^rn. Europe; lunar halos seen in the S. of England, and also at Belmullet.

Temperature fallen in our Islands,—quickly over England, but risen in most other countries, morning readings highest 53° at Biarritz, 52° at Malta, 51° at Algiers, and 50° at Leghorn; above 45° in the Channel Islands and the W. and N. of France. Lowest (1) 7° at Hermanstadt, 21° at Buda Pesth, and 22° at Vienna; (2) 8° at Archangel, and 26° at Haparanda; lowest in our Islands 35° at Parsonstown, and 38° at Cosford. Rising during day to 45° and upwards in most parts of the United Kingdom, and to between 50° and 54° on our SW. coasts, exceeding 50° also in the W. and S. of France. Frost occurring in Scotland at night, and on the ground over central England.

Wind strong from the W^rn. or NW^rn. in the west and north of our Islands and the west of France, with a gale in places. Moderate from the SW^rn. over the Netherlands and the southeast of England, and strong from the same quarter or from S. over Denmark, the Baltic, Finland and the southern parts of Scandinavia; F. in the north of Scandinavia. Moderate from the S^rn. over Germany and central France; variable over Austria and Italy, NE. over the Spanish Peninsula. Subsequently moderating in our Islands, and backing to the SW^rn. in Ireland.

Barometer highest 32·5 ins. and upwards over Greece, Turkey and the SE. of Austria, 30·1 ins. and upwards in an anticyclone embracing nearly the whole of S^rn. and SE^rn. Europe. Lowest 28·7 ins. and less in a depression off the SW. of Norway and also in a large area over the N. of Scandinavia. Both systems moving NE^wds. later, but new disturbance approaching our W^rn. 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.

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DAILY WEATHER REPORT

for 8 a.m. on Friday, 30th December, 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 ...	29.04	13	N	2	0	29.96	+.47	9	8	- 9	N	2	0	#	0	#	19	7	-
	Hernösand ...	29.10	24	SW	4	b	29.89	+.43	27	26	- 2	NW	4	b	#	b	#	36	23	-
	Stockholm ...	29.27	31	Z	0	b	29.44	+.50	26	25	- 13	NW	2	b	#	b	#	39	26	-
	Wisby	29.39	39	W	8	bc	29.49	+.37	35	34	- 7	SSE	4	0	#	bc	#	42	35	-
	Karlstad ...	29.32	28	N	2	bc	29.48	+.37	22	21	- 12	N	2	bc	#	bc	#	#	#	-
	Bodö	29.02	30	ESE	2	bc	29.40	+.70	30	27	- 4	E	2	0	1	bc	#	34	23	-
	Christiansund ...	29.28	39	N	3	c	29.58	+.57	34	33	0	W	4	S	5	c	#	39	34	0.04
	Skudesnaes ...	29.38	33	Z	0	b	29.48	+.23	32	30	- 3	N	2	b	2	b	#	37	30	#
	Færder (Christiania Fjord)	29.32	36	WNW	3	b	29.45	+.31	31	29	- 9	NNE	4	0	3	b	#	41	31	-
	Skagen (The Scaw)	29.36	36	WSW	1	r	29.38	+.15	38	38	- 4	E	3	0	0	r	#	43	34	0.04
	Fanö	29.29	36	S	3	r	29.16	-.27	34	33	- 6	E	2	rs	8	r	#	41	34	0.98
	Sumburgh Head	29.39	33	NNE	2	b	29.65	+.38	33	32	- 1	N	3	b	3	b	#	36	31	0.01
	Stornoway ...	29.45	38	ESE	3	r	29.75	+.52	30	29	0	NW	2	b	2	qp.b.r	1.8	40	27	0.05
	Wick	29.46	38	NE	2	c	29.72	+.45	29	28	- 2	N	2	b	2	c	#	40	27	0.03
	Nairn	29.44	33	Z	0	c	29.74	+.48	32	31	+ 4	W	1	b	1	c	#	38	25	0.12
	Aberdeen ...	29.37	40	ENE	6	bcq	29.74	+.45	32	32	+ 3	NNW	4	bcq	4	prh.bcq	0.1	40	29	0.05
	Leith	29.31	38	NE	3	r	29.76	+.54	36	33	- 1	W	3	b	#	r	#	46	33	0.02
	Shields	29.18	41	NE	4	r	29.68	+.39	34	33	- 5	NNW	3	c	4	r.s	#	42	33	0.36
	Spurn Head ...	29.01	44	NW	3	0	29.59	+.28	38	37	- 2	NW	6	c	6	c.r	#	45	38	0.46
	York	29.05	40	NE	3	r	29.72	+.48	35	33	- 4	NW	2	b	#	r.b	0.0	41	34	0.36
	Loughborough ...	29.05	45	WSW	1	0	29.70	+.44	35	33	- 5	NNW	2	b	#	0	#	50	35	0.13
British Islands	Ardrossan ...	29.32	38	NE	4	bf	29.79	+.63	35	34	- 4	N	1	bf	1	of.bf	#	45	33	0.01
	Malin Head ...	29.37	42	NNE	4	bc	29.78	+.74	37	36	- 5	S	2	b	2	c.bc	#	43	37	0.05
	Belmullet ...	29.46	? 46	N	5	b	29.85	+.57	42	41	- 5	SSW	2	0	#	m.b	#	47	41	0.10
	Donaghadee ...	29.25	44	ENE	6	0	29.83	+.78	35	34	- 10	W	4	b	2	0	#	45	34	0.09
	Liverpool (Bidston)	29.07	40	SW	1	c	29.78	+.68	38	34	- 3	NNW	2	b	3	rm.c	#	48	37	0.29
	Holyhead ...	29.11	48	NE	4	qm	29.81	+.81	42	40	- 7	NE	3	bc	2	rm.qm	#	49	42	0.06
	Parsonstown ...	29.25	42	W	1	0	29.89	+.90	30	30	- 13	Z	0	b	#	0.r	0.3	48	29	0.01
	Valencia ...	29.35	49	N	6	ogq	29.90	+.90	44	41	- 3	NNW	2	c	5	p.c.qq	0.5	50	43	0.17
	Roche's Point ..	29.22	50	NW	5	c	29.92	+.86	42	40	- 6	NW	3	b	4	c.q	#	51	40	0.01
	Pembroke (St. Ann's Hd.)	29.06	49	NW	4	bc	29.87	+.77	48	46	- 4	NNE	3	b	4	o.bc	0.7	52	40	0.28
	Scilly	29.09	50	WNW	6	qp	29.83	+.62	46	41	- 4	NNW	7	c	6	or.qp	2.5	52	41	0.02
	Prawle Point ...	29.18	48	WSW	4	c	29.77	+.53	40	37	- 11	NNW	4	bc	3	qp.c	#	52	37	0.13
	Jersey (St. Aubin's)	29.20	49	WSW	5	oprh	29.67	+.22	46	43	- 4	NW	6	0	5	c.prh	#	53	44	0.37
	Hurst Castle ...	29.11	47	WSW	1	bc	29.69	+.38	40	33	- 10	NNE	4	bc	3	cm.p.bc	#	51	40	0.06
	Dungeness ...	29.11	49	SW	5	oq	29.56	+.11	41	40	- 6	N	5	c	4	r.oq	#	51	41	0.25
	North Foreland	29.11	47	SW	2	b	29.51	+.12	42	41	- 2	NW	7	c.qr	4	r.b	#	49	35	0.21
	London (Brixton) ...	29.12	47	WSW	2	b	29.67	+.30	39	36	- 7	NW	2	b	#	op.cq	0.0	51	39	0.15
	Oxford	29.13	41	WSW	2	c	29.71	+.45	37	34	- 9	NNW	4	b	#	p.c	#	50	36	0.17
	Cambridge ...	29.07	45	SW	1	0	29.63	+.26	36	34	- 6	NNW	4	b	#	0	0.0	50	34	0.21
	Yarmouth ...	29.05	47	SSW	3	c	29.55	+.14	41	38	- 2	NW	6	cq	6	or.q.c	#	47	39	0.35
Germany & Holland	Cuxhaven ...	29.40	41	S	4	r	29.13	-.42	42	42	+ 3	SW	5	0	#	p	#	43	37	0.59
	Berlin	29.62	35	SSE	3	b	29.40	-.34	40	37	+ 2	S	4	c	#	b	#	41	34	0.08
	Wiesbaden ...	*	*	*	*	*	29.45	-.44	39	38	+ 1	S	2	0	#	*	#	39	37	0.04
	Munich	29.75	30	SE	4	b	29.57	-.45	26	25	- 6	S	3	bc	#	b	#	39	25	-
	The Helder ...	29.11	44	SSW	5	0	29.30	-.26	42	40	- 2	N	5	r	4	0	#	46	37	0.32
Belgium.	Brussels ...	*	*	*	*	*	29.36	-.36	43	43	+ 8	NW	4	r	#	r	#	44	34	0.08
	Cape Gris Nez	?	48	SSW	4	r	?	?	46	41	+ 5	NE	6	0	6	r	#	48	39	1.22
	Paris	29.40	44	SSW	6	0	29.42	-.42	43	43	+ 5	SSW	2	r	#	0	#	46	38	0.12
	Brest	29.22	50	W	6	r	29.73	+.30	48	46	- 3	NW	6	c	6	r	#	54	43	0.51
	Lorient ...	29.28	51	W	6	r	29.73	+.19	47	45	- 5	N	6	r	6	r	#	55	45	0.71
France &	Rochefort ...	29.51	52	WSW	6	0	29.61	-.28	50	49	- 2	NNW	6	0	#	r.0	#	54	46	0.95
	Belfort	29.68	39	W	2	c	29.49	-.52	41	39	+ 5	Z	0	0	#	c	#	50	36	0.08
	Lyons	29.77	42	S	3	m	29.53	-.62	43	40	+ 7	S	2	ov	#	m	#	45	36	0.04
	Nice	29.92	42	ENE	2	b	29.68	-.29	40	39	- 4	E	4	r	3	b	#	52	37	0.08
	Perpignan ...	29.80	43	Z	0	c	29.63	-.55	43	42	- 2	SW	1	r	#	c	#	54	39	0.04
	Biarritz ...	29.70	51	SW	1	r	29.68	-.36	55	51	+ 9	NW	1	r	1	tlr	#	57	46	0.55
Peninsula	Corunna ...																#			
	Lisbon ...	30.23	57	NW	5	0	30.30	-.10	55	49	+ 1	NNW	4	c	#	0	#	57	48	0.16
	Azores (P. Delgada)	30.43	58	WNW	2	bc	30.39	-.01	62	57	+ 3	SW	3	0	3	bc	#	63	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 Friday, 30TH December, 1898

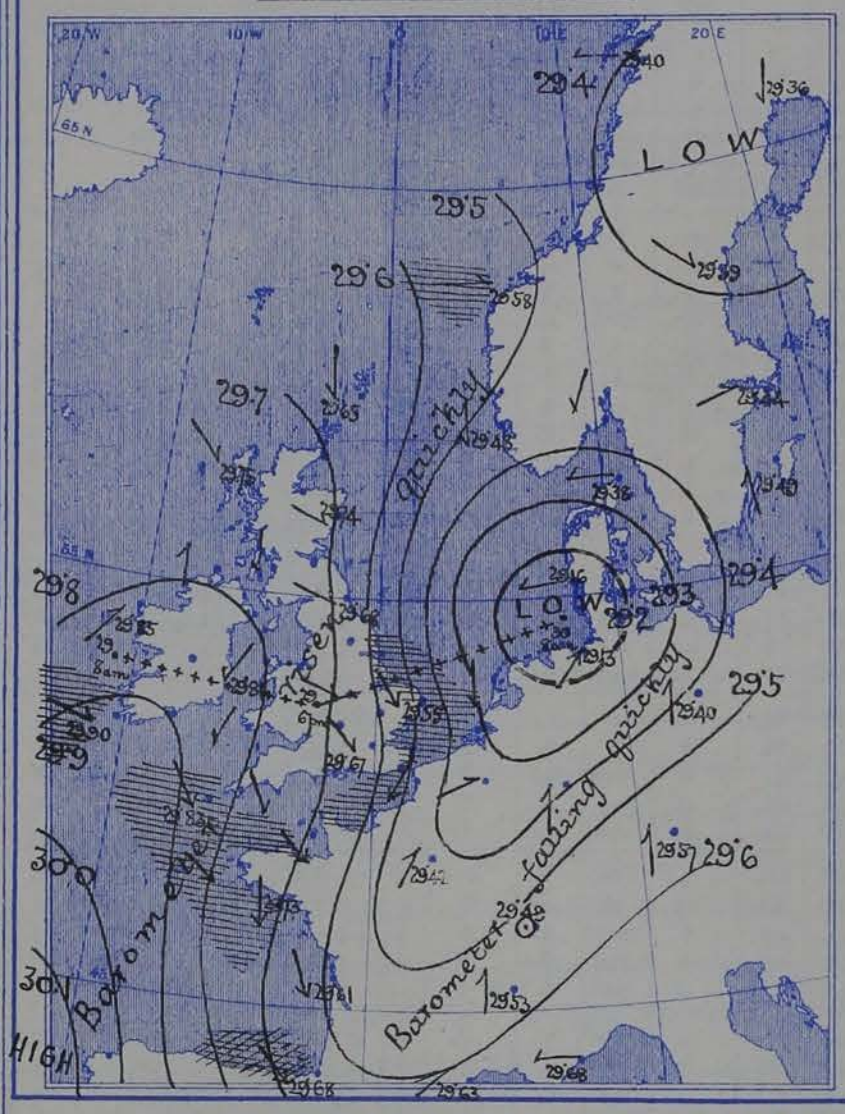
BAROMETER, WIND AND SEA.

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*

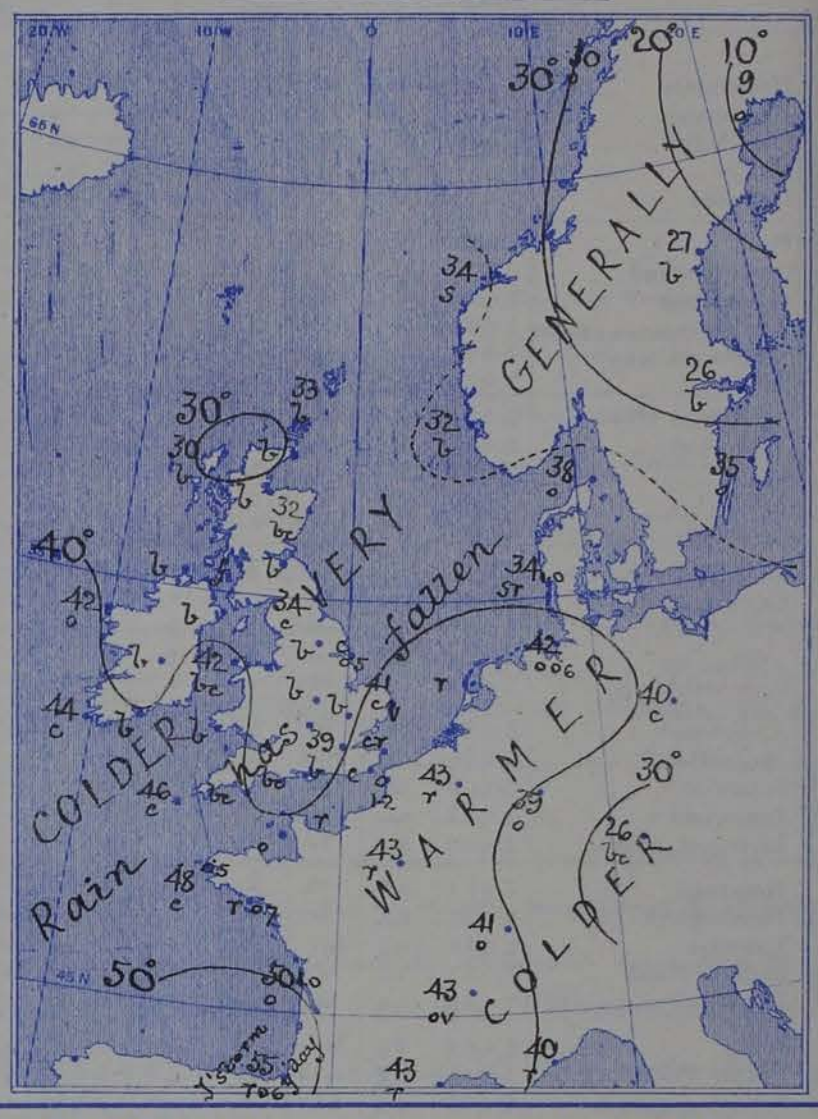


TEMPERATURE & WEATHER.

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 DECEMBER.

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 · 656	39 · 8	38 · 3	42 · 8	35 · 5	53	1890	19	1877	4 · 27	—	—
Stornoway	29 · 688	39 · 6	38 · 7	43 · 3	34 · 4	54	1880	15	1880	5 · 64	25 · 4	13
Wick	29 · 699	38 · 3	37 · 1	42 · 4	33 · 0	55	1889, 94	10	1882	3 · 17	—	—
Nairn	29 · 727	37 · 2	35 · 7	42 · 2	32 · 4	57	1888, 90, 91, 92, 94	10	1882	1 . 94	—	—
Aberdeen	29 · 758	37 · 0	35 · 3	42 · 0	32 · 8	58	1873	6	1882	3 · 11	39 · 9	20
Leith	29 · 797	38 · 7	37 · 2	44 · 1	33 · 7	58	1873, 88	6	1882	1 · 89	—	—
Shields	29 · 836	38 · 4	37 · 0	43 · 1	33 · 9	59	1873	10	1878, 79	2 · 32	—	—
Spurn Head	29 · 870	38 · 9	37 · 8	42 · 6	35 · 4	55*	1888	19*	1891	2 · 05	—	—
York	29 · 886	36 · 6	35 · 6	42 · 5	32 · 4	59	1888, 91	0	1879	2 · 21	26 · 5	12
Loughborough	29 · 922	36 · 4	35 · 4	43 · 0	32 · 3	59*	1888	7*	1890	2 · 24	—	—
Ardrossan	29 · 809	40 · 3	39 · 1	44 · 7	36 · 2	55	1880	15	1879	3 · 66	—	—
Malin Head	29 · 768	41 · 3	39 · 6	45 · 2	38 · 1	—	—	—	—	—	—	—
Belmullet	29 · 822	42 · 8	40 · 9	46 · 9	39 · 0	—	—	—	—	5 · 36	—	—
Donaghadee	29 · 840	40 · 4	39 · 5	45 · 8	36 · 3	56	1885, 88, 94	20	1879	2 · 85	—	—
Holyhead	29 · 876	42 · 8	41 · 2	46 · 5	39 · 2	56	1872, 88	25	1874	3 · 83	—	—
Liverpool	29 · 891	39 · 0	37 · 3	43 · 8	35 · 7	59	1891	13	1878	2 · 62	—	—
Parsonstown	29 · 891	38 · 3	37 · 0	45 · 1	33 · 5	58	1877	8	1878	3 · 09	45 · 0	20
Valencia	29 · 900	45 · 0	42 · 9	49 · 9	40 · 4	57	1884, 88	24	1886	5 · 93	43 · 9	19
Roche's Point	29 · 908	43 · 5	42 · 1	48 · 2	39 · 4	58	1873	25	1882	5 · 16	—	—
Pembroke	29 · 914	43 · 9	42 · 6	47 · 0	40 · 5	55	1876	19	1890	3 · 96	46 · 0	20
Scilly	29 · 950	47 · 4	45 · 5	49 · 8	43 · 6	57	1876	30	1890	4 · 00	—	—
Prawle Point	29 · 970	42 · 8	41 · 4	47 · 3	38 · 5	55*	1881, 88	25*	1885, 87, 90	3 · 77	—	—
Jersey	29 · 993	43 · 5	41 · 7	47 · 7	39 · 7	61	1876	19	1871	3 · 76	62 · 6	25
Hurst Castle	29 · 962	40 · 9	40 · 1	45 · 9	36 · 7	58	1876	19	1890	2 · 77	—	—
Dover	29 · 954	40 · 0	38 · 9	44 · 7	35 · 9	56	1880	12	1890	2 · 79	—	—
LONDON	29 · 956	38 · 0	36 · 8	44 · 3	34 · 0	58	1873, 88, 91	11	1878	2 · 11	11 · 8†	5†
Oxford	29 · 956	37 · 1	36 · 0	43 · 2	33 · 6	58	1888	6	1878	2 · 10	41 · 8	18
Cambridge	29 · 941	36 · 4	35 · 6	43 · 2	31 · 6	59	1878, 88	0	1879	1 · 82	41 2	18
Yarmouth	29 · 915	38 · 1	37 · 1	42 · 2	33 · 8	56	1873	15	1879	2 · 53	—	—

* 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 in an anticyclone lying off the Portuguese coasts.
Lowest, 29·2 in: and less, in a well marked depression with its centre near Holstein.
Gradients slight generally, but rather steep over the southern part of the North Sea
Barometer falling in Denmark, Germany, and the south of France, but rising elsewhere.

TEMPERATURE

Highest, 55° at Biarritz (and Lisbon), 50° at Rochefort, 48° at Pembroke and Brest, 47° at Lorient, and 46° at Scilly and Jersey.
Lowest, (1) 9° at Haparanda and 22° at Karlstad; (2) 26° at Munich; (3) 29° at Nairn, 30° at Stornoway and Parsonstown.
Frost occurred last night over the north of Scotland and Central Ireland, and on the surface of the ground over Central England also.

WIND

Strong from the N. or NW. on the south and east coasts of England and also in the north and west of France; light or moderate from the same quarters in most other parts of our Islands, but S. in the north of Ireland.
S.E. or S.W. over Germany, Belgium, and Central France; E. in Denmark; N.E. in the south of Norway; variable over the northern parts of Scandinavia.

WEATHER

Fine over the United Kingdom and also at many of the Scandinavian stations, but dull in the west of Norway, with snow at Christiansund
Dull elsewhere, with rain in many parts of France and the Netherlands, and sleet at Jan Mayen.
Rain fell yesterday over the whole of Western Europe, the largest amounts being 1·2 in: at Cape Finisterre, 1·0 in: at Jan Mayen and Rochefort, and 0·7 in: at Lorient. A thunderstorm occurred at Biarritz.

SEA

Rough or rather so off the south and east of England as well as at Valencia (Ireland) and on the French coasts generally.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression noticed over Ireland yesterday morning has travelled eastwards and is now passing away over Denmark. The barometer is at present rising in the west, but the shift of wind to the S.W. in the north of Ireland seems to indicate the approach of fresh disturbances.

FORECASTS

For the 24 hours ending at NOON on 31ST DECR 1898

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	NW. winds, backing later to the SW. or S.; fine at first then cloudy with some rain.
1	SCOTLAND EAST	
2	ENGLAND N.E.	
3	ENGLAND EAST	NW. to W. or SW. winds; fine at first, cloudy later, possibly some rain.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	
6	SCOTLAND WEST	Wind shifting to the SW. or S.; fine at first, some rain later.
7	ENGLAND N.W.	
▼ 8	ENGLAND S.W.	Same as Nos 3 to 5.
9	IRELAND NORTH	S. winds, freshening; cloudy, unsettled, some rain.
▼ 10	IRELAND SOUTH	

WARNINGS

The signals have been lowered this morning in districts 3, 5, 7 and 9.
The S. Cone is still flying in districts 8 and 10

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes	29.33	37	35	SW	0	bc	3
Sumburgh Head	29.34	33	29	NNE	1	bc	4
Stornoway	29.31	40	39	ESE	3	b	3
Aberdeen	29.28	35	34	N	3	cp	3
Shields	29.13	41	40	ENE	2	r	2
Ardrossan	29.14	40	40	NE	4	o	2
Malin Head	29.15	42	41	NE	6	c	4
Belmullet	29.16	45	43	ENE	6	o	*
Holyhead	29.00	48	47	NW	4	rm	3

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29.06	49	47	NNW	2	c	5
Scilly	29.10	50	49	WSW	5	ot	5
Jersey	29.23	50	48	SW	5	c	5
Hurst Castle	29.12	51	49	WSW	2	cm	3
Dungeness	29.14	50	49	SSW	1	t	6
North Foreland	29.16	48	48	S	4	t	3
London (Westminster)	29.10	52	50	SW	4	om	*
Yarmouth	29.08	47	46	S	5	ogw	5
Rochefort	29.65	51	48	SW	1	t	*

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 Saturday, 31st December, 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 ...	29.78	3	SW	0	bc	29.89	+.58	6	6	- 3	S	2	bc	*	b	*	23	0	-
	Hernösand ...	29.86	16	SW	0	0	29.98	+.59	15	15	- 12	SW	0	0	*	0	*	30	12	-
	Stockholm ...	29.68	31	N	2	0	29.81	+.57	29	28	+ 3	NNE	6	0	*	0	*	34	25	-
	Wisby	29.54	34	E	4	r	29.64	+.15	36	35	+ 1	E	6	r	*	r	*	37	32	0.16
	Karlstad ...	29.73	27	N	2	0	?29.87	+.39	25	23	+ 3	NNE	4	0	*	0	*	*	*	-
	Bodö	29.68	50	S	2	bc	29.86	+.46	50	29	0	E	2	bc	.2	bc	*	30	27	-
	Christiansund ...	29.84	38	NW	2	c	29.88	+.30	50	28	- 4	ESE	2	c	4	c	*	34	28	0.35
	Skudesnaes ...	29.77	32	SW	0	b	29.84	+.36	33	32	+ 1	E	2	b	1	b	*	34	28	*
	Færder (Christiania Fjord)	29.69	34	NNE	6	b	29.82	+.39	33	30	+ 2	NNE	6	b	3	b	*	34	31	-
	Skagen (The Scaw)	29.62	35	ENE	4	r	29.76	+.38	33	32	- 5	ENE	5	0	1	r	*	39	33	-
	Fanö	29.62	36	N	6	c	29.73	+.57	32	31	- 2	N	4	c	*	c	*	36	32	0.47
British Islands.	Sumburgh Head	29.82	32	N	1	b	29.56	-.09	40	35	+ 7	SSE	4	0	5	b	*	40	30	-
	Stornoway ...	29.74	41	SSW	4	b	29.15	-.60	43	42	+ 13	SE	6	0	6	bv.b	2.6	43	28	0.03
	Wick	29.83	38	N	2	bc	29.45	-.27	40	37	+ 11	S	8	bcu	6	bcq	*	40	24	-
	Nairn	29.85	29	SW	1	b	29.38	-.36	38	34	+ 6	SSE	2	0	1	b	*	38	21	-
	Aberdeen ...	29.88	30	WSW	2	b	29.56	-.18	39	34	+ 7	SSE	7	cq	5	sp.bc.b	1.9	39	24	0.02
	Leith	29.89	34	SW	0	b	29.46	-.30	35	33	- 1	ESE	2	0	*	bc	*	40	28	-
	Shields	29.91	32	WNW	2	b	29.65	-.03	35	34	+ 1	S	3	c	3	b	*	39	28	-
	Spurn Head ...	29.88	37	NW	5	b	29.70	+.11	36	35	- 2	SSE	5	0	5	r sq.b	*	39	31	0.01
	York	29.91	33	NNW	1	b	29.66	-.06	35	32	0	E	2	0	*	b	4.7	42	27	-
	Loughborough ..	29.96	31	WNW	1	b	29.69	-.01	35	33	0	SW	5	0	*	bc.bq	*	41	25	-
	Ardrossan ...	29.88	35	NNE	1	bf	29.27	-.52	40	40	+ 5	E	7	rm	5	bf	*	40	31	0.01
	Malin Head ...	29.75	37	SSE	3	b	29.03	-.73	46	46	+ 9	S	5	0	2	b	*	46	37	0.04
	Belmullet ...	29.73	45	S	4	0	29.13	-.72	46	43	+ 4	W	8	0	*	b.0	*	49	37	0.19
	Donaghadee ...	29.86	36	SE	2	b	29.24	-.59	47	47	+ 12	S	4	r	1	b	*	47	35	0.24
	Liverpool (Bidston)	29.95	36	N	1	b	29.48	-.30	38	36	0	ESE	4	r	3	b	*	41	31	0.02
	Holyhead ...	29.90	41	SW	1	b	29.34	-.47	46	45	+ 4	S	8	rq	6	bc.b	*	46	40	0.03
	Parsonstown ...	29.85	42	SE	1	0	29.29	-.60	43	42	+ 13	W	1	or	*	bc.o	2.5	50	30	0.08
	Valencia ...	29.77	49	S	2	ogm	29.33	-.57	42	40	- 2	SW	4	bc	6	c.ogm	1.4	52	41	0.74
	Roche's Point ..	29.86	50	SW	5	br	29.38	-.54	45	40	+ 3	WSW	5	c	5	o,rq	*	51	42	0.50
	Pembroke (St. Ann's Hd.)	29.95	45	WSW	3	b	29.42	-.45	51	49	+ 3	WSW	7	rq	5	b	6.0	51	40	0.37
	Scilly	29.98	47	SSW	2	c	29.51	-.32	50	48	+ 4	WSW	6	oq	5	b, c	5.4	50	41	0.14
	Prawle Point ...	29.99	38	NW	3	b	?29.66	-.11	49	48	+ 9	SW	6	rq	4	c	*	50	36	0.04
	Jersey (St. Aubin's)	30.03	47	NW	3	b	29.78	+.11	45	43	- 1	SE	6	omr	5	b	*	49	43	0.02
	Hurst Castle ...	30.00	36	NW	1	bm	29.70	+.01	45	43	+ 5	SSW	5	r	4	b.bm	*	45	31	0.05
	Dungeness ...	29.92	35	NNW	3	bc	29.83	+.27	43	41	+ 2	SSW	3	0	3	bc	*	45	27	-
	North Foreland	29.88	39	NW	4	bc	29.87	+.36	36	33	- 6	W	2	c	2	c.bc	*	43	30	-
	London (Everton) ...	29.98	36	NNW	3	b	29.79	+.12	38	36	- 1	S	2	0	*	bm.b	1.5	41	27	-
	Oxford	30.01	33	NW	3	bc	29.69	-.02	38	36	+ 1	SSE	3	or	*	bc	*	40	31	-
	Cambridge ...	29.96	33	NW	1	b	29.78	+.15	33	32	- 3	S	2	0	*	b	4.8	40	25	-
	Yarmouth ...	29.83	37	NW	3	c	29.82	+.27	34	32	- 7	S	3	bcm	4	c	*	43	27	0.02
Germany & Holland.	Cuxhaven ...	29.45	40	NW	5	bc	29.72	+.59	38	36	- 4	NNW	4	bc	*	bc	*	42	37	0.04
	Berlin	29.49	43	W	3	0	29.65	+.25	37	34	- 3	NNW	5	0	*	0	*	43	32	-
	Wiesbaden ...	*	*	*	*	*	29.97	+.52	34	32	- 5	SW	2	b	*	*	*	43	32	-
	Munich	29.68	33	SW	2	c	29.97	+.40	32	32	+ 6	NW	4	8	*	c	*	36	26	0.12
	The Helder ...	29.73	43	NNW	3	bc	?	?	42	39	0	NW	1	bc	2	bc	*	45	40	0.04
Belgium.	Brussels ...	*	*	*	*	*	29.96	+.60	32	32	- 11	SSW	2	f	*	b	*	43	30	0.04
	Cape Gris Nez ...	?	41	NE	6	c	?	?	38	34	- 8	S	3	m	3	c	*	46	34	-
	Paris	29.92	39	NNW	2	0	30.04	+.62	28	28	- 15	SSW	1	m	*	0	*	44	28	0.16
	Brest	30.06	48	NNW	3	c	29.72	-.01	50	47	+ 2	SW	5	r	5	c	*	52	43	0.08
	Lorient	30.08	46	N	4	c	29.80	+.07	51	49	+ 4	SW	6	r	6	c	*	55	41	-
France &	Rochefort ...	30.09	46	N	5	b	30.03	+.42	41	39	- 9	S	4	c	*	c.b	*	52	36	-
	Belfort	29.68	39	SW	2	r	30.06	+.57	28	27	- 13	W	3	m	*	r	*	43	28	0.12
	Lyons	29.75	41	NNW	2	r	30.11	+.58	33	31	- 10	NNW	2	b	*	r	*	45	32	0.16
	Nice	29.62	42	E	2	r	29.78	+.10	40	35	0	E	3	b	2	r	*	45	37	0.20
	Perpignan ...	29.80	48	NW	5	c	30.06	+.43	41	37	- 2	NW	3	b	*	c	*	55	40	0.04
	Biarritz ...	30.04	48	NW	8	r	30.06	+.38	43	41	- 12	S	3	0	6	r	*	57	37	0.35
Peninsula.	Corunna ...																*			
	Lisbon	30.33	53	NNW	3	bc	30.31	+.01	53	51	- 2	E	0	0	*	bc	*	59	52	-
	Azores (P. Delgada)	30.37	61	W	3	0	30.35	-.04	58	55	- 4	W	3	bc	3	0	*	64	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 6.0 hrs;

WEATHER CHARTS

FOR Saturday, 31st December, 1898

BAROMETER, WIND AND SEA.

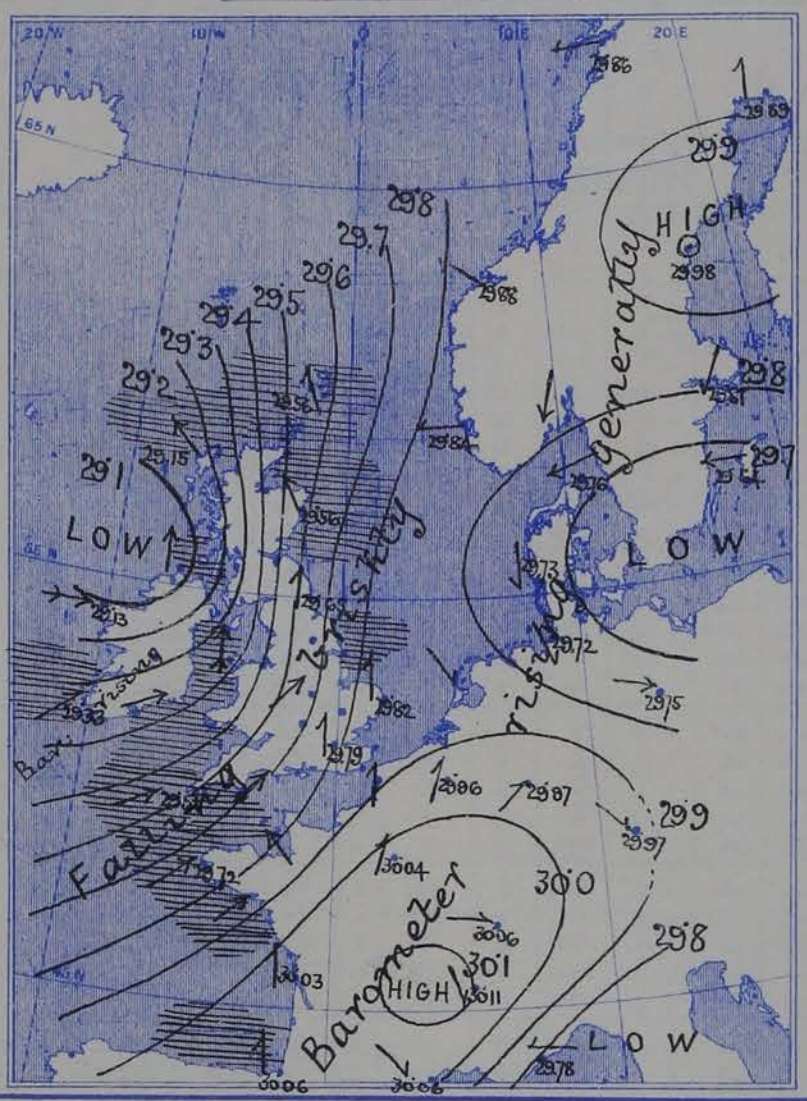
BAROMETER—Isobars are drawn for each tenth of an inch.

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* ▩

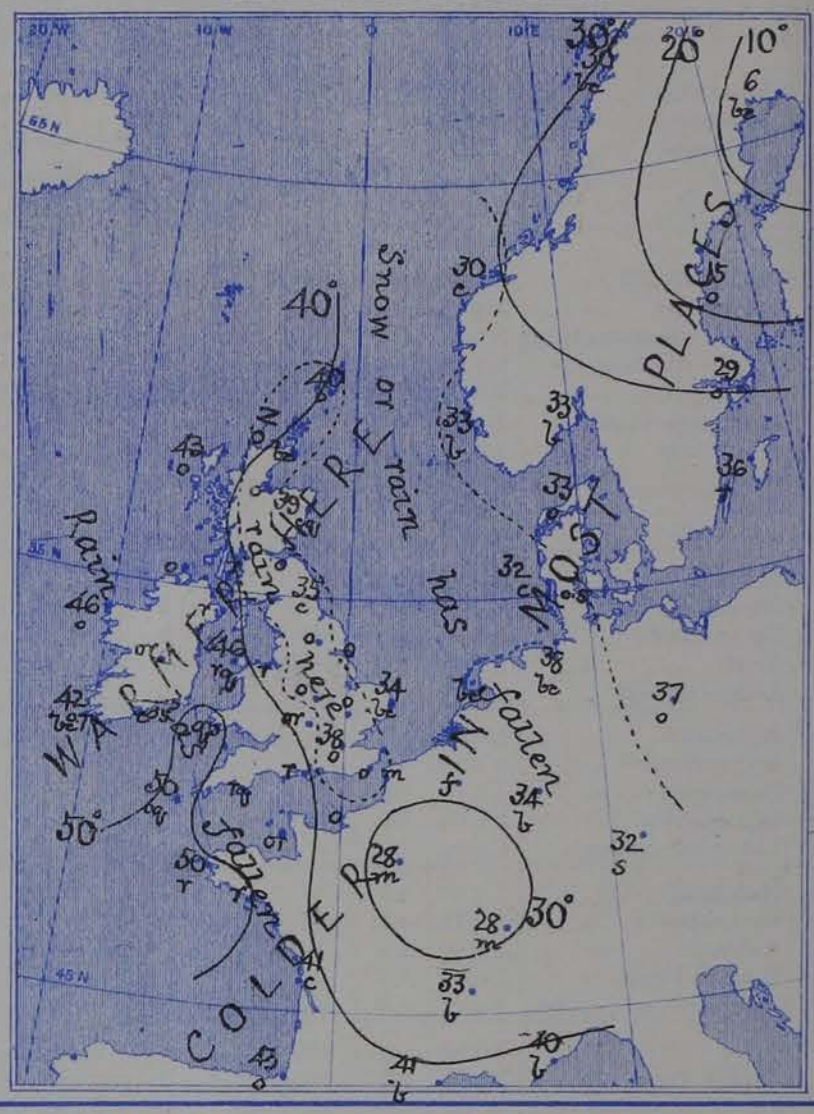


TEMPERATURE & WEATHER.

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 DECEMBER.

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 · 656	39 · 8	38 · 3	42 · 8	35 · 5	53	1890	19	1877	4 · 27	—	—
Stornoway	29 · 688	39 · 6	38 · 7	43 · 3	34 · 4	54	1880	15	1880	5 · 64	25 · 4	13
Wick	29 · 699	38 · 3	37 · 1	42 · 4	33 · 0	55	1889, 94	10	1882	3 · 17	—	—
Nairn	29 727	37 · 2	35 · 7	42 · 2	32 · 4	57	1888, 90, 91, 92, 94	10	1882	1 . 94	—	—
Aberdeen	29 · 758	37 · 0	35 · 3	42 · 0	32 · 8	58	1873	6	1882	3 · 11	39 · 9	20
Leith	29 · 797	38 · 7	37 · 2	44 · 1	33 · 7	58	1873, 88	6	1882	1 · 89	—	—
Shields	29 · 836	38 · 4	37 · 0	43 · 1	33 · 9	59	1873	10	1878, 79	2 · 32	—	—
Spurn Head	29 · 870	38 · 9	37 · 8	42 · 6	35 · 4	55*	1888	19*	1891	2 · 05	—	—
York	29 · 886	36 · 6	35 · 6	42 · 5	32 · 4	59	1888, 91	0	1879	2 · 21	26 · 5	12
Loughborough	29 · 922	36 · 4	35 · 4	43 · 0	32 · 3	59*	1888	7*	1890	2 · 24	—	—
Ardrossan	29 · 809	40 · 3	39 · 1	44 · 7	36 · 2	55	1880	15	1879	3 · 66	—	—
Malin Head	29 · 768	41 · 3	39 · 6	45 · 2	38 · 1	—	—	—	—	—	—	—
Belmullet	29 · 822	42 8	40 · 9	46 · 9	39 · 0	—	—	—	—	5 · 36	—	—
Donaghadee	29 · 840	40 · 4	39 · 5	45 · 8	36 · 3	56	1885, 88, 94	20	1879	2 · 85	—	—
Holyhead	29 · 876	42 · 8	41 · 2	46 · 5	39 · 2	56	1872, 88	25	1874	3 · 83	—	—
Liverpool	29 · 891	39 · 0	37 · 3	43 · 8	35 · 7	59	1891	13	1878	2 · 62	—	—
Parsonstown	29 · 891	38 · 3	37 · 0	45 · 1	33 · 5	58	1877	8	1878	3 · 09	45 · 0	20
Valencia	29 · 900	45 · 0	42 · 9	49 · 9	40 · 4	57	1884, 88	24	1886	5 · 93	43 · 9	19
Roche's Point	29 · 908	43 · 5	42 · 1	48 · 2	39 · 4	58	1873	25	1882	5 · 16	—	—
Pembroke	29 · 914	43 · 9	42 · 6	47 · 0	40 · 5	55	1876	19	1890	3 · 96	46 · 0	20
Scilly	29 · 950	47 · 4	45 · 5	49 · 8	43 · 6	57	1876	30	1890	4 · 00	—	—
Prawle Point	29 · 970	42 · 8	41 · 4	47 · 3	38 · 5	55*	1881, 88	25*	1885, 87, 90	3 · 77	—	—
Jersey	29 · 993	43 · 5	41 · 7	47 · 7	39 · 7	61	1876	19	1871	3 · 76	62 · 6	25
Hurst Castle	29 · 962	40 · 9	40 · 1	45 · 9	36 · 7	58	1876	19	1890	2 · 77	—	—
Dover	29 · 954	40 · 0	38 · 9	44 · 7	35 · 9	56	1880	12	1890	2 · 79	—	—
LONDON	29 · 956	38 · 0	36 · 8	44 · 3	34 · 0	58	1873, 88, 91	11	1878	2 · 11	11 · 8†	5†
Oxford	29 · 956	37 · 1	36 · 0	43 · 2	33 · 6	58	1888	6	1878	2 · 10	41 · 8	18
Cambridge	29 · 941	36 · 4	35 · 6	43 · 2	31 · 6	59	1878, 88	0	1879	1 · 82	41 · 2	18
Yarmouth	29 · 915	38 · 1	37 · 1	42 · 2	33 · 8	56	1873	15	1879	2 · 53	—	—

* 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, 30·31 in: at Lisbon; 30·0 in: and upwards in an anticyclone extending from the Spanish Peninsula over the greater part of France
Lowest, 29 in: and less, in a rather deep depression lying off our extreme northwest coasts; 29·7 in: and less, in another disturbance over North Germany, the Baltic and the south of Sweden.
Gradients steep or rather so over Great Britain, but moderate or slight elsewhere.
Barometer falling briskly over Great Britain, but rising again in Ireland; rising at most of the Continental stations.

TEMPERATURE

Highest, 53° at Lisbon, 51° at Pembroke and Falmouth, 50° at Scilly and Brest, 49° at Prawle Point, and 47° at Donaghadee.
Lowest (1) 6° at Haparanda and 15° at Hernösand; (2) 28° at Paris and Belfort, and 32° at Brussels and Munich; (3) 33° at Cambridge.
Sharp frost occurred last night over Great Britain, the lowest temperatures reported being:— In the screen 21° at Nairn, 24° at Wick and Aberdeen and 25° at Loughborough and Cambridge; (2) On the grass 19° at Loughborough, 20° in London, and 22° at Oxford.

WIND

Fresh to strong from the SW.ly over the southern parts of our Islands and the north of France: strong to a gale from the S.ly or SE.ly on our northern coasts.
Strong from the E.ly or NE.ly in the south of Scandinavia; light to fresh from the NW.ly in Germany and the south of France.

WEATHER

Dull in our Islands, with rain at many of the English and Irish stations, as well as in the northwest of France.
Fine in the Netherlands and the Central and southern parts of France, as well as in the north of Scandinavia, cloudy in Germany, Denmark and the south of Scandinavia, with rain at Wisby and snow at Memel.
Since yesterday morning rain has fallen at most of our western and southwestern stations,—rather heavily in the south of Ireland, and showers of snow or sleet on some parts of our east coasts. A lunar halo was seen at Stornoway.

SEA

Rough or rather so on nearly all coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

In the course of the past night a new depression of considerable depth has appeared off our extreme northwest coasts. The disturbance seems to be spreading eastwards and gales or very strong winds are probable on nearly all our coasts, with squally rainy weather.

FORECASTS

For the 24 hours ending at NOON on 1st Jany 1898

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
▼ 0 SCOTLAND NORTH	S.ly and SE.ly gales; squally, rain at times.	▼ 6 SCOTLAND WEST	SW.ly to W.ly gales and strong winds; squally, showery.
▼ 1 SCOTLAND EAST		▼ 7 ENGLAND N.W.	
▼ 2 ENGLAND N.E.	S.ly winds, increasing to a gale; squally, rainy.	▼ 8 ENGLAND S.W.	
▼ 3 ENGLAND EAST		▼ 9 IRELAND NORTH	
4 MIDLAND COUNTIES	S.ly to SW.ly or W.ly gales and strong winds; squally and rainy at first, some improvement later.	▼ 10 IRELAND SOUTH	
▼ 5 ENGLAND SOUTH		WARNINGS	At 7·10 pm yesterday to districts 0, 1, 5, 6, 7, 9 & 10 and at 9·50 am today to districts 2 and 3. Hoist South Cone. At 10·15 am to district 8 "Keep up 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 ...	29.63	33	31	NNE	4	b	2
Sumburgh Head	29.76	35	32	N	2	b	3
Stornoway	29.78	39	38	E	0	bv	0
Aberdeen	29.83	34	32	NNW	2	bc	3
Shields	29.84	38	35	NW	3	b	4
Ardrossan	29.85	38	37	E	0	bf	0
Malin Head ...	29.79	42	41	S	3	b	2
Belmullet	29.83	46	44	S	1	b	*
Holyhead	29.90	45	43	NW	1	bc	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29.87	48	47	S	1	c	4
Scilly	29.97	48	43	NW	3	c	5
Jersey	29.92	46	42	NNW	4	bc	4
Hurst Castle ...	29.89	42	39	N	4	b	2
Dungeness ...	29.78	41	40	NNW	5	b	4
North Foreland	29.79	40	39	NW	1	c	4
London (Westminster)	29.84	41	37	NNW	5	bc	*
Yarmouth	29.73	43	39	NNW	4	c	5
Rochefort ...	29.73	48	46	NNW	6	c	*

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

Weather in morning fine over the United Kingdom, as well as at many of the Scandinavian stations. Cloudy or dull in most other parts of Europe, with rain over France and the Netherlands, North Germany, and Denmark, sleet at Vardö and snow at Turin. Rain setting in later in the west and southwest of our Islands, but weather improving considerably in France and the Netherlands.

Temperature fallen in most countries, but risen in France and Germany. Morning readings highest 62° at Nemours and Oran, 58° at Algiers, and 55° at Biarritz, Lisbon and Malta, above 45° on some parts of our own southwest coasts. Lowest (1) 9° at Haparanda, 11° at Uleaborg, and 21° at Archangel; (2) 14° at Hermanstadt and 23° at Charkov; lowest in our Islands 29° at Wick. Daily maxima below 40° at several of our own northern and eastern stations, but thermometer exceeding 50° on our extreme southwest coasts, as well as in the west and south of France, and reaching 59° at Lisbon. Sharp frost occurring over Great Britain at night; thermometer on grass falling to 19° at Loughborough.

Wind strong from the NW. or N. on the south and east coasts of England and also in the west and north of France; moderate from the same quarters on our own eastern and northern coasts generally, but S. in the north of Ireland. Light to fresh from the S. or SW. over Central France & Germany, W. or SW. over Russia; N. in the south of Scandinavia, E. in Denmark; variable in Austria and Italy. Subsequently backing to the S. on all our eastern and northern coasts.

Barometer highest 30·3 in. and upwards in an anticyclone lying off the Portuguese coast; 30·1 in. and upwards in another system lying over southeastern Europe generally. Lowest 29·2 in. and less in a well marked depression with its centre over Holstein, and also in a shallower disturbance over the extreme north of Russia. Both depressions moving eastwards later, but new one beginning to approach our Islands from the Atlantic.

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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EPORTS FOR DECEMBER 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	Scilly	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	?48	-
"	Prawle Point	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	40	-
-	Cambridge	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33	-
2	Hick	-	-	?	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Scilly	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	?49	-
-	Prawle Point	30·09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
"	Cambridge	-	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	Valencia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1·0	-	-	-
"	Scilly	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	?48	-
"	Hurst Castle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52	-
"	Dungeness	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52	-
7	Parsonstown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52	-	-
8	Stornoway Ha	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	-
"	Belmullet	-	-	-	-	-	-	-	-	-	-	SSW	-	-	-	-	-	-	-	-
10	Nairn	-	-	-	-	-	-	-	-	-	-	SW	-	-	-	-	-	-	-	-
"	Belmullet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0·06
11	Parsonstown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0·02
12	Stornoway Ha	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0·83
"	Pembroke	-	-	-	-	-	-	-	-	-	-	SSW	-	-	-	-	-	-	-	-
13	Stornoway	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52	-	-
"	York	30·07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	Leith	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52	-	-
"	York	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0·0	-	-	-
15	Belmullet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52	-	-
"	Pembroke	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53	-	-
"	Jersey	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0·13
16	Leith	-	41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
"	Scilly	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0·02
"	Prawle Point	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	57	-	-
18	Aberdeen	-	-	-	-	-	-	-	-	40	-	-	-	-	-	-	-	-	-	-
19	Pembroke	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54	-	-
20	Aberdeen	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0·05
"	Prawle Point	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34	-
23	Scilly	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0·01
24	Hurst Castle	-	-	-	-	-	30·37	-·05	-	-	-	-	-	-	-	-	-	-	-	-
27	Belmullet	-	-	-	-	-	28·70	-1·04	-	-	-	-	-	-	-	-	-	-	-	-
-	Roche's Point	-	-	-	-	-	29·23	-·74	-	-	-	-	-	-	-	-	-	-	-	-
-	Pembroke	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0·7	-	-	-
28	Haparanda	-	-	-	-	-	28·66	-	26	26	-	-	-	-	-	-	-	-	-	-
-	Spurn Head	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40	-
-	Malin Head	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0·85
-	Prawle Point	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53	-	-
29	Stornoway	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	42	-	-
"	Parsonstown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0·10
30	Aldrossan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40	-	-
"	Holyhead	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40	-
31	Belmullet	-	-	-	-	-	29·18	-·67	-	-	-	-	-	-	-	-	-	-	-	-
-	Parsonstown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29	-
"	Roche's Point	-	-	-	-	-	-	-	-	44	-	-	-	-	-	-	-	-	-	-

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.	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.
1	Jersey	29.98	50	W	3	0	30.10	+.18	53	51	+14	W	3	0 qp	3	0	–	53	39	0.3
"	Friesbaden	–	–	–	–	–	30.15	+.34	34	–	–7	NW	1		0	0	–	43	28	–
"	Jersey 2pm	–	–	–	–	–	30.11	–	54	52	–	W	3	c	3	–	–	–	–	–
2	Jersey	30.11	53	WSW	3	0	30.03	–.07	53	51	0	SW	5	0	3	0	–	56	50	0.1
"	Corunna	30.40	55	NW	4	bc	30.40	–	50	48	–	WSW	3		5	bc	–	55	45	–
"	Lisbon	30.42	50	NNE	4	b	30.44	+.06	50	46	0	NNW	–		–	bc	–	55	45	–
"	Azores (P. Delgada)	30.34	61	SSE	8	0	30.23	–.18	63	60	+7	S	4		5	0	–	64	56	0.0
"	Jersey 2pm	–	–	–	–	–	29.97	–	55	52	–	WSW	5		4	–	–	–	–	–
3	Haparanda	29.10	3	E	0	b	29.16	+.29	23	–	+4	N	2		–	b	–	?	?	–
"	Jersey	29.95	54	SW	6	r	30.05	+.02	55	52	+2	S	5		4	r	–	55	52	0.1
"	Jersey 2pm	–	–	–	–	–	30.07	–	56	53	–	SW	4		3	–	–	–	–	–
4	Jersey	30.05	54	SW	3	c	30.10	+.05	56	55	+1	SW	4		3	–	–	56	53	–
"	Friesbaden	–	–	–	–	–	30.24	+.25	50	–	+1	SE	1		–	–	–	52	48	–
"	Jersey 2pm	–	–	–	–	–	30.11	–	58	55	–	SSW	4	c	3	–	–	–	–	–
5	Jersey	30.14	56	SSW	4	0	30.15	+.05	54	52	–2	SSE	3	bc	3	0	–	59	52	–
"	Corunna	30.19	60	S	3	0	30.20	–	55	52	–	S	1	bc	3	0	–	61	48	–
"	Jersey 2pm	–	–	–	–	–	30.17	–	56	54	–	SSE	5	q	4	–	–	–	–	–
6	Jersey	30.15	55	S	3	c	30.16	+.01	54	53	0	SSE	4	bc	3	c	–	58	52	–
"	Corunna	30.21	58	S	3	bc	30.26	+.06	50	47	–5	S	1	b	3	bc	–	61	43	–
"	Jersey 2pm	–	–	–	–	–	30.11	–	57	55	–	S	4	0	4	–	–	–	–	–
7	Jersey	30.09	57	SSW	5	0	29.82	–.34	55	52	+1	SSW	6	0	5	0	–	58	52	0.0
"	Corunna	30.24	60	SSW	3	b	30.22	–.04	54	49	+4	S	3	c	3	b	–	61	46	–
"	Jersey 2pm	–	–	–	–	–	29.88	–	52	49	–	W	6	bcq	5	–	–	–	–	–
8	Jersey	29.94	50	NNW	6	c	30.14	+.32	49	46	–6	WNW	4	c	3	c	–	55	46	0.5
"	Nice	30.15	51	E	1	b	29.97	–.22	50	–	–1	E	1	0	1	b	–	63	46	–
"	Corunna	30.18	59	SSW	2	c	30.28	+.06	51	49	–3	NW	1	fc	6	c	–	61	46	0.21
"	Jersey 2pm	–	–	–	–	–	30.17	–	52	49	–	W	4		3	–	–	–	–	–
9	Jersey	30.17	50	W	2	c	29.88	–.26	54	52	+5	W	4	c	3	–	–	54	47	0.71
"	Corunna	30.31	57	NW	2	bc	30.41	+.13	56	53	+5	SW	4	c	3	–	–	59	45	–
"	Jersey 2pm	–	–	–	–	–	30.03	–	53	50	–	W	5		3	–	–	–	–	–
10	Jersey	30.14	53	WNW	5	b	30.40	+.32	54	52	0	SW	5		3	–	–	56	51	0.2
"	The Helder	29.84	49	WNW	5	b	30.07	+.36	49	?	–	SW	5		3	–	–	50	43	–
"	Corunna	30.47	58	W	1	b	30.58	+.17	48	46	–8	WSW	4		3	–	–	?	?	?
"	Lisbon	30.49	53	NNE	3	–	30.52	+.07	45	43	–6	NE	1		1	–	–	57	45	–
"	Jersey 2pm	–	–	–	–	–	30.45	–	56	51	–	W	4		3	–	–	–	–	–
11	Jersey	30.47	56	WSW	4	–	30.62	+.22	54	53	0	W	5		3	–	–	56	53	0.0
"	Friesbaden	–	–	–	–	–	30.53	+.18	49	–	+8	SW	3		3	–	–	50	41	–
"	Jersey 2pm	–	–	–	–	–	30.63	–	54	53	–	SW	3		3	–	–	–	–	–
12	Jersey	30.60	53	SSE	2	–	30.46	–.16	50	49	–4	S	3		3	–	–	55	48	–
"	Helder	30.47	51	WSW	2	–	30.36	+.02	51	–	0	WSW	3		3	–	–	54	50	–
"	Corunna	30.55	58	SSW	1	–	30.53	–	50	45	–	S	1		3	–	–	59	41	–
"	Jersey 2pm	–	–	–	–	–	30.42	–	53	51	–	WSW	4		3	–	–	–	–	–
13	Jersey	30.38	54	WSW	4	–	30.35	–.11	53	52	+3	W	3		3	–	–	55	48	0.17
"	Corunna	30.59	59	S	1	–	30.59	+.06	52	50	+2	S	3		?	–	–	?	?	–
"	Jersey 2pm	–	–	–	–	–	30.36	–	35	34	–	WNW	3		3	–	–	–	–	–
14	Haparanda	29.97	1	NNE	4	–	30.05	+.42	–18	–20	–27	N	2		–	10	–	30	?	0.1
"	Hernösand	29.82	12	N	6	–	29.90	+.50	12	10	–18	N	2		–	–	–	30	10	–
"	Stockholm	29.72	28	N	4	–	29.82	+.59	23	22	–11	NE	2		–	–	–	45	?	–
"	Visby	29.70	34	N	2	–	29.81	+.59	32	32	–5	N	2		–	–	–	39	32	–
"	Karlstad	29.85	32	W	2	–	29.77	+.22	29	28	–5	S	2		–	–	–	–	–	–
"	Jersey	30.41	51	WNW	2	–	30.44	+.09	47	45	–6	NW	2		–	–	–	55	45	0.01
"	Corunna	30.55	57	S	1	–	30.55	–.04	52	50	0	N	2		–	–	–	59	46	0.02
15	Corunna	30.53	54	N	3	–	30.48	–.07	46	45	–6	NNE	2		–	–	–	55	39	–
16	Corunna	30.46	54	NNE	8	–	30.48	.00	52	51	+6	NNE	2		–	–	–	57	43	0.12
"	Azores (P. Delgada)	30.51	59	ENE	3	–	30.46	–.06	59	54	0	ENE	2		–	–	–	64	57	–
17	Hernösand	29.78	–4	E	6	–	29.89	–.65	–7	–	+2	N	2		–	3	–	–9	–9	0.12
20	The Helder	29.97	45	WNW	4	–	30.16	+.23	43	–	–3	WNW	3		–	46	–	50	41	–
"	Brussels	–	–	–	–	–	30.24	+.20	35	–	–15	W	3		–	50	–	33	33	0.01
"	Belfort	30.18	39	W	3	–	30.21	–.02	34	–	–2	W	3		–	39	–	33	33	0.16
21	Corunna	30.31	57	NE	3	–	30.30	–	46	41	–	E	1		–	57	–	37	–	–
22	Corunna	30.25	55	E	1	–	30.21	–.09	41	36	–5	E	1		–	55	–	34	–	–
24	Corunna	30.28	55	E	1	–	30.29	–	50	45	–	SSE	1		–	57	–	37	–	–
25	Wiesbaden	–	–	–	–	–	30.62	+.02	25	–	–1	SE	1		–	32	–	25	–	–
26	Wiesbaden	–	–	–	–	–	30.50	–.12	24	–	–1	SE	1		–	32	–	23	–	–
"	Corunna	30.29	57	SE	5	–	30.38	–	52	46	–5	SW	6		–	45	–	39	–	0.12
27	Cape Gris Nez	?	46	SW	5	–	?	?	49	–	+5	S	4		–	53	–	37	–	–
"	Corunna	30.34	59	SE	6	–	30.20	–.13	50	44	–2	NW	2		–	53	–	37	–	–
28	Corunna	30.20	55	S	6	–	30.25	+.05	52	45	+2	NW	3		–	57	–	41	–	0.35
30	Corunna	29.89	52	W	6	–	30.17	–	55	50	–	NW	2		–	57	–	46	–	0.83
31	Corunna	30.24	55	NW	3	–	30.07	–.10	54	51	–1	S	5		–	55	–	45	–	–

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