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METEOROLOGICAL OFFICE.

DAILY WEATHER REPORTS

1ST JULY TO 31ST DECEMBER, 1899.

DAILY WEATHER REPORT.

July to December 1899.

E. Wellard & Grahams Ltd Litho London

DAILY WEATHER REPORT

for 8 a.m. on Friday, 1st 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	29.67	21	NW	8	b	29.67	+.38	10	9	−10	2	0	c	•	b	•	27	?	0.04
	Hernösand	29.88	23	L	0	0	29.54	−.18	32	31	−1	S	4	S	•	0	•	33	21	0.08
	Stockholm	29.91	36	L	0	0	29.63	−.18	42	42	+4	SSW	2	0	•	0	•	42	34	0.04
	Wisby	29.88	43	W	4	0	29.78	−.08	44	42	+1	W	6	0	•	0	•	45	36	–
	Karlstad	29.82	41	SSW	2	b	29.60	−.26	46	43	+1	SW	4	0	•	b	•	•	•	–
	Bodö	29.81	25	E	2	b	29.35	−.25	26	24	−1	E	6	0	2	b	•	34	21	–
	Christiansund ...	29.82	41	SW	4	r	29.33	−.59	44	40	+1	WSW	4	0	5	r	•	45	36	0.98
	Skudesnaes ...	29.89	49	SW	4	r	29.57	−.48	49	48	−1	WSW	6	r	4	0,r	•	50	41	•
	Færder (X'iania Fjord)	29.89	48	W	6	0	29.60	−.30	47	45	−1	SW	6	0	4	0	•	48	46	–
	The Scaw (Skagen)	29.96	44	WNW	5	b	29.74	−.27	46	45	−4	SW	5	0	1	b	•	50	45	–
	Fanö	30.14	47	W	4	0	29.94	−.29	48	46	+1	W	6	c	•	0	•	48	46	–
British Islands	Sumburgh Head ...	29.57	50	SW	4	r	29.43	−.45	46	44	−3	W	4	0	6	r	•	51	43	0.28
	Stornoway	29.63	51	WSW	6	r	29.69	−.14	45	43	−6	WNW	4	0	4	r	0.0	52	40	0.70
	Wick	29.71	46	SW	4	c	29.62	−.31	43	42	−6	NW	3	c	2	c	•	53	40	0.05
	Nairn	29.74	52	W	3	c	29.70	−.28	44	42	−6	W	1	bc	1	c	•	54	42	–
	Aberdeen	29.87	49	SW	5	ogq	29.74	−.33	42	39	−3	SW	2	c	3	cg.q.oq.r	0.0	50	41	0.03
	Leith	29.95	50	WSW	3	0	29.81	−.33	46	43	−3	WSW	3	cm	•	0	•	53	45	0.04
	Shields	30.04	47	S	2	c	29.82	−.42	53	51	+1	SW	2	p	2	f.bcm	•	53	44	–
	Spurn Head ...	30.18	44	SSW	3	0	29.97	−.36	49	45	+2	SSW	4	bc	3	0.b	•	51	43	–
	Loughborough ...	30.23	45	SW	1	0	30.02	−.37	48	46	+10	SW	3	bc	•	c.omg.c	•	48	36	–
	Malin Head ...	29.81	50	SSW	6	0	29.90	−.11	45	45	−1	WNW	4	op	3	c.g	•	51	45	0.06
	Blacksod Pt. ...	29.80	54	SSW	8	rq	30.00	−.03	49	44	−5	NW	2	c	2	cq.rq	•	54	44	0.42
	Donaghadee ...	30.02	47	SW	3	c	29.94	−.28	46	45	+1	WNW	4	c	3	c	•	51	42	0.13
	Liverpool (Bidston)	30.15	46	ESE	1	b	29.92	−.40	53	51	+12	SSW	6	0	4	b	•	54	41	–
	Holyhead	30.11	51	S	6	ogu	29.95	−.33	52	51	+2	NNW	5	am	4	om.ogu	•	52	48	0.16
	Parsonstown ...	29.92	50	SE	1	c	30.03	−.17	46	45	+4	NW	1	0	*	c	4.5	54	41	0.28
	Valencia	30.01	55	SSE	4	og	30.07	−.10	49	48	−3	N	2	og	4	og	0.0	55	48	0.64
	Roche's Point ...	30.11	54	SSW	5	o	30.06	−.20	50	49	−2	NW	4	rog	4	o	•	55	49	0.25
	Pembroke (St. Ann's Hd.)	30.19	52	SW	5	0	30.02	−.31	55	54	+5	SSW	6	ru	5	0	0.0	55	50	0.03
	Scilly	30.21	52	S	5	0	30.13	−.16	55	53	+4	S	5	0	4	0	0.0	55	48	–
	Jersey (St. Aubin's) ...	30.31	46	SSE	2	0	30.25	−.11	53	48	+4	SW	2	om	2	om	•	53	46	–
	Portland Bill ...	30.27	48	ENE	1	0	30.19	−.18	52	49	+4	W	4	0	4	om	•	52	46	–
	Dungeness	30.30	46	SW	3	0	30.18	−.22	50	49	+2	W	2	0	2	0	•	53	32	–
	London (Brixton) ...	30.28	46	SW	1	0	30.16	−.26	48	45	+18	SW	2	0	*	fg.0	0.0	49	29	–
	Oxford	30.24	44	S	1	0	30.12	−.29	49	46	+19	SSW	3	0	*	0	•	49	30	•
	Yarmouth	30.25	46	SW	2	bc	30.07	−.30	46	44	+3	SW	3	c	3	b.bc	•	48	41	–
Germany	Cuxhaven	30.11	46	W	1	0	30.08	−.22	42	41	−3	SW	4	0	*	0	•	48	39	–
	Berlin	30.28	46	W	1	0	30.21	−.10	44	41	−4	W	3	0	*	0	•	48	43	–
	Wiesbaden	•	•	•	•	•	30.29	−.14	37	36	−7	SSW	4	0	•	•	•	48	36	–
	Munich	30.38	31	SE	4	f	30.32	−.12	24	24	−7	SE	3	b	•	f	•	32	24	–
France & Netherlands	The Helder ...	30.26	49	SW	1	0	30.07	−.30	49	47	−1	SW	3	c	3	0	•	50	46	–
	Brussels	•	•	•	•	•	30.26	−.19	35	35	−4	SSW	2	fc	•	0	•	46	35	–
	C. Gris Nez ...																•			
	Paris	30.36	38	ESE	2	0	30.31	−.11	35	34	−5	SSW	2	3	•	0	•	40	34	–
	Brest	30.30	48	E	1	m	30.25	−.11	53	50	+1	SW	1	b	1	m	•	53	43	–
	Lorient	30.32	46	SE	3	0	30.26	−.11	49	47	+4	E	2	0	2	0	•	49	?	–
	Rochefort	30.39	37	E	1	0	30.35	−.06	37	36	+1	ENE	3	0	•	m.0	•	39	32	–
	Belfort	30.38	32	ENE	3	f	30.32	−.09	28	28	−5	N	0	0	•	f	•	40	28	–
	Lyons	30.41	32	N	1	m	30.38	−.08	29	29	−3	S	1	0	•	m	•	32	28	–
	Nice	30.25	53	E	1	b	30.22	−.08	50	41	−1	E	1	0	–	b	•	59	48	–
	Perpignan	30.28	39	L	0	b	30.25	−.09	32	28	+2	SW	1	0	•	b	•	54	30	–
	Biarritz	30.26	44	E	2	m	30.25	−.03	35	35	+3	L	0	0	2	m	•	48	32	–
Span. Pen.	Corunna																•			
	Lisbon	30.28	54	N	3	b	30.28	−.02	47	45	0	NNE	3	b	•	b	•	59	46	–
	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 recorded on the Tower of the Wesleyan Training College, Westminster*

Bright Sunshine yesterday Southport 5.2 *hrs.*

WEATHER CHARTS

FOR Friday, 1st December, 1899.

BAROMETER, WIND AND SEA.

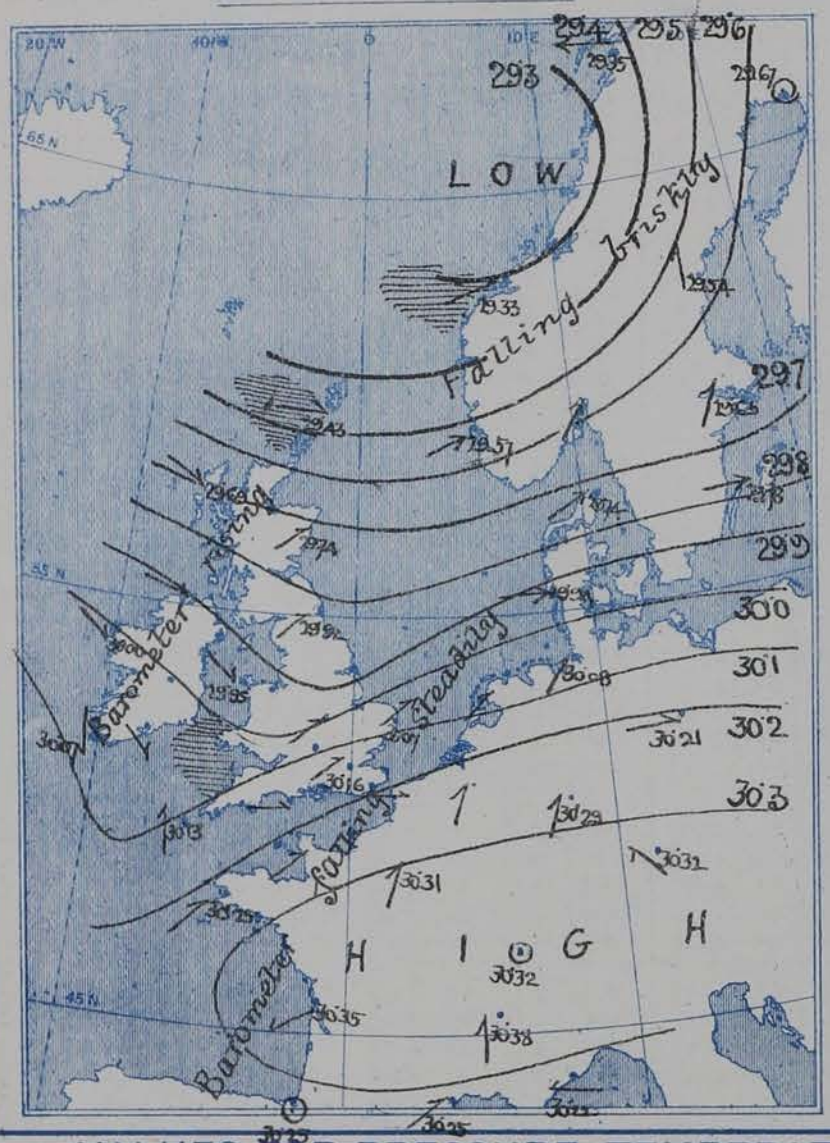
BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show 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* ▓

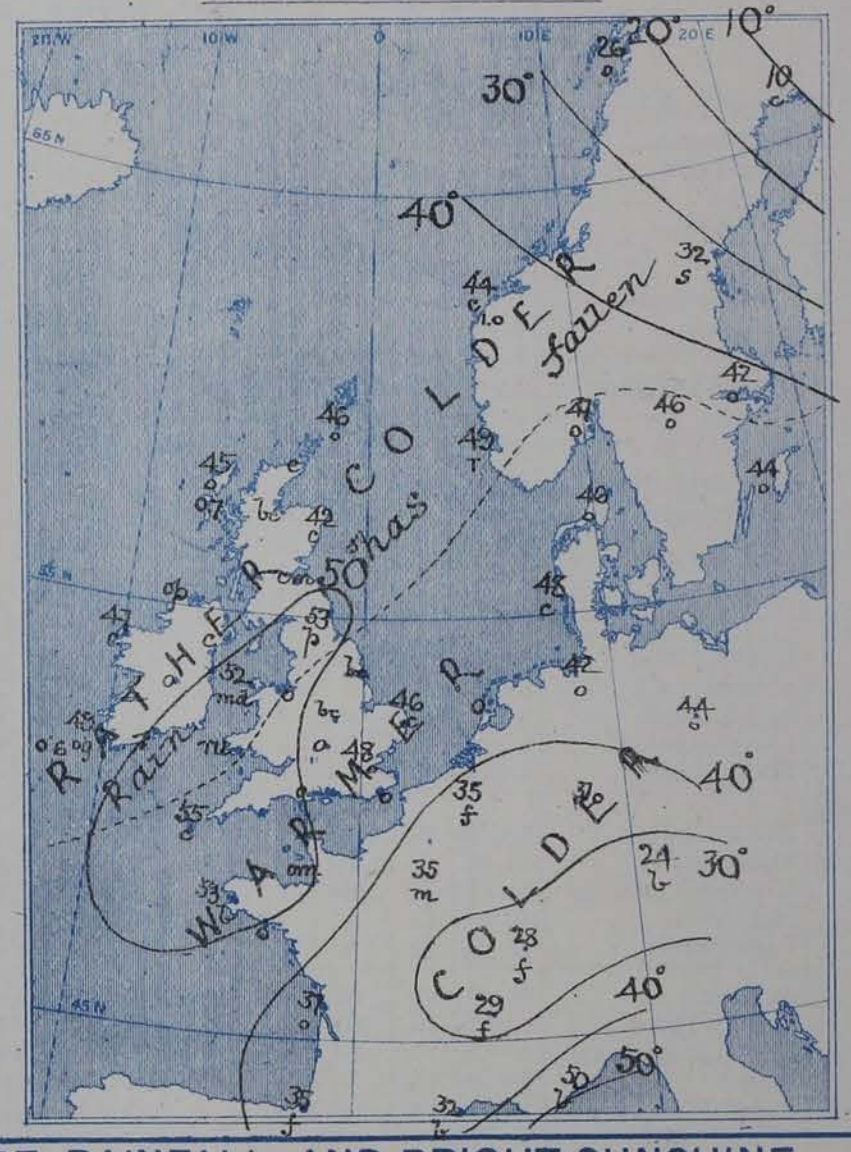


TEMPERATURE AND WEATHER.

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 Westminste.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·3 in: and upwards in an anticyclone lying over the greater part of France and South Germany.
Lowest, 29·3 in: and less, in a large depression of moderate depth lying off the west of Norway.
Gradients moderate or slight generally.
Barometer rising in the west and north of our Islands, but falling elsewhere — briskly in Norway.

TEMPERATURE

Highest, 55° at Pembroke and Scilly, 53° at Shields, Liverpool, Jersey, and Brest, and 52° at Holyhead and Portland Bill.
Lowest, (?) 10° at Haparanda, and 26° at Bodø; 24° at Munich, 27° at Biarritz, 29° at Lyons and 32° at Perpignan; lowest in our Islands 42° at Aberdeen.
During yesterday the thermometer rose to 50° and upwards in the west and north of our Islands generally and to 55° on our southwest coasts. In London it did not exceed 49°.

WIND

SW^r^ over England and the east of Scotland as well as in Norway, Denmark, Germany, the Netherlands, and the north of France; strong in force on some parts of our own western coasts and also on the Eastern shores of the North Sea.
Light from the S^th^ over Central France, and from the E^ast^ in the west and south of that country.

WEATHER

Fair or fine over the eastern part of Great Britain generally, as well as in the southern part of France and Germany.
Cloudy or dull elsewhere, with fog or mist over Belgium and Central France and rain at several of our own western stations, as well as at Christiansund; snow is falling at Hernösand.
Since yesterday morning rain has fallen at most of our western and northern stations, and also in many parts of Scandinavia; the largest amounts reported being 1·0 in: at Christiansund, 0·7 in: at Stornoway, and 0·6 in at Valencia (Ireland).

SEA

Moderate or slight generally, but ~~rather~~ rough at Isumburgh Hd, and rather rough at Christiansund and Pembroke.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression which was approaching our northwest coasts yesterday has travelled away quickly in a northeasterly direction. In its rear some "V shaped" secondary disturbances have appeared in the west; these are likely to advance eastwards and to cause slight rain in many parts of England.

The anticyclone continues to disperse slowly but steadily and it seems probable that for the next two or three days the weather in these Islands will be affected by cyclonic systems bringing rain, and probably gales or strong winds to many parts of our coasts.

FORECASTS

For the 24 hours ending at NOON on 2^nd^ DECEMBER, 1899.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	NW^ly^ winds, moderate or fresh; cloudy, some showers.	6 SCOTLAND WEST	Same as N^os^ 0 and 1.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.	Same as N° 5.	8 ENGLAND S.W.	
3 ENGLAND EAST		9 IRELAND NORTH	NW^ly^ winds, backing later; changeable some rain.
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH	SW^ly^ to NW^ly^ winds, moderate; fair at first, some rain later.	WARNINGS	At 7·15 pm yesterday to districts 2 and 7. "Hoist South Cone". At 10·30 am today to districts 0 to 2, 6, 7, 9 and 10 "Lower Cone"

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Skudesnaes ...	30·01	50	47	NSW	4	o	2
Sumburgh Head	29·66	49	47	SW	4	r	6
Stornoway... ...	29·70	52	51	SW	8	r	8
Aberdeen	29·92	49	45	SW	7	c g q u	4
Shields	30·15	50	46	SW	2	b c m	2
Malin Head ...	29·90	48	47	SSW	6	c	4
Blacksod Pt.. ...	29·92	53	51	SSW	7	c q	6
Holyhead	30·19	51	49	S	5	o m	4
Valencia	30·07	54	51	SSE	4	o g	5
Scilly	30·25	52	49	S	4	o	3
Jersey	30·33	48	45	SE	2	o	2
Portland Bill ...	30·31	49	46	SSE	3	o m	2
Dungeness ...	30·33	47	46	SSE	2	o	2
London (Westminster)	30·30	48	45	Z	0	f g	*
Yarmouth ...	30·28	48	45	SW	2	b	2
Rochefort ...	30·40	38	37	E	1	m	*

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

Weather in morning foggy in many parts of England, as well as in Belgium, South Germany, and Central France. Fine in the east of Scotland and the northern and central parts of Ireland, as well as in Sweden and the greater part of southern Europe. Dull in the south of Ireland and the north of Scotland, and also over the western, central and eastern parts of the Continent generally, with rain at Stornoway, Christiansund and Ulcaborg, and snow at Hangö. Thunderstorm reported at Algiers. Rain falling later at most of our own western and northern stations as well as in many parts of Scandinavia; fog clearing over England.

Temperature fallen in most places. Morning readings highest 60° at Malta, 59° at Palma, and 58° at Algiers; above 50° at the Mediterranean and Adriatic stations generally, as well as on our own extreme west and southwest coasts. Lowest 18° at Kuopio, 20° at Haparanda, and 22° at Archangel and Moscow, below the freezing point over Russia generally, as well as at some stations in Central France and the south east of England. Rising during day to 50° and upwards in most parts of the United Kingdom, and to 55° on our extreme southwest coasts; exceeding 55° in the extreme south of France.

Wind S' or SW' over the greater part of our Islands, and strong in force on our extreme northwest coasts, with a gale at Blackard Point. Calm or variable in the southeast of England, light from the E.ward in France, and light from the NE.ward or N.ward over the Spanish Peninsula. W' or NW' over nearly the whole of northern, central, and eastern Europe, and strong in force at some of the Scandinavian and Danish stations; variable in Italy. Subsequently increasing to a moderate or fresh gale from the SW.ward on many parts of our north and northwest coasts.

Barometer highest, 30·4 in: and upwards over the southeast of England, the greater part of France and west and south of Germany; 30·1 in: and upwards in an anticyclone covering the whole of central and southern Europe, and extending westwards over England and the greater part of Ireland. Lowest 29·2 in: and less, in a depression over the extreme north of Russia, 29·8 in: and less in another disturbance approaching our own extreme northwest coasts. Latter disturbance subsequently moving northeastwards, but barometer falling steadily over our Islands during day.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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

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DAILY WEATHER REPORT

for 8 a.m. on Saturday, 2nd December, 1899.

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

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		Ins.	°				Ins.	Ins.	°	°	°									Ins.
Scandinavia	Haparanda	29.52	8	SW	0	b	29.52	-.15	6	5	-4	N	2	b	4	b	0	21	1	-
	Hernösand	29.30	32	N	4	r	29.38	-.16	30	29	-2	NE	2	o	3	r	0	34	19	0.08
	Stockholm	29.33	45	SW	0	o	29.29	-.04	39	38	-3	W	2	f	3	o	0	46	34	0.04
	Wisby	29.46	44	W	6	o	29.32	-.46	42	41	-2	WNW	4	bc	3	o	0	45	39	0.08
	Karlstad	29.35	43	NNW	2	b	†29.41	-.19	33	32	-13	NNE	2	b	4	b	0	*	*	-
	Bodö	29.23	27	ENE	6	S	29.45	+.10	27	25	+1	E	2	o	0	S	0	27	23	-
	Christiansund ...	29.17	41	NSW	4	r	29.54	+.21	39	36	-5	NE	7	r	6	r	0	44	36	0.51
	Skudesnaes ...	29.50	41	NW	4	c	29.52	-.05	44	41	-5	NW	10	o	5	c	0	49	39	*
	Færder (X'iania Fjord)	29.42	47	W	5	bc	29.30	-.30	42	38	-6	WSW	4	o	4	bc	0	48	42	-
	The Scaw (Skagen)	29.53	46	W	4	bc	29.35	-.39	44	41	-2	WNW	4	c	1	bc	0	48	43	0.08
	Fanö	29.71	48	WSW	4	o	29.67	-.27	43	42	-5	W	7	c	0	o	0	48	43	0.20
British Islands	Sumburgh Head ...	29.48	43	WNW	7	c	30.05	+.62	38	36	-8	N	6	o	6	o.c	0	47	35	0.15
	Stornoway	29.84	45	NNW	5	bc	30.30	+.61	42	40	-3	NNW	3	o	3	r.q.c	1.6	46	38	0.18
	Wick	29.75	43	NW	5	o	30.19	+.57	41	40	-2	NW	5	oprsh	4	o	0	46	38	0.14
	Nairn	29.84	43	WSW	2	r	30.26	+.56	41	38	-3	NW	2	c	2	r	0	47	38	0.01
	Aberdeen	29.81	41	WSW	4	bq	30.20	+.46	40	38	-2	NW	6	ogqp	4	bc.bq	1.1	46	40	0.01
	Leith	29.90	43	WSW	2	b	30.30	+.49	40	37	-6	W	2	c	0	b	0	49	37	-
	Shields	29.93	45	W	3	b	30.23	+.41	40	38	-13	NNW	3	bc	2	r.o.b	0	53	38	0.01
	Spurn Head ...	†29.94	47	W	5	c	30.24	+.27	43	40	-4	NNW	5	b	3	c	0	51	41	0.03
	Loughborough ...	30.04	44	W	2	b	30.31	+.29	38	37	-10	NNW	2	bmw	1	c.or.b	0	54	37	0.10
	Malin Head ...	30.05	45	NW	6	cqr	30.35	+.45	47	45	+2	NW	5	cp	4	c.rq	0	48	43	-
	Blacksod Pt.. ...	30.20	46	NNW	4	bc	30.40	+.40	45	42	-2	SW	1	bc	0	bcq.bc	0	48	41	0.02
	Donaghadee ...	30.08	44	NNW	4	bcp	30.35	+.41	41	40	-5	NW	3	bc	3	bcp	-	47	39	0.02
	Liverpool (Eidston)	30.06	43	W	5	bc	30.34	+.42	46	43	-7	W	3	o	3	p	0	53	44	-
	Holyhead	30.10	48	NW	6	bcq	30.35	+.40	48	44	-4	NW	4	c	3	c.bcp	0	52	44	0.14
	Parsonstown ...	30.21	41	NW	1	bc	30.44	+.41	30	30	-16	SW	1	o	0	bc.o	3.8	49	30	-
	Valencia	30.25	48	N	2	b	30.43	+.36	41	38	-8	E	1	bc	3	bcv.b	2.4	52	38	0.01
	Roche's Point ...	30.21	48	NW	3	b	30.46	+.40	39	38	-11	NNW	3	bcm	3	r.b	0	50	38	0.22
	Pembroke (St. Ann's Hd.)	30.15	47	NNE	2	bc	30.40	+.38	46	44	-9	NNE	2	c	3	o.bc	0.0	55	43	0.37
	Scilly	30.10	55	W	6	c	30.39	+.26	48	45	-7	NNE	2	c	2	o	0.0	57	45	-
	Jersey (St. Aubin's) ...	30.21	54	WSW	4	o q	30.37	+.12	50	45	-3	NW	2	cq	2	o.oq	0	55	47	-
	Portland Bill ...	30.11	54	WSW	6	r	30.38	+.19	42	40	-10	N	2	b	2	o.r	0	55	40	0.06
	Dungeness	30.06	54	W	5	c	30.31	+.13	36	35	-14	WNW	1	b	1	c	0	54	34	-
	London (Brixton) ...	30.05	52	W	2	or	30.32	+.16	35	35	-13	W	1	b		o.r.b	0.0	55	34	0.25
	Oxford	30.13	45	W	2	b	30.35	+.23	36	35	-13	WSW	2	b	0	c.r.b	0	54	36	0.29
	Yarmouth	29.95	49	NW	4	r	30.23	+.16	40	39	-6	WNW	4	bm	4	c.r	0	52	36	0.11
France & Netherlands. Germany	Cuxhaven	29.88	43	SW	5	o	29.81	-.27	44	42	+2	WNW	7	c	0	c.rq	0	46	39	0.28
	Berlin	29.99	43	W	3	c	29.81	-.40	44	43	0	W	4	o	0	o	0	46	37	0.04
	Wiesbaden... ...	*	*	*	*	*	30.16	-.13	42	39	+5	WSW	5	c	0	*	0	43	36	0.04
	Munich	30.19	29	SW	2	b	30.20	-.12	32	32	+8	SW	6	b	0	b	0	32	23	-
	The Helder ...	29.88	50	SW	5	r	30.07	.00	48	43	-1	NW	5	bc	6	r	0	52	43	0.28
	Brussels	*	*	*	*	*	30.25	-.01	37	37	+2	W	1	b	0	o	0	45	34	0.04
	C. Gris Nez ...	30.09	52	W	6	o	30.28		44	42		N	5	o	5	o	0	54	37	0.43
	Paris	30.31	41	S	2	o	30.29	-.02	43	43	+8	SSW	1	o	0	o	0	43	35	-
	Brest	30.24	55	SW	2	o	30.36	+.11	43	41	-10	N	1	bc	2	o	0	53	39	-
	Lorient	30.28	55	WSW	3	o	30.36	+.10	50	49	+1	NNE	3	bc	2	o	0	57	48	-
	Rochefort	30.37	43	ESE	3	o	30.41	+.06	44	43	+7	SSE	3	o	0	o	0	45	37	-
	Belfort	30.27	30	WSW	4	f	30.31	-.01	31	31	+3	W	3	f	0	[illegible]	0	40	28	-
	Lyons	30.35	30	NW	1	f	30.41	+.03	31	31	+2	NE	1	m	0	[illegible]	0	32	29	-
	Nice																			
	Perpignan	30.20	48	E	0	b	30.22	-.03	52	41	+20	NW	3	bc	0	b	0	67	32	-
	Biarritz	30.29	37	E	3	f	30.32	+.07	41	40	+6	SE	3	o	2	f	0	41	34	-
Span. Pen.	Corunna																			
	Lisbon	30.26	55	NNE	3	b	30.30	+.02	48	46	+1	NNE	4	b	0	b	0	61	46	-
	Azores (P. Delgada)	29.76	57	NNW	3	b	29.69	+.06	63	62	+2	SSE	5	c	4	b	0	64	55	-

For Explanation of Columns, see bottom of last page.

† *Received too late for Insertion in Charts on next page.*

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

Bright Sunshine yesterday Southport 0·0 hrs.

WEATHER CHARTS

FOR Saturday, 2nd December, 1899.

BAROMETER, WIND AND SEA.

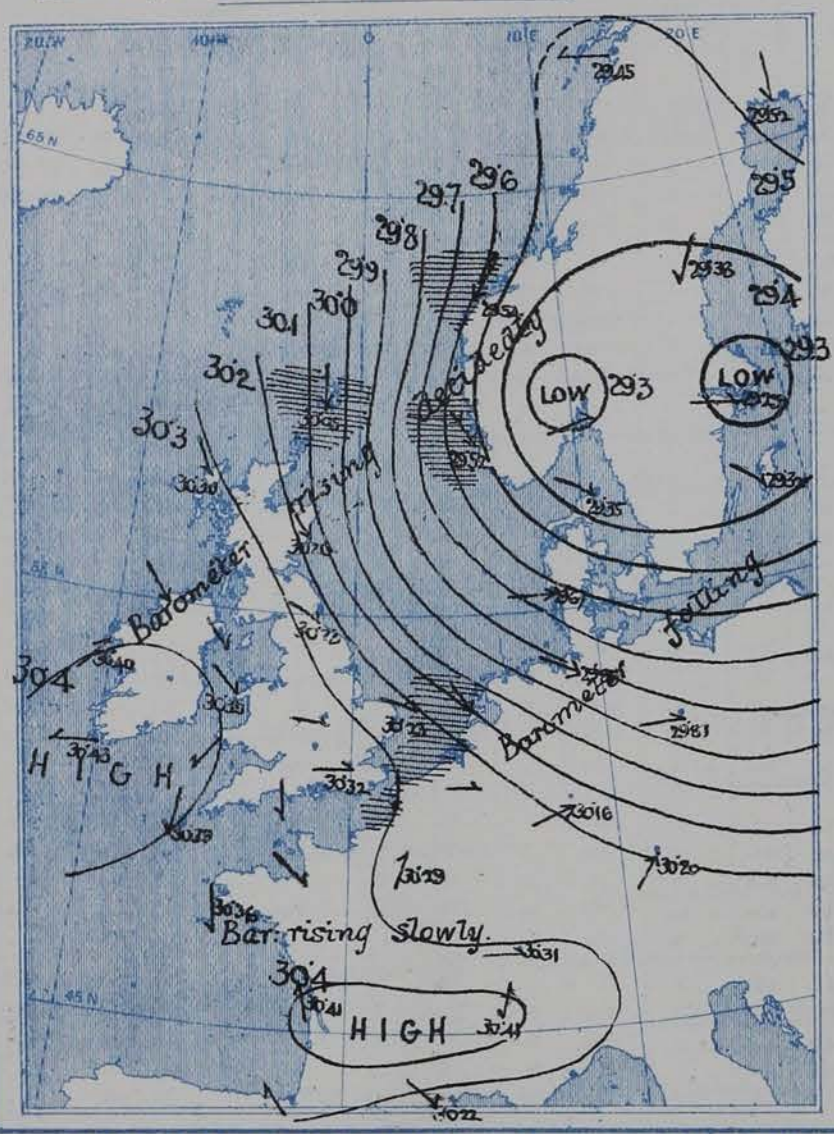
BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show 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* ▓

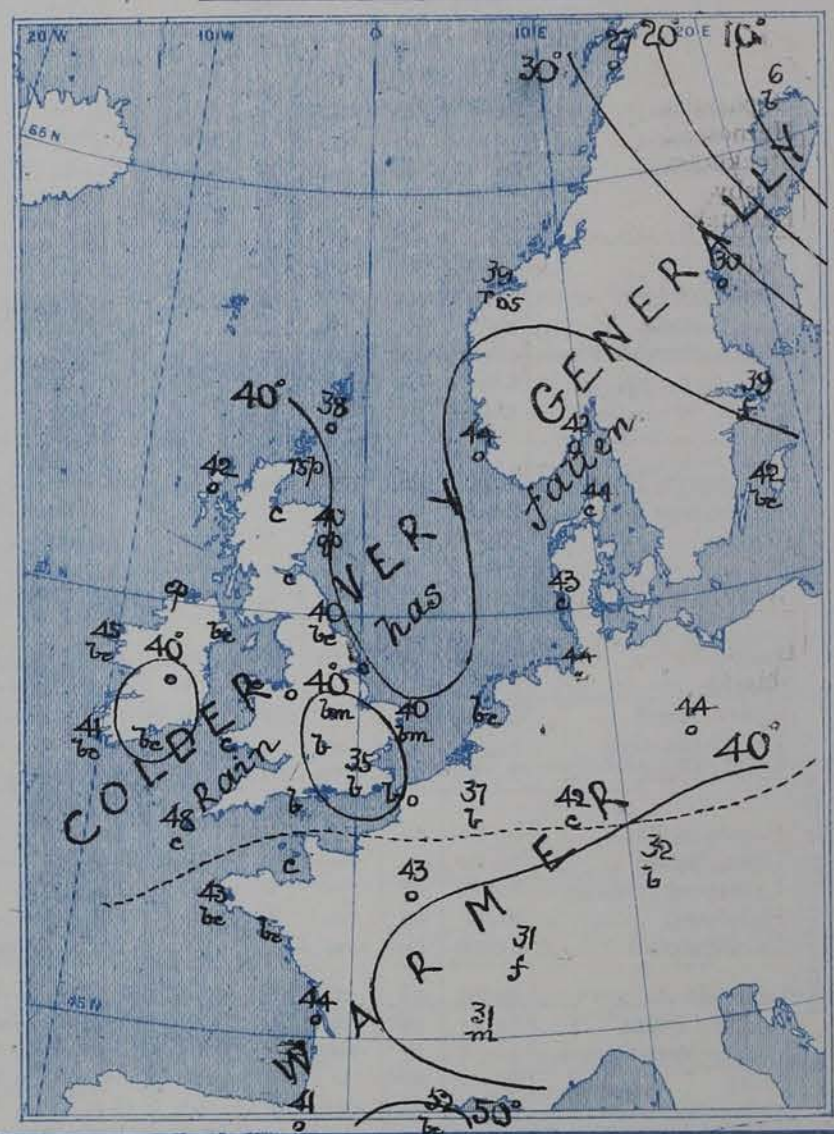


TEMPERATURE AND WEATHER.

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 Westminste.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.4 ins. and upwards over Ireland and the St. George's Channel, and also over central France.
Lowest 29.3 ins. and less in a large depression lying over the S.W. parts of Scandinavia.
Gradients steep over the E. parts of the North Sea, moderate or slight elsewhere.
Barometer falling in Denmark, N. Germany and the S. of Sweden, rising elsewhere, – briskly in the N. and E. of our Islands.

TEMPERATURE

Highest 52° at Perpignan, 50° at Jersey and Lorient, and 48° at Holyhead, Scilly and the Helder.
Lowest (1) 6° at Haparanda, and 27° at Bodö; (2) 31° at Belfort and Lyons, and 32° at Munich; (3) 30° at Parsonstown, and 35° in London.
The maxima registered yesterday were below 50° at most of our N. stations. On many parts of our S. and SW. coasts the thermometer rose to 55°, and at Scilly to 57°.

WIND

Moderate to fresh from the NW. over the greater part of the United Kingdom, and strong to a gale from the same quarter or from W. on the eastern shores of the North Sea.
Light from the W. over the central and southern parts of England; moderate to fresh from the same quarter or from SW. in Germany; light from the SE. in the west of France, variable in the south of that country.

WEATHER

Fine over the United Kingdom as a whole, but showery in the N. of Scotland, with sleet & hail at Wick.
Cloudy or dull at most of the Continental stations, with fog at Stockholm and Belfort and rain at Christiansund.
Since yesterday morning rain has fallen in most parts of NW. Europe, but the amount has been as a rule very small.

SEA

Rough off the Shetlands and W. of Norway, as well as at the Helder & Cape Gris Nez, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The large depression noticed yesterday off the Norwegian coast has moved SE. to the more S. parts of Scandinavia, while the "V shaped" secondary system which lay over the W. of our Islands have passed away to the E. A new anticyclone has now appeared over Ireland and is spreading E.; so that for a time the weather over England is likely to remain fair and cold, with fog in many parts of the inland districts. These conditions are scarcely likely to last for long.

FORECASTS

For the 24 hours ending at NOON on 3RD DECEMBER 1899.

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	NW. winds, fresh, to W. moderate; some showers at first, then fair.
1	SCOTLAND EAST	
2	ENGLAND N.E.	NW. winds, moderate or fresh; fair generally, but perhaps local showers.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	W. to N. winds, light; fair generally, frosty at night, with local fogs.
5	ENGLAND SOUTH	
6	SCOTLAND WEST	W. and NW. winds, light; fair generally, colder.
7	ENGLAND N.W.	
8	ENGLAND S.W.	N. to variable breezes; fair generally, colder.
9	IRELAND NORTH	Variable breezes, finally S.; fair, cold.
10	IRELAND SOUTH	
	WARNINGS	None issued.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Skudesnaes ...	29.61	45	44	NW	6	c	4
Sumburgh Head	29.44	44	40	NNW	6	o	6
Stornoway... ...	29.74	45	43	NW	4	c	4
Aberdeen	29.76	44	39	NbW	8	bc	3
Shields	29.98	49	46	SW	2	o	2
Malin Head ...	29.96	45	43	NW	6	c	5
Blacksod Pt.. ...	30.12	48	44	NNW	4	bc/p	3
Holyhead	30.03	49	46	WNW	4	c	3
Valencia	30.13	51	46	NNW	4	bc	4
Scilly	30.11	56	53	SW	5	o	3
Jersey	30.24	54	49	WNW	3	o	3
Portland Bill ...	30.13	54	53	WNW	5	o	5
Dungeness ...	30.11	52	50	W	4	c	3
London (Westminster)	30.06	55	51	SW	2	o	
Yarmouth ...	29.95	52	49	SW	4	c	3
Rochefort ...	30.35	45	43	ESE	3	o	*

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

Weather in morning fair or fine over the E^rn parts of Gt. Britain as well as over S^rn Europe generally. Cloudy or dull elsewhere, with fog or mist over Belgium and central France and rain at several of our own W^rn stations and also at Christiansund; snow falling at Hernösand. Rain falling later over NW^rn Europe generally, but amounts mostly slight.

Temperature risen briskly over England and to a less extent over the S. of Sweden, N^rn Italy and the S. of France. Morning readings highest (1) 62° at Oran, 61° at Malta, and 57° at Sfax; (2) 55° at Pembroke and Scilly, above 50° over the W^rn and S^rn parts of Gt. Britain generally. Lowest (1) 10° at Haparanda, 14° at Uleaborg, 16° at Kuopio, and 18° at Archangel; (2) 23° at Limoges, 24° at Munich, and 28° at Belfort. Daily maxima below 50° over the N^rn parts of our Islands, but thermometer reaching 55° on several parts of our S^rn coasts, and touching 57° at Scilly. Exceeding 55° also at some stations in the W. and S. of France, and reaching 67° at Perpignan.

Wind light to moderate from the W^rd or NW^rd over Ireland and the W. and N. of Scotland, SW^rly over England, the Netherlands, Denmark, Germany and the south of Scandinavia; variable over the northern parts of Russia and Scandinavia. Light from the E^rd in the west of France; variable over southern Europe generally, but N^rly or NE^rly in Spain. Subsequently veering to the W^rd or NW^rd over England; blowing strongly from the same quarters in the north of Scotland.

Barometer highest 30.4 ins. and upwards over central Spain; 30.2 ins. and upwards in an anticyclone covering the whole of central and S^rn Europe. Lowest 29.3 ins. and less in a large depression lying off the W. of Norway, 29.5 ins. and less in another disturbance over N^rn Russia. Norwegian depression subsequently moving SE^rds; "V shaped" secondary systems passing E^rd across our Islands.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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

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DAILY WEATHER REPORT

for 8 a.m. on Sunday 3rd 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	29.67	6	N	2	o	29.74	+ .22	13	12	+ 7	E	o	c	•	o	•	?	o	—
	Hernösand	29.75	27	N	2	o	29.95	+ .57	25	24	— 5	N	2	b	•	o	•	?	23	0.08
	Stockholm	29.62	32	E	o	s	29.99	+ .70	26	24	— 13	NW	2	o	•	s	•	45	26	—
	Wisby	29.52	36	NNW	6	r	29.95	+ .63	33	30	— 9	N	8	o	•	r	•	43	33	0.04
	Karlstad	29.76	36	NNE	8	b	30.16	+ .75	28	25	— 5	WNW	4	b	•	s.b	•	•	•	—
	Bodö	29.84	29	NW	6	s	29.93	+ .48	33	32	+ 6	N	4	s	2	s	•	33	25	—
	Christiansund ...	30.08	36	NE	3	s	30.17	+ .63	38	35	— 1	WNW	6	s	6	s	•	39	34	0.16
	Skudesnaes ...	30.12	41	NNW	8	c	30.36	+ .84	38	36	— 6	NNE	2	o	3	c	•	43	36	•
	Færder (X'iania Fjord)	29.82	42	NNW	7	b	30.20	+ .90	37	32	— 5	NNW	2	b	2	b	•	45	37	—
	The Scaw (Skagen)	29.87	43	N	6	c	30.23	+ .88	40	35	— 4	NNE	5	b	1	c	•	48	39	—
	Fanö	30.02	46	NW	7	c	30.30	+ .63	37	35	— 6	NW	1	b	•	c	•	46	37	—
British Islands.	Sumburgh Head ...	30.30	39	N	3	o	30.31	+ .26	41	38	+ 3	WSW	1	o	4	o	•	41	35	0.01
	Stornoway	30.41	40	E	o	b	30.22	— .08	45	43	+ 3	SW	4	o	4	c, b	0.3	45	32	0.03
	Wick	30.36	39	W	4	o	30.31	+ .12	41	39	0	WSW	4	o	3	o	•	42	32	0.03
	Nairn	30.44	37	W	1	o	30.34	+ .08	33	32	— 8	E	o	o	o	o	•	43	27	—
	Aberdeen	30.40	36	WNW	3	bcp	30.39	+ .19	35	32	— 5	S	2	cm	2	cg. bp	0.4	42	31	0.01
	Leith	30.43	42	W	3	bc	30.36	+ .06	37	35	— 2	SSW	1	m	•	bc	•	42	35	—
	Shields	30.42	43	WNW	2	o	30.46	+ .23	37	35	— 3	SW	2	om	3	bc, o	•	45	34	—
	Spurn Head ...	30.38	42	NW	5	bc	30.51	+ .27	40	39	— 3	NW	4	bc	5	bc	•	46	38	—
	Loughborough ...	30.45	36	W	1	bc	30.53	+ .22	25	25	— 13	SE	1	cf	•	bc. om. b	•	47	22	—
	Malin Head ...	30.42	44	SE	1	bc	30.24	— .11	43	43	— 4	SSW	5	r	4	o. bc	•	48	40	0.01
	Blacksod Pt. ...	30.41	45	SSW	3	c	30.22	— .18	48	42	+ 3	S	5	rq	4	bc, c	•	48	42	0.41
	Donaghadee ...	30.44	45	WNW	3	cg	30.38	+ .03	45	44	+ 4	WNW	3	c	3	cg	•	47	40	—
	Liverpool (Bidston)	30.46	42	E	o	bc	30.44	+ .10	35	34	— 11	ESE	2	bc	?	bc. f	•	48	33	—
	Holyhead	30.43	47	SE	1	o	30.43	+ .08	46	44	— 2	S	2	cm	1	c, o	•	48	42	—
	Parsonstown ...	30.46	37	SE	1	bc	30.33	— .11	44	43	+ 14	SE	1	or	*	bc	2.1	44	29	0.09
	Valencia	30.40	46	ESE	2	o	30.29	— .14	52	50	+ 11	SE	5	og	4	og. o	0.5	52	40	—
	Roche's Point ...	30.44	47	SE	3	o	30.38	— .08	51	48	+ 12	S	5	o	4	o	*	51	39	—
	Pembroke (St. Ann's Hd.)	30.45	45	NNE	1	bc	30.44	+ .04	49	47	+ 3	SSE	5	c	3	bc	0.0	49	44	—
	Scilly	30.41	48	E	2	c	30.38	— .01	50	48	+ 2	SSE	5	c	2	c	0.5	50	45	—
	Jersey (St. Aubin's) ...	30.43	47	NNE	2	bc	30.49	+ .12	48	43	— 2	ESE	3	bcm	3	bc. w	*	51	35	—
	Portland Bill ...	30.46	44	NE	2	b	30.49	+ .11	45	42	+ 3	E	4	om	3	bc. b	*	55	39	—
	Dungeness	30.46	37	N	1	b	30.51	+ .20	31	30	— 5	N	3	bc	2	b	*	54	29	—
	London (Brixton) ...	30.44	42	NW	1	bcm	30.54	+ .22	28	27	— 7	E	o	of	*	b. bcm		45	27	—
	Oxford	30.47	36	N	1	b	30.55	+ .20	25	25	— 11	E	o	f	*	b. f	*	48	25	—
	Yarmouth	30.35	42	NW	4	bc	30.48	+ .25	38	37	— 2	WNW	3	cm	4	bc	*	45	37	0.03
France & Netherlands. Germany.	Cuxhaven	29.98	45	NW	8	b	30.30	+ .49	41	37	— 3	NNW	2	b	*	b	*	46	39	0.04
	Berlin	30.28	34	W	6	b	30.36	+ .55	34	33	— 10	W	5	c	*	b	*	?	33	0.08
	Wiesbaden	*	*	*	*	*	30.41	+ .25	42	40	0	WNW	3	o	*	*	*	48	39	0.04
	Munich														*		*			
	The Helder ...	30.22	46	NNW	7	bc	30.39	+ .32	43	41	— 5	N	1	bc	2	bc	•	48	43	—
	Brussels	*	*	*	*	*									*		*			
	C. Gris Nez ...	30.36	45	N	5	b	30.47	+ .19	43	41	— 1	ENE	1	c	1	b	•	48	41	—
	Paris	30.41	37	NNE	2	b	30.50	+ .21	27	27	— 16	NE	1	b	•	b	•	48	26	0.04
	Brest	30.44	43	NE	2	b	30.44	+ .08	41	40	— 2	ENE	1	b	1	b	•	55	37	—
	Lorient	30.41	48	ENE	4	c	30.45	+ .09	41	39	— 9	ESE	4	c	3	c	•	57	39	—
	Rochefort	30.41	42	NNW	2	f	30.44	+ .03	38	37	— 6	E	3	b	•	f	•	54	32	—
	Belfort	30.38	32	W	1	f	30.47	+ .16	26	26	— 5	E	o	f	•	f	•	35	25	—
	Lyons	30.37	37	N	1	o	30.31	— .10	35	33	+ 4	N	1	o	•	o	•	41	31	—
	Nice	29.99	48	E	2	b	30.04		47	39		E	2	bc	1	b	•	59	43	—
	Perpignan	30.23	50	NW	5	b	30.21	— .01	48	43	— 4	NW	4	o	•	b	•	61	46	—
	Biarritz	30.34	46	E	2	o	30.32	.00	44	42	+ 3	E	3	c	2	o	•	48	39	—
Span. Pen.	Corunna														*		*			
	Lisbon	30.26	55	NNE	3	b	30.29	— .01	47	45	— 1	N	4	b	•	b	•	61	46	—
	Azores (P. Delgada)	29.53	61	SSE	5	bc	29.48	— .21	64	63	+ 1	SSE	2	o	5	bc	•	64	59	0.59

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 recorded on the Tower of the Wesleyan Training College, Westminster*

Bright Sunshine yesterday Southport 5·0 hrs.

WEATHER CHARTS

FOR Sunday, 3rd December, 1899.

BAROMETER, WIND AND SEA.

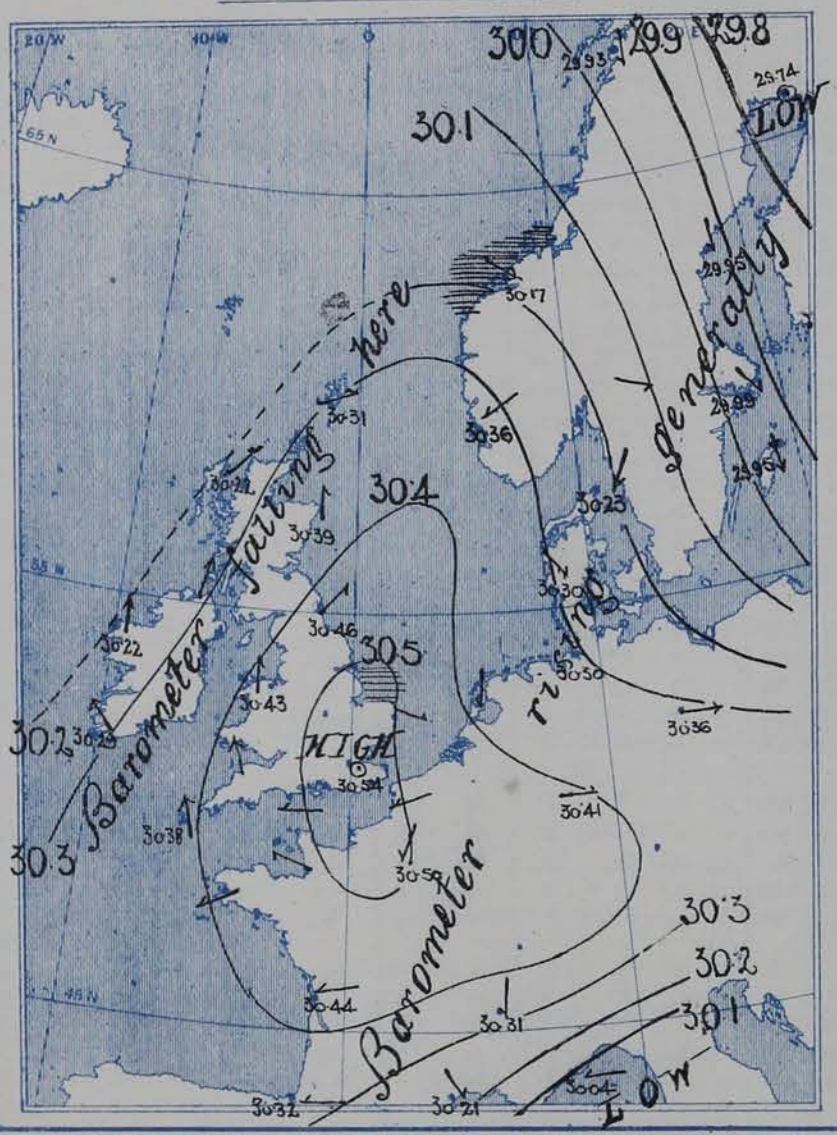
BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show 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* ▓

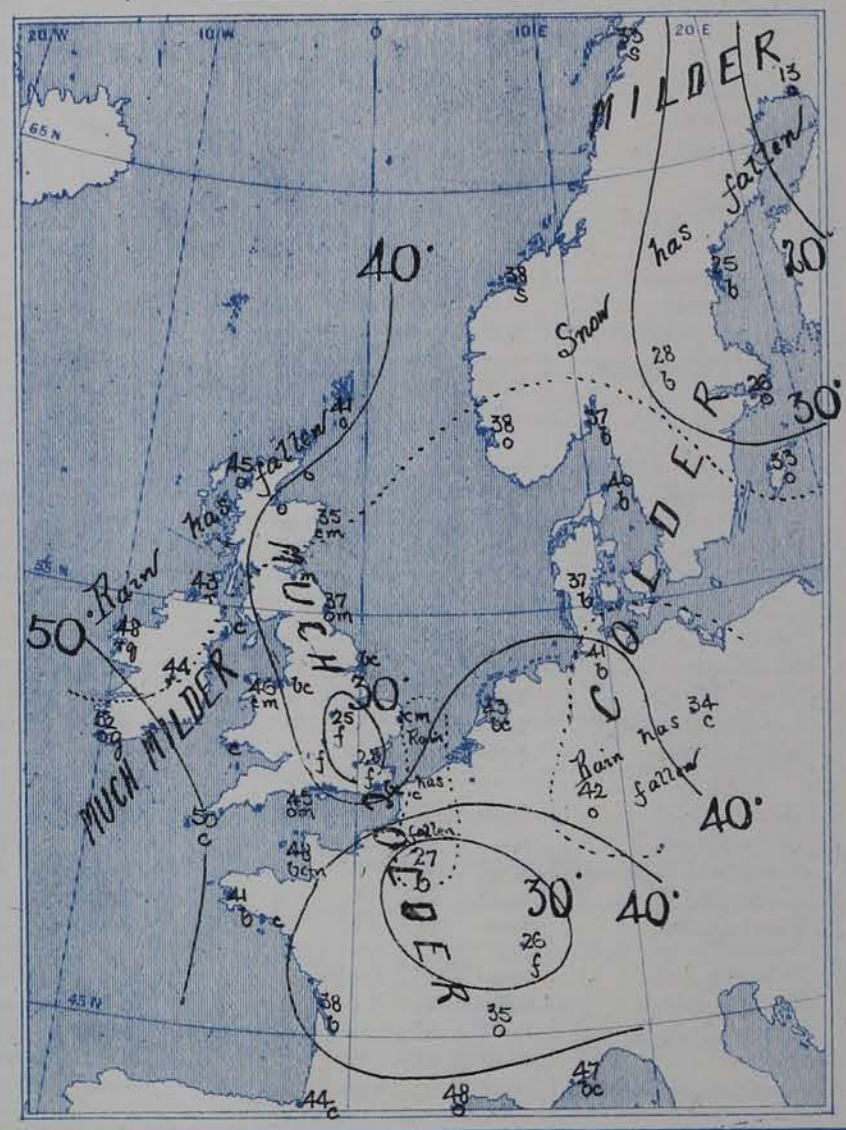


TEMPERATURE AND WEATHER.

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 central and southeastern parts of England and the northeast of France; 30·3 ins and upwards in an anticyclone covering the greater part of Western Europe.
Lowest, 29·8 ins and less over Lapland.
Gradients slight. Barometer falling in the west and north of our Islands, but rising elsewhere.

TEMPERATURE

Highest, (1) 52° at Valencia (Ireland) 51° at Rochepoint and 50° at Scilly; (2) 48° at Perpignan, and 47° at Nice and Lisbon.
Lowest, (1) 13° at Haparanda, and 25° at Hernösand; (2) 25° at Loughborough and Oxford and 28° in London; (3) 26° at Belfast and 27° at Paris.
Sharp frost occurred last night over the inland parts of the United Kingdom, the lowest readings reported being (1) In the screen 22° at Loughborough, 25° at Oxford and 27° in London and at Nairn; (2) On the grass 17° at Loughborough and 21° at Oxford.

WIND

Fresh from the S. or SE. on our western coasts; light to moderate from the SW. in Scotland, and from the NW. on the east coast of England; NW. or N. in Scandinavia and Denmark, with a gale at Stockholm.
Light from the NE. or N. over Central France and from the E. in the west and south of that country.

WEATHER

Foggy over the inlands parts of England, but fine at many of the coast stations; dull in Ireland and Scotland, with rain at Malin Hd, Blacksod Pt and Pennanstown.
Fine over the western parts of the Continent generally, but dull on the Norwegian coasts, with snow at Bodö and Christiansund.
Since yesterday morning a little rain has fallen in the extreme north and northwest of our Islands generally, as well as at Yarmouth, and some stations in the north of France.

SEA

Moderate to smooth generally, but rough at Christiansund and rather rough at Spurn Hd.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 4TH DEC: 1899.

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 9·30 am today to districts 0, 6, 10, 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.	WIND. Force.	WEA.	SEA.
Skudesnaes ...	29·85	42	38	NNW	9	c	5
Sumburgh Head	30·22	40	35	N	5	o	6
Stornoway... ...	30·38	45	42	NNW	2	c	2
Aberdeen	30·35	42	39	NW	3	cq	3
Shields	30·35	45	40	NW	2	bc	2
Malin Head ...	30·42	47	44	NNW	2	o	3
Blacksod Pt. ...	30·42	47	42	SSW	2	bc	o
Holyhead	30·42	48	44	NNW	3	c	2

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Valencia	30·42	47	42	ENE	4	og	4
Scilly	30·41	52	49	E	2	c	1
Jersey	30·43	50	45	NE	3	bc	3
Portland Bill ...	30·44	48	44	NE	2	bc	2
Dungeness ...	30·43	46	43	N	1	b	1
London (Westminster)	30·39	47	42	N	2	b	*
Yarmouth ...	30·29	45	42	WNW	4	c	4
Rochefort ...	30·40	53	51	SSW	3	o	*

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

Weather in morning fine over the United Kingdom as a whole, but showery in the north of Scotland, with sleet and hail at Wick. Fine also over the Netherlands and the greater part of southern Europe, but cloudy or dull in other parts of the Continent, with rain at Christiansund, St. Petersburg, and Nenfahrwasser and snow at Moscow. A little rain falling later in Germany and snow at several of the Scandinavian stations.

Temperature fallen in most countries, but risen in France, Spain and Germany. Morning readings highest 62° at Malta, 61° at Algiers and 59° at Brindisi; above 50° at most of the Mediterranean and Adriatic stations. Lowest 6° at Haparanda, 12° at Uleaborg and Archangel and 18° at Kuopio; below the freezing point over the northern parts of Russia and Scandinavia generally, and also over South Germany, the East of France, and the central parts of Ireland and Spain. Daily maxima below 45° in Scotland and below 50° on all but our extreme south and southwest coasts; thermometer exceeding 55° in the west and south of France, and reaching 61° at Perpignan and Lisbon. Sharp frost occurring over central parts of the United Kingdom at night.

Wind moderate to fresh from the NW. over the greater part of the United Kingdom, and strong to a gale from the same quarter or from W. on the eastern shores of the North Sea. Light from the W. over the central and southern parts of England, moderate to fresh from the same quarter or from SW. over Central Europe generally; NE. over the northern parts of Finland and Scandinavia. Light from the SE. in the west of France; variable over Southern Europe generally. Subsequently shifting to the SE. in Ireland; no decided change occurring elsewhere.

Barometer highest 30·4 in: and upwards and also over the central parts of France and Spain; 30·2 in: and upwards in an anticyclone covering the whole of our Islands, France, and Spain; 30·1 in: and upwards in another system over Turkey and Asia Minor. Lowest 29·2 in: and less, in a well marked depression with its centre over the Gulf of Finland; gradient steep over the eastern parts of the North Sea. Anticyclone and northern depression both moving eastwards later; barometer rising over Western Europe gradually, but beginning to fall again in Ireland.

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, 4th 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	29.86	0	SW	0	b	29.59	-.15	5	3	-8	SW	0	b	*	b	*	44	0	—
	Hernösand	30.01	20	SW	0	b	29.62	-.33	31	30	+6	SW	0	0	*	b	*	31	14	—
	Stockholm	30.13	27	SW	0	b	29.84	-.15	28	27	+2	W	2	b	*	b	*	32	23	—
	Wisby	30.14	35	NE	6	b	29.94	-.01	38	36	+5	N	4	bc	*	b	*	38	28	—
	Karlstad	30.17	29	NNW	4	bc	29.84	-.32	36	34	+8	SW	2	0	*	b	*	*	*	—
	Bodö	29.62	33	ESE	4	S	29.28	-.65	34	32	+1	W	6	S	8	S	*	34	30	—
	Christiansund	29.98	37	NNW	6	r	29.56	-.61	41	39	+3	N	3	r	6	r	*	41	36	0.47
	Skudesnaes	30.27	43	S	4	0	29.60	-.76	47	46	+9	S	6	r	4	c.o	*	47	37	*
	Færder (X'iania Fjord)	30.20	42	NNW	4	bc	29.79	-.41	41	40	+4	SSW	5	r	3	bc	*	42	37	0.04
	The Scaw (Skagen)	30.26	41	NNE	1	b	29.89	-.34	41	40	+1	SW	4	r	1	b	*	45	34	0.04
	Fanö	30.42	41	W	1	b	30.05	-.25	44	42	+7	SW	6	r	*	b	*	45	37	0.04
British Islands	Sumburgh Head	30.00	42	S	3	r	29.68	-.63	45	44	+4	N	3	0	5	0.r	*	45	41	0.52
	Stornoway	29.88	48	SW	7	ru	29.81	-.44	51	50	+6	NNW	4	r	4	r	0.0	52	43	0.65
	Wick	29.96	46	S	4	0	29.76	-.55	50	50	+9	NW	5	r	2	0	*	54	39	0.25
	Nairn	30.01	45	W	1	r	29.81	-.53	52	51	+10	W	2	r	2	r	*	55	31	0.22
	Aberdeen	30.14	38	S	4	ogqr	29.83	-.56	53	50	+18	NNW	3	ogp	3	ogqr	0.0	54	35	0.24
	Leith	30.23	43	SSW	1	r	29.92	-.44	53	52	+16	NNW	4	0	*	r	*	54	35	0.09
	Shields	30.32	39	SW	3	r	29.95	-.51	51	49	+14	NNW	4	c	2	r	*	51	35	0.20
	Spurn Head	30.45	40	SW	4	0	30.12	-.39	45	40	+5	SW	6	c	4	0.r	*	53	39	0.12
	Loughborough	30.46	38	S	3	0	30.22	-.31	44	42	+19	NNW	4	0	*	c.m.o.p.c	*	44	25	0.07
	Malin Head	30.07	49	SW	6	og	30.00	-.24	52	52	+9	NNW	5	df	4	r.o.g	*	53	43	0.13
	Blacksod Pt.	30.11	53	SSW	7	ogqp	30.08	-.14	54	53	+6	SW	6	r	5	o.ogp	*	54	48	0.19
	Donaghadee	30.23	47	SSW	4	rg	30.04	-.34	50	50	+5	SW	4	r	4	gr	*	51	46	0.35
	Liverpool (Bidston)	30.37	40	SSE	2	r	30.15	-.29	50	47	+15	SW	4	0	3	rm	*	50	35	0.14
	Holyhead	30.34	48	S	6	mdg	30.17	-.26	53	51	+7	SW	6	omp	4	gam	*	53	44	0.16
	Parsonstown	30.26	49	SE	1	o	30.17	-.16	51	49	+7	SW	1	0	*	o	0.0	52	43	0.04
	Valencia	30.24	52	SSE	4	o	30.19	-.10	54	53	+2	SSE	3	0 q	3	c.o	1.5	56	51	0.04
	Roche's Point	30.32	53	SSW	5	o	30.25	-.13	52	52	+1	SW	5	m	4	c.o	*	54	50	—
	Pembroke (St. Ann's Hd.)	30.40	50	S	5	c	30.30	-.14	53	52	+4	SW	5	cq	4	o.c	0.0	53	47	—
	Scilly	30.37	51	SSE	5	o	30.29	-.09	52	48	+2	S	2	c	2	o	0.0	53	47	—
	Jersey (St. Aubin's)	30.48	45	SE	3	cq	30.39	-.10	43	40	-5	SSE	3	bm	3	bc.cg	*	48	41	—
	Portland Bill	30.47	47	S	3	o	30.36	-.13	48	45	+3	NNW	4	c	3	o	*	49	44	—
	Dungeness	30.51	41	NNE	1	bc	30.39	-.12	48	45	+17	W	4	o	3	c.bc	*	?48	30	—
	London (Brixton)	30.50	38	SE	0	f	30.31	-.23	44	42	+16	SW	1	c	*	fg.om	0.0	44	28	—
	Oxford	30.46	39	N	1	o	30.30	-.25	44	41	+19	SW	3	o	*	of	*	44	25	—
	Yarmouth	30.46	41	W	2	bc	30.19	-.29	44	42	+6	SW	4	cq	4	c.bc	*	44	36	0.01
France & Netherlands. Germany.	Cuxhaven	30.41	43	SE	0	b	30.21	-.09	41	37	0	SW	4	o	*	b	*	45	36	—
	Berlin	30.42	34	NW	3	b	30.34	-.02	29	28	-5	SW	2	b	*	b	*	41	28	—
	Wiesbaden	*	*	*	*	*	30.44	+.03	33	32	-9	N	2	f	*	*	*	45	30	—
	Munich	30.52	32	W	3	c	30.47		23	22		SSE	2	b	*	c	*	37	23	0.02
	The Helder	30.47	43	NW	1	bc	30.18	-.21	47	44	+4	SW	5	o	4	bc	*	48	37	—
	Brussels	*	*	*	*	*	30.41		36	34		SW	2	bc	*	b	*	44	33	—
	C. Gris Nez	30.47	43	S	1	o	30.34	-.13	47	44	+4	W	5	o	5	o	*	50	39	—
	Paris	30.54	35	NE	1	b	30.45	-.05	30	30	+3	ESE	1	f	*	b	*	43	28	—
	Brest	30.44	46	ESE	2	o	30.37	-.07	42	41	+1	ESE	2	c	2	o	*	48	37	—
	Lorient	30.45	43	SE	3	c	30.39	-.06	37	36	-4	ESE	4	c	2	c	*	47	36	—
	Rochefort	30.48	42	E	3	b	30.41	-.03	34	33	-4	E	3	b	*	b	*	46	32	—
	Belfort	30.52	33	ENE	4	b	30.45	-.02	27	27	+1	ENE	3	f	*	b	*	32	24	—
	Lyons	30.45	37	N	3	b	30.48	+.17	29	29	-6	E	1	f	*	b	*	42	29	—
	Nice	30.56	48	E	2	b	30.33	+.29	45	41	-2	E	4	b	1	b	*	59	41	—
	Perpignan	30.26	52	NW	3	b	30.37	+.16	31	27	-17	SW	1	bc	*	b	*	63	27	—
	Biarritz	30.32	48	E	3	b	30.27	-.05	34	33	-10	ESE	3	f	2	b	*	54	34	—
Span. Pen.	Corunna																*			
	Lisbon	30.29	56	NNW	3	o	30.27	-.02	45	44	-2	NNE	4	bc	*	o	*	61	45	—
	Azores (P. Delgada)																*			

For Explanation of Columns, see bottom of last page. *Erratum,—The amount of Rainfall at Dungeness in Saturday's report should read "1.00".*

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

Bright Sunshine yesterday Southport 0 0 *hrs.*

WEATHER CHARTS

FOR Monday, 4th December, 1899.

BAROMETER, WIND AND SEA.

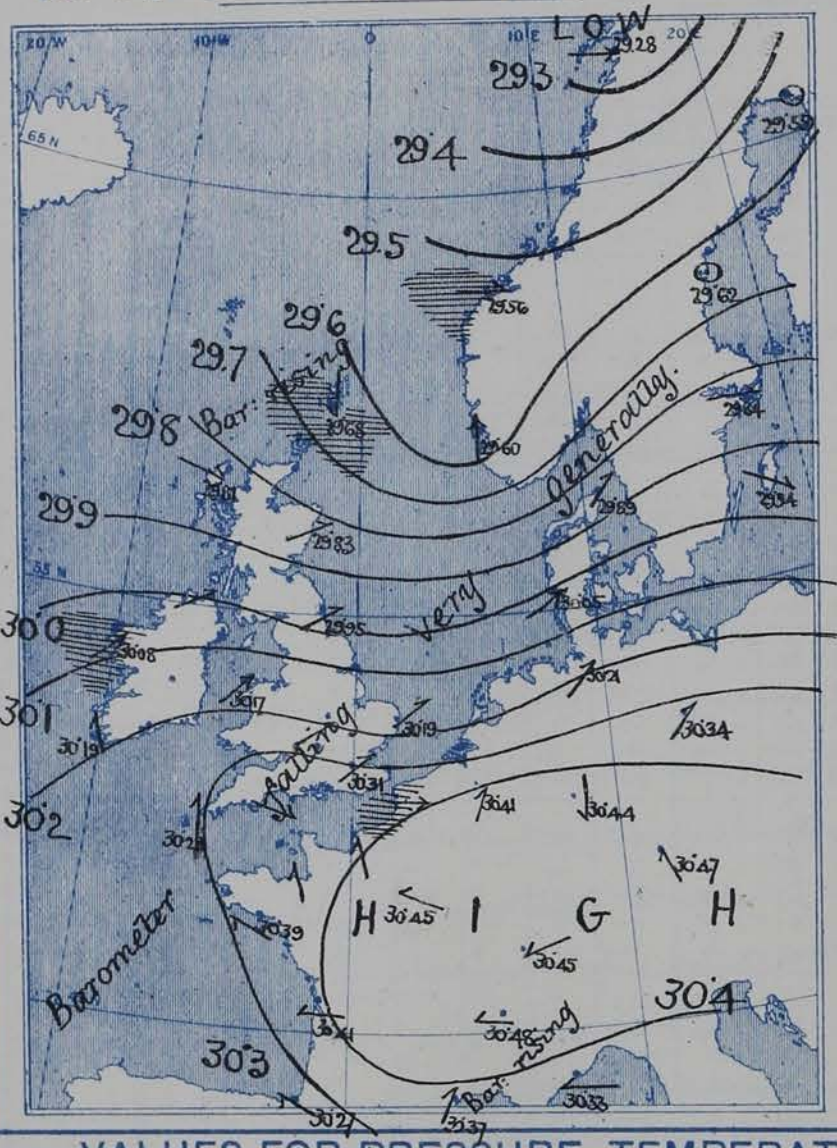
BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show 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*

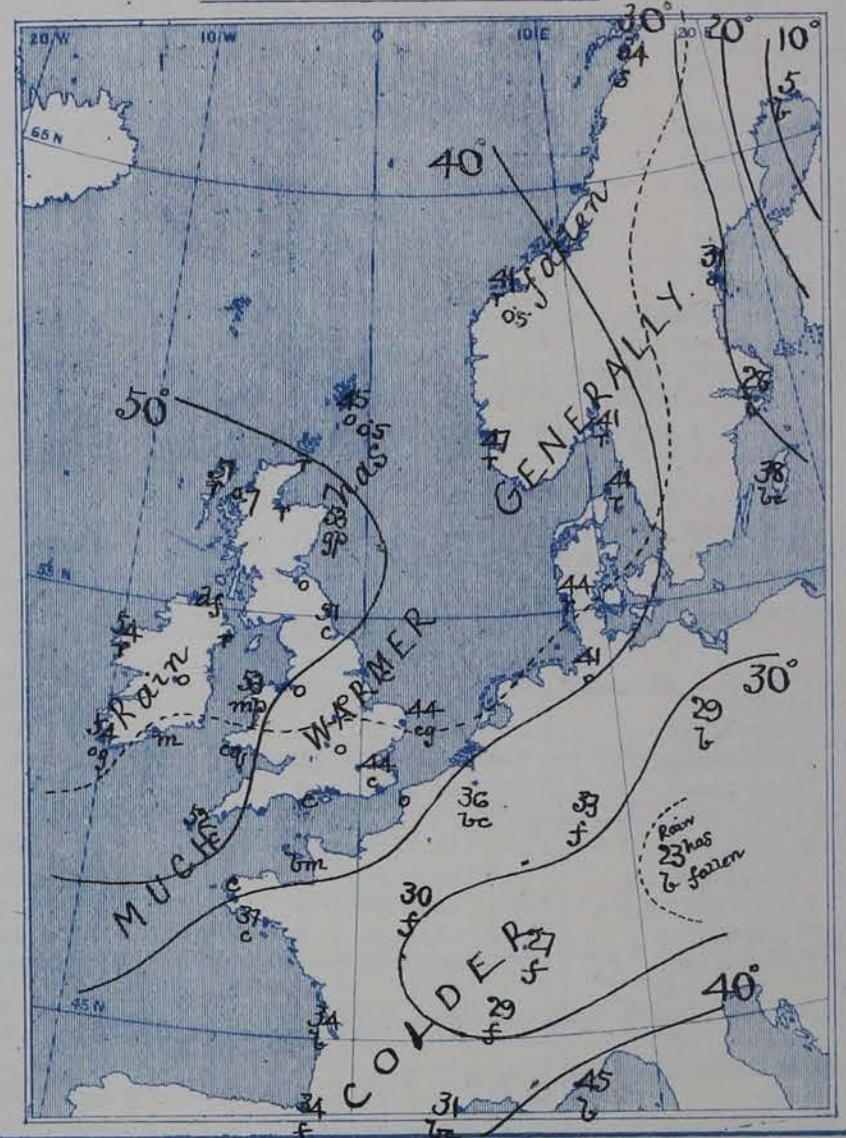


TEMPERATURE AND WEATHER.

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.	TEMPERATURE OF AIR. 1871–95.								RAINFALL	BRIGHT SUNSHINE,	
		Means of				Absolute Extremes.						
	Means, 1871–95.	Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum.	Years.	Minimum.	Years.	Means, 1866—95.	Means, 1881—95. 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, 30·4 in: and upwards in an anticyclone lying over France, Belgium, and the more southern parts of Germany.
Lowest, 29.3 in: and less, in a depression off the northern parts of the Norwegian coasts: 29·6 in: and less, in a secondary system off the southern end of Norway.
Gradients moderate to rather steep over the northern parts of our area, slight in the south.
Barometer falling in most places, but rising in the extreme north of Scotland.

TEMPERATURE

Highest, 54° at Blacksod Point and Valencia (Ireland), and 53° at Aberdeen, Leith, Holyhead, and Pembroke.
Lowest, (1) 5° at Haparanda and 28° at Stockholm; (2) 23° at Munich, 27° at Belfast, 29° at Berlin and Leyden.
Since yesterday morning a considerable rise has taken place over Great Britain, the change amounting to as much as 19° at Nairn, Loughborough and Oxford.

WIND

Moderate to strong from the SW. over the greater part of our Islands and also over the Netherlands, Denmark, North Germany, and the south of Scandinavia, but NW. or N. in the extreme north of Scotland, and light from SSE. at Valencia (Ireland).
Light from the E. or SE. over France and South Germany; calm in the Gulf of Bothnia.

WEATHER

Fair in the south and east coasts of England, but dull in other parts of our Islands, with rain at many of the northern and northwestern stations; rain is also falling in Norway and Denmark and snow at Bodö.
Fine over the greater part of France, Germany, the Netherlands and Sweden, but foggy over South Germany, and Central France.
Rain fell yesterday in Ireland and the northern parts of Great Britain, the largest amounts reported being 0·7 in: at Stornoway and 0·5 in: at Lerwick Head.

SEA

Moderate or slight generally, but rough at Christiansund, and rather rough at Lerwick Hd., Blacksod Point, and Calf Fris Neg.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone which advanced over our Islands on Saturday last has moved southeastwards, and is gradually becoming reduced in height. A depression moved northeastwards yesterday along our extreme northwestern and northern coasts, but is now passing away towards Norway.

The barometer is still falling, however, in the west with a SSE wind at Valencia (Ireland) so that further depressions are probably approaching. The indications are in favor of mild unsettled weather over our Islands generally, with occasional gales or very strong winds in the west and north.

FORECASTS

For the 24 hours ending at NOON on 5TH DECEMBER 1899.

DISTRICTS.		FORECASTS.
⚑ 0	SCOTLAND NORTH	NW. to SW. or S. winds; mild, unsettled, rain at times.
⚑ 1	SCOTLAND EAST	
2	ENGLAND N.E.	Same as No 5.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	SW. to S. winds, freshening; fair at first, some rain later, milder.
⚑ 6	SCOTLAND WEST	SW. to S. winds, increasing in force; dull, some rain.
7	ENGLAND N.W.	
8	ENGLAND S.W.	
⚑ 9	IRELAND NORTH	S. winds, increasing in force, dull, squally, some rain.
⚑ 10	IRELAND SOUTH	
	WARNINGS	The South Cone was hoisted yesterday in districts 0, 6, 10 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 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.	WIND. Force.	WEA.	SEA.
Skudesnaes ...	30·87	43	41	ENE	1	c	3
Sumburgh Head	30·14	43	40	S	3	o	5
Stornoway... ...	30·05	47	46	SW	6	r	6
Aberdeen							
Shields							
Malin Head ...	30·11	45	45	SSW	6	r	4
Blacksod Pt.. ...	30·13	52	51	SSW	6	o	5
Holyhead							
Valencia							
Scilly	30·39	51	48	SSE	5	c	3
Jersey	30·51	47	43	ESE	3	bc	3
Portland Bill ...							
Dungeness ...	30·51	43	42	N	2	c	2
London (Westminster)							*
Yarmouth ...	30·49	44	43	WNW	1	c	3
Rochefort ...	30·46	46	41	E	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 26TH NOV: TO THE 2ND DEC: 1899.

During the greater part of the week a large anticyclone covered the whole of Central and Southern Europe; its northwestern borders extending over a considerable portion of the United Kingdom. In the regions exposed to its influence the weather was mostly fair and dry, though cloudy and foggy in many places, the thermometer being high for the time of year in these Islands (where the wind was chiefly from the SW^ly or W^ly) but low in France and some parts of Germany. Over northern Europe the conditions were affected by large depressions which continued to advance over Scandinavia from the westward, the wind being often strong to a gale from the W^d (SW to NW) with frequent falls of rain or snow. The influence of these disturbances was felt also in the north of Scotland, where rain fell almost every day, and the W^n wind occasionally blew with considerable force.

Towards the close of the week the anticyclone began to disperse and on the 1st December some V shaped secondary depressions advanced eastwards over our Islands and the North Sea, these disturbances producing rain in most parts of northwestern Europe. As they passed away to the eastward a new anticyclone spread over the United Kingdom from the Atlantic, and the wind consequently veered to the NW^ly or N^ly, with colder weather in most districts,— a very sharp frost being experienced over Central England on the night of Dec^r 2nd. By this time the barometer was beginning to fall again in the extreme west, with freshening S^ly winds and rain.

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 5th 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.)					THIS MORNING. (See note at bottom of last page.)									PAST 24 HOURS				
		Baron.	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	29·11	18	SSE	6	s	29·37	−·26	15	14	+10	ENE	4	c		s		21	0	0·28
	Hernösand	29·13	30	NE	4	o	29·10	−·52	24	23	−1	N	6	o		o		34	12	—
	Stockholm	29·16	35	2	o	r	29·05	−·79	24	23	−4	NW	4	b		r		36	24	0·24
	Wisby	29·17	38	WSW	6	o	29·05	−·89	33	30	−5	N	10	o		o		39	32	—
	Karlstad	29·31	33	SW	6	o	29·34	−·50	32	?	−4	NW	8	b		o		?	?	0·04
	Bodö	29·31	25	E	2	b	29·41	+·13	21	19	−13	E	2	b	1	b		34	18	—
	Christiansund ...	29·38	34	WNW	9	s	29·65	+·09	35	33	−6	NW	8	s	7	s		41	34	0·32
	Skudesnaes ...	29·80	38	NW	9	o	29·86	+·26	39	35	−8	NNW	9	c	5	o		47	36	?
	Færder (X'iania Fjord)	29·39	41	WNW	5	b	29·51	−·28	39	35	−2	NW	6	b	3	b		43	28	0·12
	The Scaw (Skagen)	29·35	45	N	8	b	29·53	−·36	42	36	+1	N	8	bc	3	b		46	39	0·32
	Fanö	29·72	44	WNW	8	bc	29·85	−·20	41	37	−3	WNW	8	b		bc		48	39	0·47
British Islands.	Sumburgh Head ...	30·01	36	N	4	o	30·09	+·41	36	32	−9	N	3	o	5	c, o		46	33	—
	Stornoway	30·05	45	ENE	4	o	30·10	+·29	38	37	−13	NE	3	o	3	o	0·0	51	35	0·10
	Wick	30·06	48	NW	2	o	30·18	+·42	31	30	−19	NW	1	o	6	o		63	29	0·04
	Nairn	30·07	44	E	1	r	30·16	+·35	35	33	−17	SE	1	b	1	r		52	32	0·34
	Aberdeen	30·02	45	N	3	o	30·17	+·34	34	32	−19	NNW	2	cm	2	og, p	0·0	54	34	0·03
	Leith	29·95	52	W	3	o	30·14	+·22	42	40	−11	E	2	o		o		55	40	0·08
	Shields	29·96	52	WSW	2	o	30·14	+·19	46	44	−5	NE	1	o	3	o, r		53	44	0·11
	Spurn Head ...	29·98	51	W	6	c	30·13	+·01	46	45	+1	NNE	1	o	3	c		52	44	—
	Loughborough ...	30·12	52	W	4	r	30·14	−·08	49	49	+5	E	1	ogfd		c, or, df		54	44	0·07
	Malin Head ...	30·03	52	W	2	f	30·04	+·04	52	52	0	SSW	1	r	2	f		53	51	0·30
	Blacksod Pt. ...	30·06	54	WSW	5	r	30·02	−·06	53	52	−1	SSW	5	c	4	rm		54	52	0·18
	Donaghadee ...	30·05	52	W	3	cpq	30·08	+·04	51	51	+1	SE	3	r	4	cpq, d		52	49	0·29
	Liverpool (Bidston)	30·10	50	WSW	5	r	30·13	−·02	50	50	0	WSW	1	r	?	c, r		56	48	0·30
	Holyhead	30·13	53	WSW	2	r	30·11	−·06	52	52	−1	SSW	1	df	1	m, rf		54	51	0·44
	Parsonstown ...	30·19	52	SSW	1	o	30·09	−·08	50	49	−1	SSE	1	o		od	0·0	53	48	0·08
	Valencia	30·18	56	SSE	4	o	30·07	−·12	54	51	0	SSE	2	og	3	q	0·0	55	53	0·02
	Roche's Point ...	30·20	54	W	3	o	30·15	−·10	53	52	+1	SW	3	m	3	o		54	52	—
	Pembroke (St. Ann's Hd.)	30·21	54	WSW	4	r	30·17	−·13	53	52	0	WSW	4	o	4	r	1·8	54	52	0·05
	Scilly	30·24	53	SW	3	b	30·19	−·10	53	50	+1	SSW	3	c	2	bc, b	6·1	58	52	—
	Jersey (St. Aubin's) ...	30·31	42	SSE	1	bm	30·26	−·13	51	49	+8	WSW	3	cm	3	bm		51	39	—
	Portland Bill ...	30·26	51	WNW	5	bc	30·22	−·14	52	50	+4	NW	4	o	3	o, bc		52	46	—
	Dungeness	30·19	48	W	5	bc	30·15	−·24	49	49	+1	WNW	2	o	2	c, bc		53	47	0·04
	London (Brixton) ...	30·19	46	W	1	cm	30·16	−·15	49	49	+5	2	o	afq		b, or	3·1	50	42	0·06
	Oxford	30·19	48	SW	1	r	30·16	−·14	50	49	+6	SW	1	od		bc, od		51	43	0·05
	Yarmouth	30·04	48	WNW	4	r	30·12	−·07	47	46	+3	N	2	cf	4	b, r		49	41	0·04
Germany.	Cuxhaven	29·73	45	WSW	6	r	29·90	−·31	43	39	+2	NW	6	bc		r		48	41	0·24
	Berlin	29·75	35	W	5	r	29·75	−·59	36	34	+7	WNW	4	b		r		45	?	0·24
	Wiesbaden	°	°	°	°	°	30·05	−·39	42	41	+9	SW	4	o		°		48	33	—
	Munich	30·21	34	W	5	°	30·09	−·38	35	34	+12	W	9	s		o		36	23	0·16
France & Netherlands.	The Helder ...	29·94	51	W	6	o	30·03	−·11	46	42	−1	N	3	c	3	o		58	46	—
	Brussels	°	°	°	°	°	30·18	−·26	46	46	+10	W	1	r		o		46	35	0·28
	C. Gris Nez ...	30·20	49	W	6	c	30·18	−·18	50	49	+3	NNW	1	m	1	c		50	44	—
	Paris	30·31	36	S	3	o	30·21	−·24	35	34	+5	S	2	r		o		44	30	—
	Brest																			
	Lorient	30·34	37	E	1	bc	30·30	−·09	35	34	−2	2	o	f	2	bc		41	32	0·84
	Rochefort	30·37	38	ENE	1	b	30·33	−·08	36	34	+2	E	2	m		b		46	32	—
	Belfort	30·35	33	W	3	m	?	?	33	29	+6	W	4	m		m		40	27	—
	Lyons	30·41	30	SE	1	b	30·35	−·13	27	26	−2	NNW	1	c		b		35	24	—
	Nice	30·32	47	E	2	b	30·13	−·20	42	38	−3	E	2	c	2	b		55	41	—
	Perpignan	30·35	37	SE	1	b	30·28	−·09	31	28	0	SW	2	b		b		55	31	—
	Biarritz	30·25	41	ENE	2	bc	30·25	−·02	42	39	+8	S	1	b	2	bc		46	34	—
Span. Pen.	Corunna																			
	Lisbon	30·34	53	NNE	3	b	30·34	+·07	47	45	+2	NNE	4	b	6	b		57	48	—
	Azores (P. Delgada)	29·81	62	W	3	bc	29·92	+·32	60	58	−3	WNW	3	bc	4	bc		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 recorded on the Tower of the Wesleyan Training College, Westminster*

Bright Sunshine yesterday Southport 0·3 *hrs.*

WEATHER CHARTS

FOR Tuesday, 5th December, 1899.

BAROMETER, WIND AND SEA.

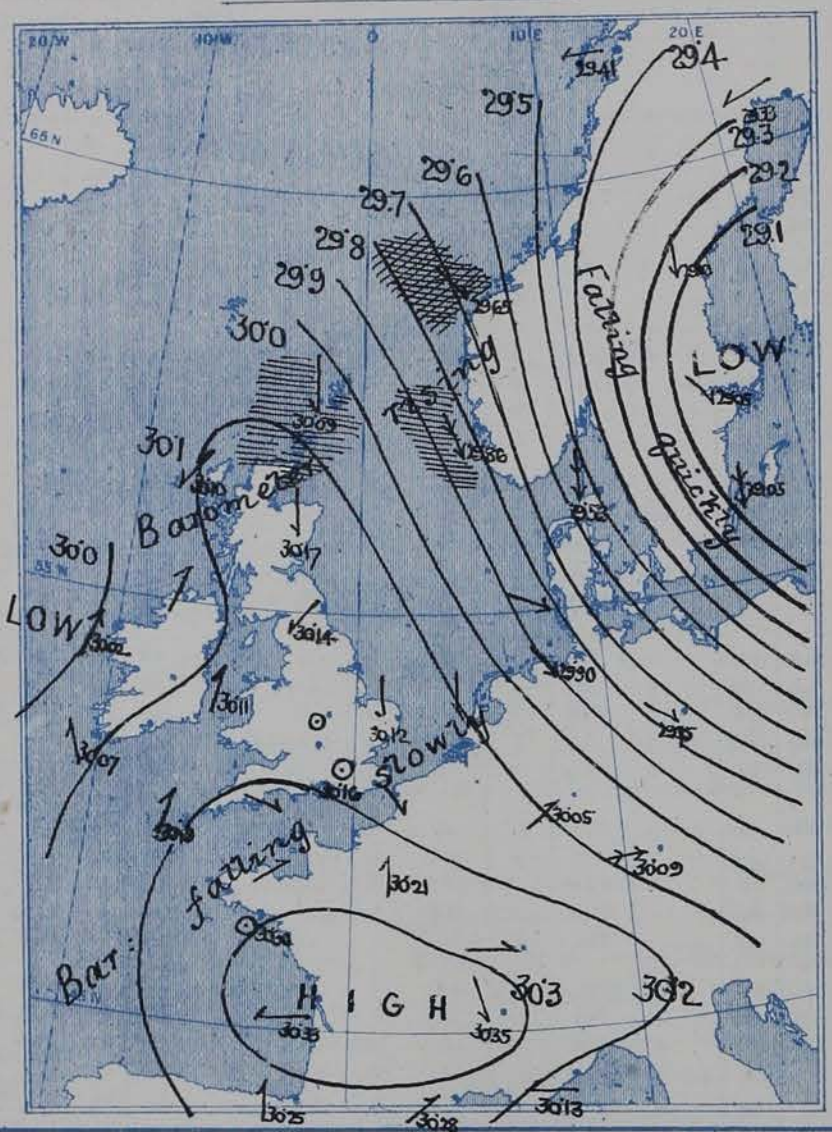
BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show 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* ▓

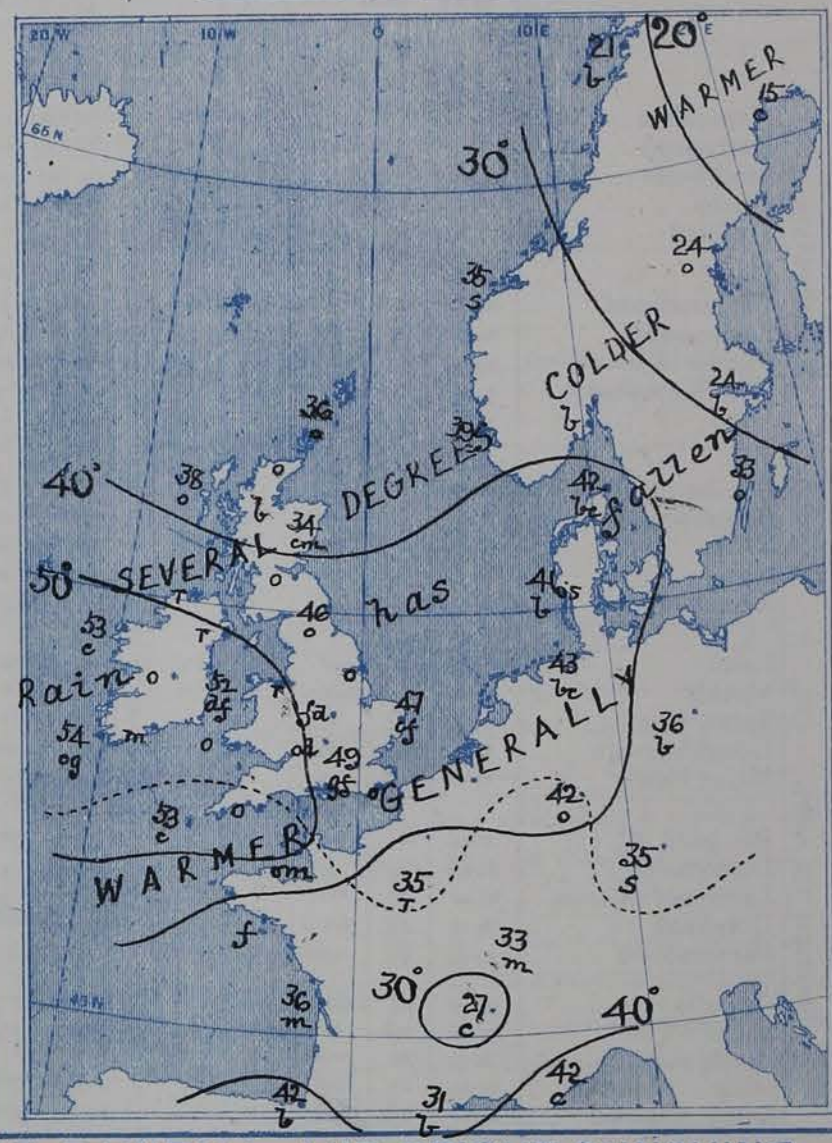


TEMPERATURE AND WEATHER.

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, 01	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 Westminste.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.3 ins. and upwards over the central parts of France; 30.1 ins. and upwards in a ridge extending thence over the whole of Gt. Britain and the E. of Ireland
Lowest 29.1 ins. and less in a depression over the Gulf of Finland and the neighbouring parts of the Baltic and the Gulf of Bothnia.
Gradients slight over our Islands and France, steep over Denmark, N. Germany and all the more S. parts of Scandinavia. Barometer rising in the N. and E. of our Islands & also on the E. shores of the North Sea, falling elsewhere.

TEMPERATURE

Highest 54° at Valencia (Ireland), 53° at Blacksod Point, Roches Pt. and Scilly, and 52° at Malin H., Holyhead and Portland Bill.
Lowest (1) 15° at Haparanda, 21° at Bodö, and 24° at Hernösand and Stockholm; (2) 27° at Lyons, and 31° at Perpignan; (3) 31° at Wick, and 34° at Aberdeen.
During yesterday the thermometer rose to 50° and upwards over nearly the whole of the United Kingdom to 55° at Leith, Liverpool and Valencia (Ireland), and to 58° at Scilly.

WIND

Light from the N.wd. on the north and east coasts of Gt. Britain; strong to a gale from the same quarter or from NW. over Denmark and the greater part of Scandinavia; W. in Germany.
Light to moderate from the S.wd. on our western coasts, and from the W.wd. in the English Channel; light from between S. and E. over the greater part of France.

WEATHER

Dull over NW. Europe as a whole, with rain in the N. of Ireland, and fog and drizzle at many of the English stations; snow was falling at Christiansund.
Fine in Denmark, N. Germany and the S of Scandinavia, dull in S. Germany, with snow at Munich. Foggy or misty in the W. of France; fine in the S. of France.
Rain fell yesterday in all but the extreme S.W. parts of the United Kingdom, as well as at most of the Scandinavian, Danish and German stations.

SEA

High at Christiansund, and rough or rather so off the W. of Norway and the NE. of Scotland generally but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depressions noticed yesterday off the Norwegian coasts have travelled SE.wds and the barometer has risen briskly in the N. An anticyclonic ridge now lies over Gt. Britain, and for the present there are no very decided indications of any change in the weather beyond perhaps a fall of temperature over England.

FORECASTS

For the 24 hours ending at NOON on 6TH DECEMBER 1899.

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	N.ly to variable breezes; fair, cold.
1	SCOTLAND EAST	
2	ENGLAND N.E.	Light breezes, chiefly N.ly; fair generally, colder.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	Light variable airs, dull, misty or foggy, rain locally.
5	ENGLAND SOUTH	
6	SCOTLAND WEST	E.ly or SE.ly winds, light; fair, cold.
7	ENGLAND N.W.	S.ly winds, light or moderate; dull, some rain.
8	ENGLAND S.W.	
9	IRELAND NORTH	
10	IRELAND SOUTH	
	WARNINGS	None issued.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Skudesnaes ...	29.59	45	44	NW	2	o	3
Sumburgh Head	29.92	37	34	N	4	c	5
Stornoway... ...	29.95	49	48	ENE	2	o	2
Aberdeen	29.91	48	46	NW	3	og	3
Shields	29.93	53	51	WSW	3	o	2
Malin Head ...	30.02	52	52	W	4	f	4
Blacksod Pt.. ...	30.06	54	53	WSW	5	rw	5
Holyhead	30.14	53	52	SW	4	orw	3
Valencia	30.18	55	54	SSE	4	o	4
Scilly	30.25	55	52	S	3	bc	2
Jersey	30.38	49	43	SE	3	b	3
Portland Bill ...	30.29	50	47	W	4	o	3
Dungeness ...	30.29	50	46	W	5	e	3
London (Westminster)	30.19	52	47	SW	2	b	*
Yarmouth ...	30.05	49	46	WSW	5	b	3
Rochefort ...	30.39	44	40	ENE	1	b	*

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

Weather in morning fair on the S. and E. coasts of England, but all in other parts of our Islands, with rain at many of the N^rn and NW^rn stations. Rain falling also in Norway and Denmark, and snow at Bodo and Archangel. Fine over central and S^rn Europe as a whole, but with fog in many parts of France and Germany. Rain falling later in all but the extreme S^rn parts of the United Kingdom and also over the Netherlands, Germany and the NE. of France.

Temperature rose in the NW^rn and N^rn countries, - very quickly over Gt. Britain, fallen elsewhere. Morning readings highest 68° at Palermo, 60° at Malta and Algiers, and 57° at La Calla, above 50° at most of the Mediterranean stations and also in all the more W^rn and N^rn parts of the United Kingdom. Lowest 1° at Ulealorg, 5° at Haparanda, 12° at Archangel, and 15° at Helsingfors and St. Petersburg and below the freezing point over E^rn and central Europe generally. Rising during day to between 50° and 55° in nearly all parts of the United Kingdom and to 58° at Scilly; remaining below 50° over the greater part of France, and not exceeding 35° at Lyons.

Wind moderate to strong from the SW^wd over the greater part of our Islands and also over the Netherlands, Denmark, N. Germany and the south of Scandinavia, but NW^rly in the north of Scotland, and light from SSE. at Valencia (Ireland). Light from the E^wd or SE^wd in France, and from the NE^wd or N^wd in Spain; N. also over Greece and S^rn Italy, and strong in force at Brindisi. Calm over the Gulf of Bothnia; light from the NW^wd in Russia. Subsequently veering to the W^wd over England and Ireland; shifting to the N^wd or NE^wd in Scotland.

Barometer highest 30.4 ins. and upwards over France and the central and S^rn parts of Germany; 30.2 ins. and upwards in an anticyclone covering the whole of central and S^rn Europe and extending over the S^rn parts of our own Islands. Lowest 29.3 ins. and less in a depression off the N^rn part of the Norwegian coasts, 29.6 ins. and less in a secondary disturbance off the SW. of Norway. Both depressions moving SE^wd. Later and barometer rising briskly in the extreme N.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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

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DAILY WEATHER REPORT

for 8 a.m. on Wednesday, 6th 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.) Baron. 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	29.67	11	NE	0	0	29.99	+.66	13	11	− 2	NNE	2	b	•	0	•	19	3	—
	Hernösand	29.71	24	N	4	0	29.93	+.83	23	19	− 1	N	4	0	•	0	•	30	18	0.04
	Stockholm	29.43	31	NW	4	S	29.78	+.73	23	22	− 1	NW	6	S	•	S	•	34	23	0.04
	Wisby	29.33	34	N	9	S	29.71	+.66	30	29	− 3	N	8	S	•	S	•	34	25	0.04
	Karlstad	29.64	31	NNW	8	b	29.97	+.63	23	21	− 9	NW	2	b	•	b	•	•	•	—
	Bodö	29.77	22	E	2	c	30.01	+.60	23	21	+ 2	ENE	2	b	1	c	•	25	18	—
	Christiansund ...	29.93	35	W	5	S	30.05	+.40	37	34	+ 2	WSW	3	r	5	S	•	37	32	0.08
	Skudesnaes ...	29.87	37	N	2	bc	30.01	+.15	35	33	− 4	E	2	b	2	c.bc	•	39	34	•
	Færder (X'iania Fjord)	29.68	40	NW	6	b	29.99	+.48	35	?	− 4	NNE	4	b	2	b	•	41	32	—
	The Scaw (Skagen)	29.73	42	N	4	b	29.97	+.44	33	31	− 9	ENE	2	b	0	b	•	45	32	—
	Fanö	29.90	40	WNW	4	b	30.00	+.15	33	31	− 8	NW	1	b	•	b	•	43	34	—
British Islands.	Sumburgh Head ...	30.06	35	N	1	0	29.94	−.15	41	37	+ 5	SE	4	0	5	0	•	41	34	0.01
	Stornoway	29.90	43	SE	4	r	29.68	−.42	48	47	+ 10	SE	4	r	4	0.r	0.0	48	35	0.10
	Wick	30.03	42	SE	1	0	29.71	−.41	45	44	+ 14	SE	4	ru	6	0	•	51	29	0.15
	Nairn	30.00	38	E	1	0	29.75	−.41	45	45	+ 10	NE	0	r	1	c	•	45	32	0.56
	Aberdeen	30.07	36	NW	1	0q	29.85	−.32	44	44	+ 10	SSE	5	0q	6	bcm.0q	0.6	44	33	0.55
	Leith	30.04	45	E	2	r	29.78	−.36	47	46	+ 5	E	1	0	•	r	•	47	40	0.37
	Shields	30.06	46	SE	1	r	29.86	−.28	47	47	+ 1	SE	3	a	3	0ap.r	•	48	44	0.48
	Spurn Head ...	30.08	46	SE	3	r	29.94	−.19	47	46	+ 1	SSE	3	r	3	rm	•	50	44	0.50
	Loughborough ...	30.10	49	NW	1	r	29.92	−.22	47	47	− 2	SE	1	om	•	qfr.0p	•	50	47	0.30
	Malin Head ...	29.85	49	S	5	r	29.65	−.39	53	53	+ .	SE	2	0q	2	r	•	53	50	0.20
	Blacksod Pt. ...	29.80	55	SSW	6	0	29.62	−.40	53	52	0	S	4	rm	4	cq.0	•	59	51	0.12
	Donaghadee ...	29.98	50	SSE	2	r	29.74	−.34	52	52	+ 1	SSE	1	0	5	r	•	52	49	0.23
	Liverpool (Bidston)	30.06	51	S	1	r	29.82	−.31	49	47	− 1	SE	3	0	?	r	•	53	48	0.15
	Holyhead	30.04	52	SW	3	0qmpd.	29.78	−.33	52	52	0	S	3	fa	2	0	•	53	50	0.06
	Parsonstown ...	29.93	52	SE	2	r	29.69	−.40	53	52	+ 3	S	1	0	•	r	0.0	55	49	—
	Valencia	29.88	56	SSE	4	om	29.65	−.42	53	53	− 1	SSW	3	0	4	0q.om	0.0	57	53	0.14
	Roche's Point ...	29.98	53	S	4	om	29.70	−.45	54	54	+ 1	SW	4	f	4	om	•	54	52	0.12
	Pembroke (St. Ann's Hd.)	30.10	53	SSW	4	0	29.86	−.21	55	55	+ 2	SSW	4	rm	4	0	0.0	55	52	0.10
	Scilly	30.07	54	SSE	4	0	29.84	−.35	56	56	+ 3	SSW	5	m	3	c.0	0.3	56	50	0.32
	Jersey (St. Aubin's) ...	30.19	50	SW	3	cq	30.02	−.27	54	52	+ 3	SW	4	omr	3	0.c.q	•	54	49	0.01
France & Netherlands. Germany.	Portland Bill ...	30.17	52	NNW	2	bc	29.97	−.25	53	52	+ 1	SW	4	fa	3	0.bc	•	54	50	0.01
	Dungeness	30.12	50	NNW	1	0	30.00	−.15	51	50	+ 2	NE	0	0	1	f.0	•	54	49	0.15
	London (Brixton) ...	30.12	51	E	0	omr	29.96	−.20	49	48	0	S	1	0	•	or.ov	0.0	52	47	0.20
	Oxford	30.10	51	NSW	2	r	29.93	−.23	49	48	− 1	SE	1	0qa	•	0qa	•	52	47	0.17
	Yarmouth	30.10	46	ENE	1	0	29.95	−.17	46	45	− 1	ESE	1	rf	4	c.or	•	48	44	0.31
	Cuxhaven	29.92	42	NW	6	b	29.95	+.05	41	39	− 2	N	1	b	•	qrh.b	•	45	37	0.04
	Berlin	29.77	37	NW	5	b	29.89	+.14	33	32	− 3	NNW	3	b	•	b	•	41	32	—
	Wiesbaden	•	•	•	•	•	30.05	.00	41	40	− 1	N	2	r	•	•	•	45	39	—
	Munich	-	-	-	-	-	30.05	−.04	36	36	+ 1	N	4	r	•		•	37	34	0.39
	The Helder ...	30.09	45	NW	2	b	30.00	−.07	42	41	− 4	E	0	r	•	b	•	46	43	0.04
	Brussels	•	•	•	•	•	30.01	−.14	48	48	+ 2	NW	1	r	•	r	•	49	44	0.28
	C. Gris Nez ...	30.10	51	W	1	f	30.03	−.13	50	50	0	N	2	r	2	f	•	54	45	0.35
	Paris	30.21	43	SW	2	c	30.11	−.10	39	39	+ 4	S	2	c	•	c	•	45	35	0.24
	Brest	30.16	52	S	3	b	30.01	-	55	55	-	SW	3	f	3	b	•	54	48	-
	Lorient	30.22	48	SSE	2	f	30.06	−.24	47	47	+ 12	SW	2	0	4	f	•	48	35	—
	Rochefort	30.31	43	SSE	2	b	30.21	−.12	40	39	+ 4	SSE	3	bc	•	bc.b	•	46	36	—
	Belfort	30.25	34	NSW	1	f	30.11	?	36	36	+ 3	N	1	r	•	f	•	37	33	0.12
	Lyons	30.28	41	NNW	1	b	30.23	−.12	40	35	+ 13	N	1	0	•	0	•	46	27	—
	Nice	29.97	48	E	1	bc	29.92	−.21	46	42	+ 4	E	2	c	1	bc	•	55	42	—
	Perpignan	30.18	57	NW	3	b	30.12	−.16	59	52	+ 28	W	2	b	•	b	•	68	31	—
	Biarritz	30.22	50	E	2	b	30.14	−.11	40	40	+ 7	E	0	b	0	b	•	57	39	—
Span. Pen.	Corunna																•			
	Lisbon	30.32	58	N	2	c	30.30	−.04	53	50	+ 6	N	3	c	•	c	•	59	49	-
	Azores (P. Delgada)	30.26	62	N	4	0	30.39	+.47	59	55	− 1	N	3	bc	3	0	•	66	57	• 12

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 recorded on the Tower of the Wesleyan Training College, Westminster*

Bright Sunshine yesterday Southport 0.0 hrs.

WEATHER CHARTS

FOR Wednesday, 6th December, 1899.

BAROMETER, WIND AND SEA.

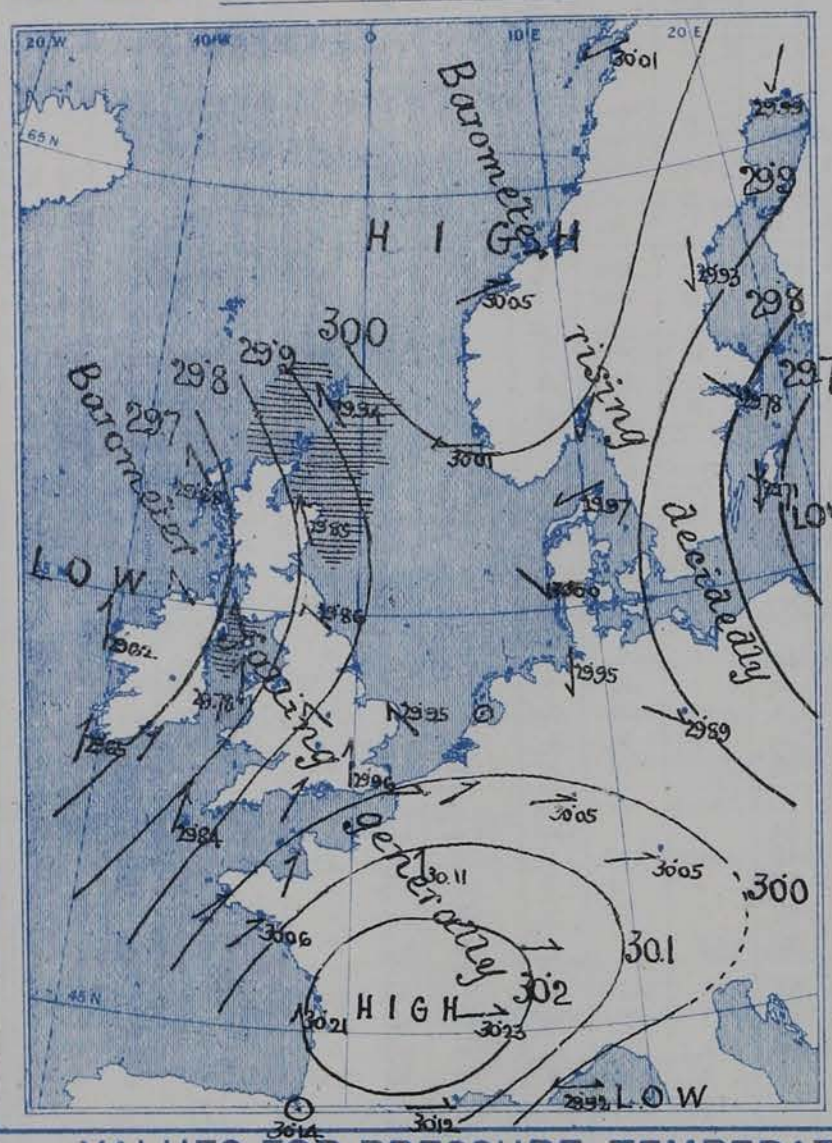
BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show 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* ▓

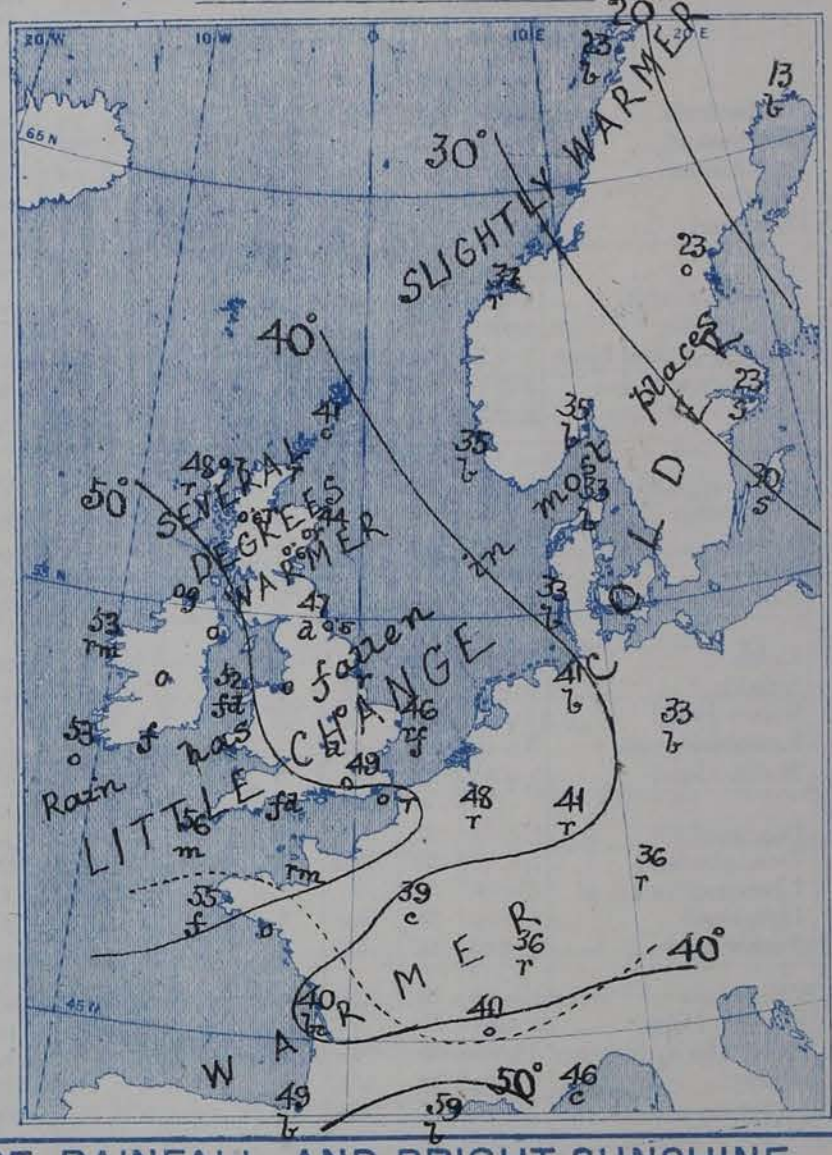


TEMPERATURE AND WEATHER.

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.	TEMPERATURE OF AIR. 1871-95.								RAINFALL	BRIGHT SUNSHINE,	
		Means of				Absolute Extremes.						
	Means, 1871-95.	Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum.	Years.	Minimum.	Years.	Means, 1866—95.	Means, 1881—95. 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, 30·1 in: to 30·3 in: in an anticyclone lying over the greater part of France and the Spanish Peninsula; 30·0 in: and upwards in another system lying over and to the southward of Norway.
Lowest, 29·7 in: and less, in a large depression with its centre to the westward of our Islands and also in another disturbance over the northern part of the Baltic.
Gradients very irregular, but moderate or slight generally.
Barometer falling in our Islands and France, but rising in Scandinavia, Denmark, and North Germany.

TEMPERATURE

Highest, (1) 59° at Perpignan; (2) 56° at Scilly, 55° at Cambrake, and 54° at Roches Point and Jersey.
Lowest, 13° at Haparanda, and 23° at Bodø, Hernösand, Stockholm and Karlstad; lowest in our Islands 41° at Sumburgh Head.
During yesterday the thermometer rose to 55° and upwards on our extreme west and southwest coasts and to 59° at Blackrod Point.
On our north and east coasts it did not reach 50°.

WIND

Light to moderate from the S.ᵗʰ or SW.ᵗʰ on our south and southwest coasts and also in the north of France; SE. in the northern parts of our Islands and strong in force at Wick.
NE. in Norway; N. or NW. in Sweden and Denmark, with a gale at Wisby; W. in Germany; Variable in the southern part of France.

WEATHER

Dull and unsettled over the whole of our Islands, the Netherlands, Western Germany, and the north of France, with rain in many places. Foggy on several parts of our more western and southern coasts.
Fine in most parts of Scandinavia, Denmark, and North Germany, but snow falling in the south of Sweden; fine also in the south of France.
Rain fell yesterday over northwestern Europe generally, the largest amounts being 0·7 in: at Stornoway, and 0·6 in: at Nairn and Aberdeen.

SEA

Rough off the northeast of Scotland and rather rough at Fluitiansund and Donaghadee, but moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A depression of moderate depth is spreading eastwards over our Islands, and unsettled rainy weather seems likely to continue for a time in most districts. A new high pressure area has been formed over Norway, and the general distribution of pressure is therefore somewhat complex.

FORECASTS

For the 24 hours ending at NOON on 7ᵀᴴ DECEMBER 1899.

DISTRICTS.		FORECASTS.
▼ 0	SCOTLAND NORTH	SE. ²⁴ winds, strong to a gale; squally, rainy.
▼ 1	SCOTLAND EAST	SE. ²⁴ winds, moderate or fresh; unsettled, rain at times.
2	ENGLAND N.E.	
3	ENGLAND EAST	
4	MIDLAND COUNTIES	S. ²⁴ winds, light or moderate; unsettled, rain at times.
5	ENGLAND SOUTH	
▼ 6	SCOTLAND WEST	SE. ²⁴ winds, moderate or fresh; dull, some rain.
7	ENGLAND N.W.	
8	ENGLAND S.W.	S. ²⁴ winds, moderate or fresh; dull, some rain.
▼ 9	IRELAND NORTH	S. ²⁴ winds, moderate to strong; dull, some rain.
▼ 10	IRELAND SOUTH	
	WARNINGS	At 3·40 pm yesterday to districts 6, 10, and part of 9, and at 10·10 am today to district 0 and part of 1 "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.	WIND. Force.	WEA.	SEA.
Skudesnaes ...	29.93	39	36	NNE	4	c	4
Sumburgh Head	30.09	36	33	N	1	0	4
Stornoway... ...	29.99	45	40	SE	3	0	3
Aberdeen	30.12	35	33	NW	1	bcm	3
Shields	30.11	46	45	SE	1	opr	3
Malin Head ...	29.97	51	51	SSW	2	r	1
Blacksod Pt.. ...	29.82	57	50	SSW	5	cq	5
Holyhead	30.10	53	52	SW	1	r	1
Valencia	29.95	56	53	SSE	5	oq	5
Scilly	30.12	55	53	SSE	4	c	2
Jersey	30.25	53	49	WSW	4	0	3
Portland Bill ...	30.19	52	50	WNW	3	0	3
Dungeness ...	30.14	51	51	W	1	f	1
London (Westminster)	30.14	54	52	S	0	oqwr	*
Yarmouth ...	30.12	47	45	NNE	2	c	3
Rochefort ...	30.33	46	44	SE	2	bc	*

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

Weather in morning dull over our Islands and the neighbouring parts of the Continent, with fog or drizzle over England and more decided rain in the north of Ireland, as well as at Paris and Brussels. Fine over a considerable portion of northern Europe but snow falling at Christiansund, Helsingfors and Moscow; dull over Italy, Austria and South Germany, with rain at Breslau and Vienna, and snow at Munich and Buda Pesth; fine over the Spanish Peninsula and the extreme south of France. Rain falling during day in nearly all parts of northwestern Europe and snow in the south of Sweden.

Temperature risen over England, France and Central Europe generally and also over Finland, fallen elsewhere,—specially in Scotland. Morning readings highest (1) 59° at Langesnaire, and 57° at Malta and Algiers; (2) 54° at Valencia (Ireland), and 53° at several of our other southwestern stations. Lowest 10° at Archangel, 13° at Uleaborg and 15° at Haparanda and Kuopio; below the freezing point over Sweden and Russia generally, and also over Central France and the north of Scotland. Daily maxima below 50° in the north and east of our Islands, but thermometer exceeding 55° on our extreme west and southwest coasts, and reaching 59° at Blacksod Point.

Wind light to moderate from the S^th or SW^d in the west of our Islands; light from the N^th on the north and east coasts of Great Britain, and blowing a gale from the same quarter or from NW. over Denmark, the Baltic, and the greater part of Scandinavia; W^ly over South Germany and Austria, S^ly over the Central and southern parts of Russia. E^ly in the extreme northern parts of Russia and Scandinavia. W^ly in the English Channel; variable over France, NE^ly over the Spanish Peninsula; N^ly or NW^ly in Italy. No important change occurring later.

Barometer highest 30·4 in: and upwards over Central Spain; 30·1 in: and upwards in an anticyclone covering the greater part of western and southern Europe. Lowest 28·9 in: and less, in a depression, with its centre near the mouth of the Gulf of Finland; gradients steep over Scandinavia, Denmark, and the Baltic. New disturbance appearing later off our own western coast, and barometer falling decidedly in Ireland.

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 7th 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	30·17	21	NNE	2	o	30·31	+ ·32	16	15	+ 3	Z	o	c	*	o	*	21	9	—
	Hernösand	29·97	21	N	4	o	30·31	+ ·38	21	20	— 2	N	2	o	*	o	*	23	14	—
	Stockholm ...	29·82	22	NW	2	s	30·13	+ ·35	27	24	+ 4	N	6	o	*	s	*	30	21	0·08
	Wisby	29·90	26	N	8	c	30·03	+ ·32	25	24	— 5	NE	6	o	*	c	*	30	23	0·04
	Karlstad	30·17	21	WNW	4	b	30·28	+ ·31	19	18	— 4	ENE	4	o	*	b	*	*	*	—
	Bodö	30·15	22	E	4	b	30·20	+ ·19	22	19	— 1	ENE	4	b	1	b	*	23	19	—
	Christiansund ...	30·12	34	SE	1	b	30·15	+ ·10	34	29	— 3	SE	1	b	4	b	*	37	28	—
	Skudesnaes ...	30·08	37	SSE	2	bc	30·17	+ ·16	35	31	0	SE	4	b	2	c, bc	*	39	34	*
	Færder (X'iania Fjord)	30·10	35	NE	4	o	30·29	+ ·30	24	22	— 11	NE	4	b	2	o	*	36	23	—
	The Scaw (Skagen)	30·09	36	WNW	3	o	30·23	+ ·26	28	27	— 5	E	3	o	0	o	*	37	27	—
	Fanö	30·06	31	NE	4	o	30·12	+ ·12	30	29	— 3	NE	4	b	*	o	*	36	30	—
British Islands	Sumburgh Head ...	29·80	43	SE	4	o	29·86	— ·08	44	41	+ 3	SE	6	o	7	o	*	46	41	—
	Stornoway	29·60	49	SE	3	r	29·60	— ·08	49	48	+ 1	SSE	2	o	2	a, or	0·0	49	44	0·15
	Wick	29·66	45	SE	8	r	29·73	— ·04	46	44	+ 1	SE	8	o	7	r	*	47	43	0·20
	Nairn	29·63	46	Z	0	o	29·67	— ·08	48	46	+ 3	SSE	2	o	2	o	*	49	42	0·29
	Aberdeen	29·72	46	SE	8	orgq	29·80	— ·05	43	42	— 1	SE	8	orgq	7	orgq	0·0	47	43	0·81
	Leith	29·63	48	E	2	r	29·68	— ·10	48	47	+ 1	Z	o	o	*	r	*	49	45	0·41
	Shields	29·67	48	S	2	a	29·66	— ·20	47	47	0	SE	6	r	4	a	*	49	44	0·30
	Spurn Head ...	29·70	47	SE	5	r	29·63	— ·31	49	46	0	ESE	7	r	7	rf	*	50	45	0·58
	Loughborough ...	29·70	52	ESE	1	o	29·66	— ·26	38	38	— 9	Z	o	f	*	omp, bf	*	54	37	0·10
	Malin Head ...	29·48	50	W	1	r	29·64	— ·01	42	42	— 11	S	1	b	1	o, r	*	54	42	0·22
	Blacksod Pt. ...	29·57	48	WNW	3	bc	29·62	·00	46	43	— 7	SSE	3	b	3	cp, bc	*	54	42	0·09
	Donaghadee ...	29·53	53	SSE	2	rm	29·66	— ·08	38	?	— 14	S	2	of	2	rm	*	53	38	0·15
	Liverpool (Bidston)	29·66	49	SE	2	o	29·67	— ·15	45	43	— 4	SW	1	m	?	r, o	*	53	44	0·27
	Holyhead	29·60	53	S	3	odpf	29·63	— ·15	48	47	— 4	SE	1	cm	1	f, dpf	*	54	42	0·26
	Parsonstown ...	29·60	45	SW	1	b	29·66	— ·03	29	29	— 24	SW	1	o	*	op, b	0·2	56	29	0·14
	Valencia	29·58	46	SSE	2	bc	29·63	— ·02	47	45	— 6	NNE	2	bc	4	cp, bc	1·4	54	44	0·44
	Roche's Point ...	29·63	49	W	3	bc	29·58	— ·12	47	47	— 7	W	3	r	4	m, bc, r	*	54	45	0·85
	Pembroke (St. Ann's Hd.)	29·67	53	W	4	bc	29·59	— ·27	53	52	— 2	ENE	3	cm	4	o. bc	0·1	55	47	0·09
	Scilly	29·72	52	SW	4	r	29·44	— ·30	53	52	— 3	ESE	5	or	6	c, r	1·1	58	50	0·15
	Jersey (St. Aubin's) ...	29·84	54	SSW	4	oq	29·61	— ·41	53	51	— 1	SSE	3	om	3	rm, oq	*	55	49	0·24
	Portland Bill ...	29·76	55	SW	4	od	29·63	— ·34	55	54	+ 2	E	3	c	3	fd, od	*	55	46	0·03
	Dungeness	29·79	52	SW	4	r	29·65	— ·35	46	46	— 5	WNW	1	f	1	o, r	*	54	46	0·16
	London (Brixton) ...	29·74	54	SSW	1	od	29·66	— ·30	46	46	— 3	W	1	ogm	*	ogr, b, o	0·0	55	44	0·05
	Oxford	29·69	55	SW	2	dg	29·66	— ·27	43	43	— 6	Z	o	f	*	gd	*	56	43	0·11
	Yarmouth	29·77	48	S	3	r	29·66	— ·29	46	45	0	ESE	8	ogq	6	r	*	48	44	0·41
France & Netherlands. Germany.	Cuxhaven	29·97	37	E	2	o	30·02	+ ·07	31	29	— 10	E	4	bc	*	o	*	41	28	—
	Berlin	29·98	33	ENE	3	o	29·99	+ ·10	28	26	— 5	NNW	3	b	*	o	*	37	28	—
	Wiesbaden	*	*	*	*	*	29·84	— ·21	36	35	— 5	E	2	r	*	*	*	43	36	0·67
	Munich	30·00	33	S	2	r	29·83	— ·22	32	32	— 4	W	2	s	*	r	*	37	32	0·71
	The Helder ...	29·88	41	SE	1	r	29·82	— ·18	38	36	— 4	E	4	c	3	r	*	43	37	0·75
	Brussels	*	*	*	*	*	29·72	— ·29	43	43	— 5	E	2	r	*	r	*	48	42	0·67
	C. Gris Nez ...	29·84	47	SW	5	r	29·68	— ·35	51	51	+ 1	WSW	1	o	1	r	*	52	46	0·28
	Paris	29·95	43	SSW	2	r	29·70	— ·41	47	47	+ 8	S	2	r	*	r	*	47	?	0·12
	Brest	29·84	54	WSW	2	f	29·53	— ·48	55	52	0	S	3	bc	4	f	*	55	48	0·08
	Lorient	29·90	57	SW	5	r	29·56	— ·50	53	53	+ 6	S	4	r	4	r	*	59	45	0·35
	Rochefort	30·09	51	S	2	r	29·76	— ·45	47	45	+ 7	SSE	3	r	*	r	*	62	37	0·34
	Belfort	30·01	39	W	3	o	29·80	— ·31	38	37	+ 2	W	2	f	*	o	*	40	36	0·12
	Lyons	30·08	41	W	1	b	29·82	— ·41	37	33	— 3	W	1	c	*	b	*	48	35	—
	Nice	29·84	48	E	1	b	29·76	— ·16	47	46	+ 1	E	2	c	2	b	*	59	45	—
	Perpignan	30·02	54	WNW	2	b	29·81	— ·31	40	34	— 19	SW	2	b	*	b	*	71	37	—
	Biarritz	30·03	56	Z	0	b	29·76	— ·38	62	54	+ 18	W	3	o	2	b	*	63	49	0·04
Span. Pen.	Corunna																			
	Lisbon	30·17	62	SW	5	c	30·15	— ·15	58	54	+ 5	W	3	bc	*	c	*	64	53	0·12
	Azores (P. Delgada)	30·08	59	N	1	b	30·51	+ ·12	57	54	— 2	N	3	c	3	b	*	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 recorded on the Tower of the Wesleyan Training College, Westminster*

Bright Sunshine yesterday Southport 0·0 *hrs.*

WEATHER CHARTS

FOR Thursday, 7th December, 1899.

BAROMETER, WIND AND SEA.

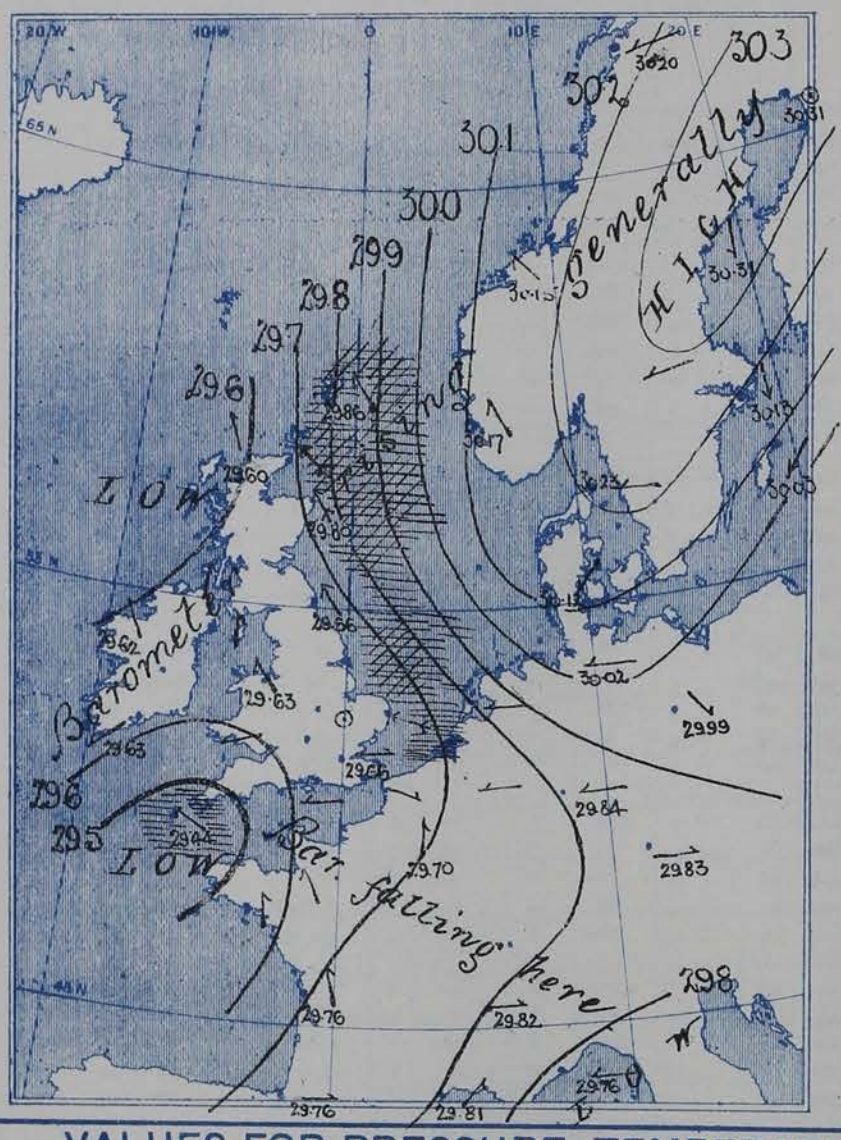
BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show 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* ▩

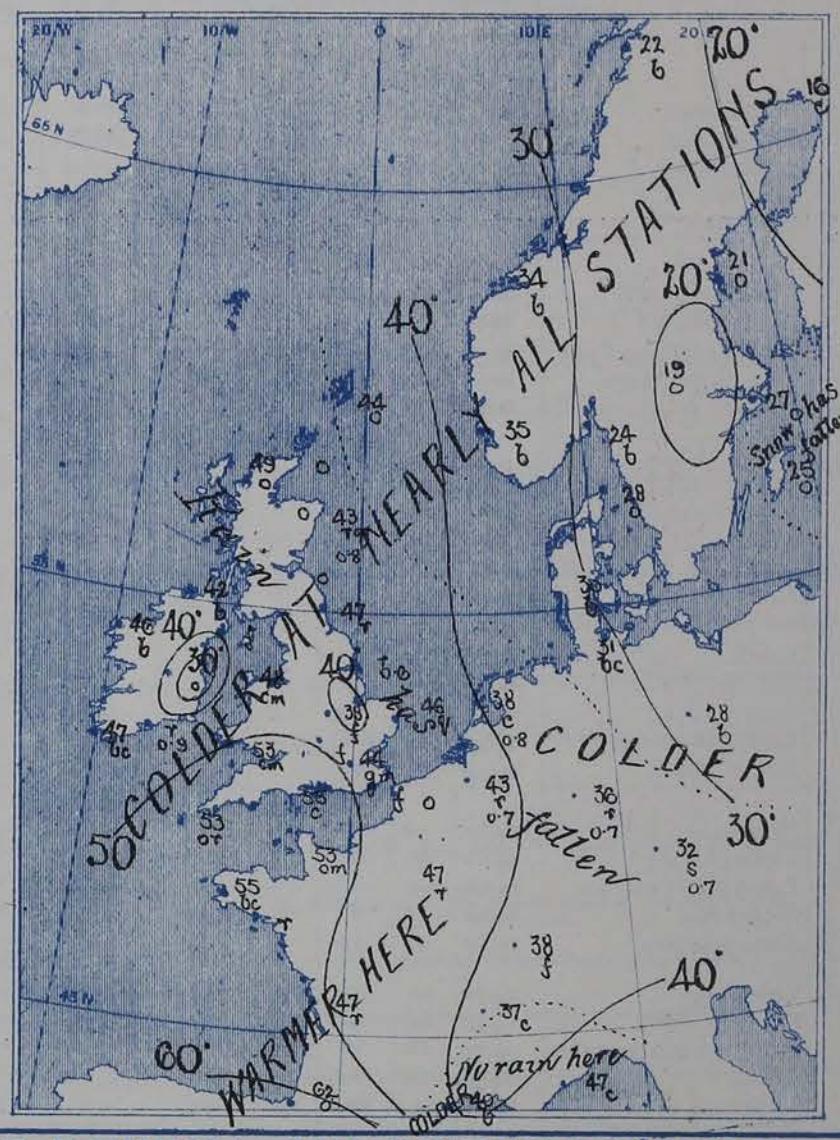


TEMPERATURE AND WEATHER.

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 more to 30.1 ins. in an anticyclone covering the whole of Scandinavia & Denmark.
Lowest. Below 29.5 ins. in a depression at the mouth of the English Channel, and apparently moving eastwards.
Gradients steep over the North Sea, slight and irregular in our Islands.
Barometer falling fast over France.

TEMPERATURE

Highest 62° at Biarritz, 53° over the SW. of England and S. Wales.
Lowest (1) 16° at Haparanda, 19° at Karlstad; (2) 29° at Parsonstown, 38° at Donaghadee.
It has risen fast at Biarritz, but falls rapidly over central Ireland since yesterday.

WIND

SE 4, strong to a gale and squally on our northeast and east coasts; S 4 moderate and increasing over the Bay of Biscay; light and variable at most of our western stations, but fresh from E. at Scilly.

WEATHER

Fine in many parts of Ireland and in the W. of Norway, very dull, misty, and raining over Gt. Britain and France.
Rain has fallen all over our Islands and France — heavily in some places.
Bright Sunshine recorded yesterday amounted to little more than an hour at some of our W^rn. stations. Over Gt. Britain as a whole there was none.

SEA

High on our NE. coasts, rough in the E.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression in the SW. will probably move E^wds. or SE^wds. and strong E. 4 gales be felt over the North Sea, followed by colder weather, and perhaps snow.

FORECASTS

For the 24 hours ending at NOON on 8TH DECEMBER 1899.

DISTRICTS.		FORECASTS.
1	SCOTLAND NORTH	SE 4 winds, strong to a gale, rainy.
2	SCOTLAND EAST	
3	ENGLAND N.E.	E 4 and NE 4 gales, rainy, then colder, perhaps snow.
4	ENGLAND EAST	
5	MIDLAND COUNTIES	
6	ENGLAND SOUTH	Wind doubtful at present; rain and mist, then colder, perhaps snow.
7	SCOTLAND WEST	Wind NE 4 and variable, dull and rainy to fair, cooler.
8	ENGLAND N.W.	
9	ENGLAND S.W.	
10	IRELAND NORTH	
11	IRELAND SOUTH	
	WARNINGS	At 10.20 am today to districts 1, 2 and 3 Hoist North Cone. The Signals are still flying in districts 0, 6, 10 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.	WIND. Force.	WEA.	SEA.
Skudesnaes ...	30·07	39	34	SE	4	c	3
Sumburgh Head	29·87	43	39	SE	4	o	6
Stornoway... ...	29·63	49	48	SE	4	r	4
Aberdeen	29·75	46	45	SE	6	orgq	7
Shields	29·76	48	48	S	2	d	3
Malin Head ...	29·55	53	53	SE	4	o	2
Blacksod Pt.. ...	29·56	49	47	WNW	4	cp	4
Holyhead	29·67	54	53	S	3	f	2
Valencia	29·63	52	50	SW	3	cp	4
Scilly	29·75	55	54	SW	4	c	3
Jersey	29·94	55	53	S	4	rm	3
Portland Bill ...	29·83	55	55	SW	4	fa	3
Dungeness ...	29·88	51	50	SW	4	o	3
London (Westminster)	29·83	53	52	SW	1	ogmd	*
Yarmouth ...	29·83	48	47	SSE	3	r	4
Rochefort ...	30·15	48	46	SSE	3	o	*

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

Weather in morning in a very disturbed condition both over our Islands, and also over Russia, E.n Prussia and Poland, fair over most parts of Scandinavia, as well as over Spain and the SW. of France. Rain later over the whole of our Islands, the greater part of France and S. Germany, – showers large in several localities; fog or mist prevalent in the N. of England.

Temperature risen considerably over Scotland and some parts of France, fallen in the W. of Russia. Morning readings highest 60° at Malta, Palermo and Bilbao; 56° at Scilly and Lorient, and above 50° on all our W. and SW. coasts as well as at most of the Mediterranean stations. Lowest 11° to 15° over Finland, 23° in Sweden, above 32° over the greater part of central Europe. Remaining very mild over our Islands and France till night.

Wind (1) N.ly and NW.ly over the Baltic and western parts of Russia – strong to a gale in force; (2) S.ly (SSW to SSE) over the British Islands, and strong at the Scotch stations; (3) light and anticyclonic both over Spain and France, and also over Norway. Becoming more E.ly in Scotland later, and shifting to the W.ward in the northwest of Ireland.

Barometer highest (1) 30.0 ins. and more over Norway; (2) 30.4 ins. to 30.1 ins. over Spain and France – the distribution in both cases being anticyclonic. Lowest (1) 29.2 ins. and less in a depression over central Russia; (2) 29.7 ins. and less over the W.rn parts of Ireland and the Hebrides. Falling over our Islands later – most in the east, changing irregularly in Ireland.

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 Friday 8th 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	30·26	14	2	0	0	30·15	−·16	12	9	− 4	N	2	b	•	0	•	30	7	—
	Hernösand	30·35	5	2	0	b	30·28	−·03	5	3	− 16	2	0	be	•	b	•	23	3	—
	Stockholm	30·26	25	N	2	0	30·25	+·12	25	23	− 2	N	2	0	•	0	•	27	21	—
	Wisby	30·15	29	NE	4	s	30·19	+·16	29	27	+ 4	E	4	0	•	s	•	29	21	0·04
	Karlstad	30·35	20	NNE	4	0	30·33	+·05	12	11	− 7	N	2	be	•	0	•	•	•	—
	Bodö	30·16	23	E	2	b	30·08	−·12	32	30	+ 10	E	4	0	1	b	•	32	19	—
	Christiansund ...	30·22	31	ESE	1	b	30·21	+·06	28	25	− 6	ESE	1	be	4	b	•	34	27	—
	Skudesnaes ...	30·27	32	SE	4	b	30·25	+·08	31	28	− 4	SE	6	c	4	b	•	35	30	•
	Færder (X'tiania Fjord)	30·34	41	NNE	2	b	30·32	+·03	22	22	− 2	NNE	2	b	2	b	•	41	22	—
	The Scaw (Skagen)	30·28	30	E	2	0	30·29	+·06	28	27	0	ENE	1	0	0	0	•	30	28	—
	Fanö	30·21	30	NE	4	0	30·21	+·09	27	26	− 3	ENE	2	b	•	0	•	32	27	—
British Islands	Sumburgh Head ...	29·90	43	SE	7	0	29·87	+·01	42	39	− 2	SSE	7	0	7	0	•	45	40	—
	Stornoway	29·69	50	SW	4	0	29·68	+·08	48	46	− 1	SSW	5	0	5	0	0·0	50	44	0·03
	Wick	29·82	45	SE	8	0	29·80	+·07	44	42	− 2	SSE	8	c	8	0	•	48	41	—
	Nairn	29·80	45	SSE	1	c	29·81	+·14	42	38	− 6	SE	2	0	2	c	•	49	40	—
	Aberdeen	29·92	42	SE	8	rrgq	29·95	+·15	41	37	− 2	SSE	7	ogq	6	ogq. rgq	0·0	44	41	0·11
	Leith	29·81	45	W	3	r	29·91	+·23	38	34	− 10	SE	2	0	•	r	-	48	36	0·07
	Shields	29·87	43	ESE	4	0	29·93	+·27	41	38	− 6	SE	4	c	5	r. 0	•	48	39	0·26
	Spurn Head ...	29·78	43	ESE	8	c	29·93	+·30	40	36	− 7	ESE	7	be	7	c	•	47	35	—
	Loughborough ...	29·76	44	E	3	0	29·91	+·25	31	30	− 7	E	2	bm	•	fa. 0. be	•	47	31	0·01
	Malin Head ...	29·72	42	S	1	b	29·73	+·09	45	45	+ 3	NW	5	r	4	b	•	49	40	0·02
	Blacksod Pt. ...	29·72	48	SSW	3	be	29·87	+·25	47	42	+ 1	NNW	6	be	5	b. bc. pq	•	50	42	0·47
	Donaghadee ...	29·74	45	SSW	2	0	29·79	+·13	45	45	+ 7	SE	4	rq	4	0	•	48	37	0·05
	Liverpool (Bidston)	29·76	45	NE	4	0	29·88	+·21	36	33	− 9	E	5	c	4	rfg. 0	•	48	35	0·05
	Holyhead	29·71	48	NE	2	cm	29·79	+·16	43	42	− 5	ENE	1	om	1	be. cm	•	49	42	—
	Parsonstown ...	29·76	35	SE	1	f	29·86	+·20	42	41	+ 13	W	1	d	•	f	0·0	42	28	0·10
	Valencia	29·75	48	2	0	om	29·99	+·36	48	42	+ 1	NW	7	cq	6	bc. om	4·2	52	43	0·39
	Roche's Point ...	29·64	47	N	3	b	29·88	+·30	47	44	0	NNW	5	c	4	b. p	•	52	43	0·30
	Pembroke (St. Ann's Hd.)	29·76	47	ENE	1	b	29·73	+·14	46	44	− 7	ESE	4	c	3	b	4·3	55	44	—
	Scilly	29·61	53	NE	4	be	29·70	+·26	50	47	− 3	NW	8	oq	6	c. be	2·2	58	47	0·41
	Jersey (St. Aubin's) ...	29·52	51	ENE	3	om	29·64	+·03	49	46	− 4	NE	4	om	3	om. or	•	53	47	0·27
	Portland Bill ...	29·63	45	ENE	3	c	29·75	+·12	41	40	− 9	ENE	4	odm	4	c	•	52	38	0·05
	Dungeness	29·63	46	E	4	0	29·80	+·15	33	31	− 13	E	7	c	5	0	•	54	32	0·05
	London (Brixton) ...	29·66	46	NE	3	od	29·89	+·17	34	33	− 12	E	4	c		ogfd. 0	0·0	48	34	—
	Oxford	29·72	44	NE	3	r	29·85	+·19	36	33	− 7	E	3	0	•	f. og. d	•	46	35	—
	Yarmouth	29·75	43	E	8	cq	29·92	+·26	37	34	− 9	ESE	8	b	6	0. cq	•	47	35	—
France & Netherlands. Germany.	Cuxhaven	30·06	30	E	4	b	30·11	+·09	30	29	− 1	E	4	b	•	b	•	32	27	—
	Berlin	30·05	35	NE	2	b	30·11	+·12	26	25	− 2	NE	3	0	•	b	•	35	23	—
	Wiesbaden	•	•	•	•	•	29·95	+·11	26	25	− 10	NE	6	b	•	•	•	39	25	0·04
	Munich	29·80	27	E	5	s	29·81	−·02	13	12	− 19	NE	5	b	•	s	•	32	12	0·20
	The Helder ...	29·94	31	E	4	b	30·04	+·22	29	27	− 9	E	1	b	3	b	•	38	28	—
	Brussels	•	•	•	•	•	29·91	+·19	25	23	− 18	ENE	4	b	•	c	•	44	24	0·20
	C. Gris Nez ...	29·65	44	E	5	m	29·80	+·12	26	25	− 25	E	5	b	4	m	•	52	25	0·12
	Paris	29·59	44	SE	1	r	29·67	−·03	33	32	− 14	ENE	3	r	•	r	-	47	33	0·67
	Brest	29·53	51	NE	2	b	29·70	+·17	52	49	− 3	NW	4	0	4	b	•	55	46	0·04
	Lorient	29·52	51	SE	3	0	29·68	+·12	49	49	− 4	NNW	5	c	5	0	•	59	45	0·16
	Rochefort	29·64	50	SW	3	be	29·68	−·08	50	48	+ 3	WNW	4	r	•	0. bc	•	54	46	0·59
	Belfort	29·63	38	ENE	6	r	29·65	−·15	29	28	− 9	ENE	5	0	•	r	•	42	29	1·18
	Lyons	29·62	45	W	1	0	29·55	−·27	42	40	+ 5	WNW	1	m	•	0	•	49	37	0·08
	Nice	29·57	51	2	0	c	29·43	−·33	46	44	− 1	E	2	be	2	c	•	59	45	—
	Perpignan	29·61	49	E	1	b	29·53	−·27	47	45	+ 7	W	2	r	•	b	•	63	40	0·12
	Biarritz	29·63	52	W	3	r	29·64	−·12	56	52	− 6	N	5	r	6	r	•	62	48	0·43
Span. Pen.	Corunna																•			
	Lisbon	30·06	58	SW	3	c	30·14	−·01	57	52	− 1	N	5	b	•	c	•	63	57	0·39
	Azores (P. Delgada)	30·53	57	NE	2	be	30·52	+·01	57	53	0	NNE	3	0	2	be	•	63	54	—

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

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

Bright Sunshine yesterday Southport 0·0 hrs.

WEATHER CHARTS

FOR Friday, 8th December, 1899.

BAROMETER, WIND AND SEA.

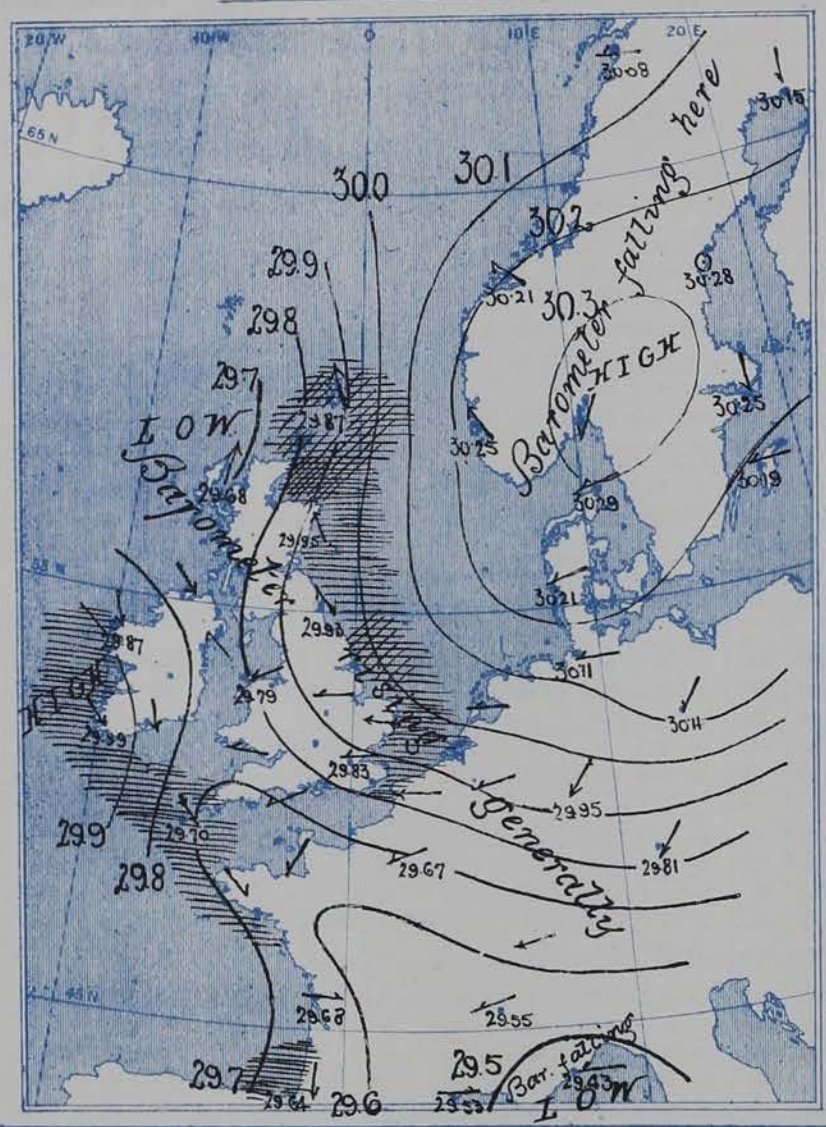
BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show 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*

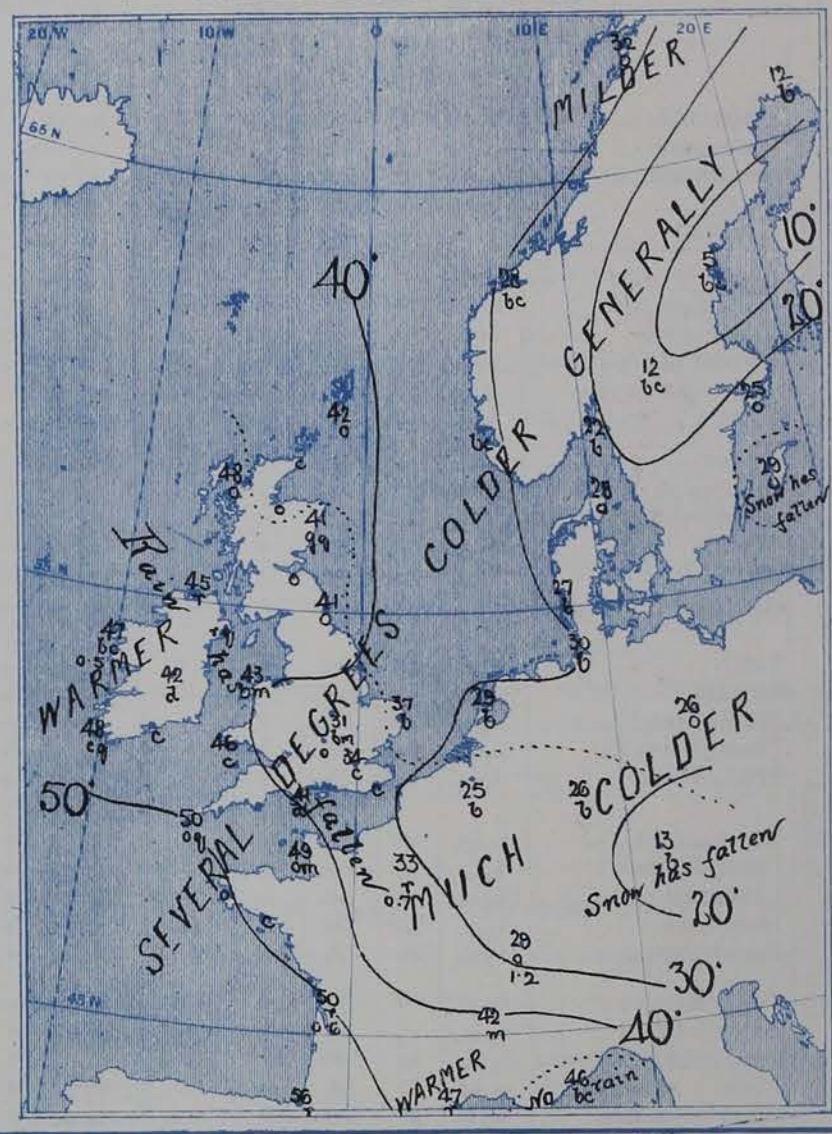


TEMPERATURE AND WEATHER.

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 (1) 30.3 ins. and more to 30.0 ins. in an anticyclone lying over Scandinavia and the North Sea;
(2) 29.9 ins. and apparently much more in another system beginning to advance over Ireland from the Atlantic
Lowest (1) 29.43 ins. at Nice, and below 29.6 ins. over all the S^th. parts of France; (2) Below 29.7 ins. over the Hebrides.
Gradients rather steep over our Islands, slight over the North Sea.
Barometer rising over the North Sea and England, rising fast in Ireland, falling a little in Sweden & Norway.

TEMPERATURE

Highest 56° at Biarritz, 52° at Brest 50° both at Rochefort and Scilly.
Lowest (1) 12° at Hapsaranda; (2) 13° at Munich, below 30° all over Germany and central France; (3) 31° at Loughborough, 34° in London.
It has fallen fast over Germany, France and England, but has recovered considerably over Ireland from the low readings recorded there yesterday.

WIND

(1) NSE. ½ to ESE. ½, strong to a strong gale on our northeast and east coasts, E. ½ fresh in the south.
(2) NW. ½ in the west and south of Ireland and at Scilly (a gale at Scilly).
(3) NW. ½ very fresh over the Bay of Biscay.

WEATHER

Very variable – clear in Sweden and in some parts of our Islands, dull elsewhere, and squally in places.
Rainfall is reported from many parts of our Islands, France and S. Germany – 1.2 ins at Belfort. Bright Sunshine recorded yesterday exceeded 4 hours at some W^rn. stations, in Gt. Britain there was none.

SEA

Still high in the N^o. very rough in most other places.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A continuance of cold winds from E. and N. is now probable over Ireland, England and the Channel.

FORECASTS

For the 24 hours ending at NOON on 9TH DECEMBER 1899.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	S. ½ winds, vecing & moderating, warmer, showery.	6 SCOTLAND WEST	Same as Nos. 0 and 1.
1 SCOTLAND EAST		7 ENGLAND N.W.	Wind becoming N. ½ or NW. ½, strong; squally, some showers.
2 ENGLAND N.E.	SE. ½ winds, moderate in the northern parts of district, strong in the south; squally, fair.	8 ENGLAND S.W.	
3 ENGLAND EAST	Same as No. 5.	9 IRELAND NORTH	
4 MIDLAND COUNTIES	E. ½ winds, moderate, fair, colder.	10 IRELAND SOUTH	
5 ENGLAND SOUTH	E. ½ winds, strong to a gale on the coast; fair as a whole; colder.	WARNINGS	The North Cone is still flying in districts 1, 2 and 3.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Skudesnaes ...	30·24	34	29	SSE	4	b	2
Sumburgh Head	29·91	43	40	SE	7	o	7
Stornoway... ...	29·67	50	49	SW	3	o	3
Aberdeen	29·88	43	41	SE	8	o8q	7
Shields	29·82	44	44	ESE	5	r	4
Malin Head ...	29·68	48	46	SSW	2	b	1
Blacksod Pt.. ...	29·68	49	45	ESE	3	b	2
Holyhead	29·68	49	46	NE	2	be	1
Valencia	29·70	51	48	W	0	be	3
Scilly	29·92	54	52	ENE	4	c	6
Jersey	29·55	53	51	E	3	o	3
Portland Bill ...	29·60	48	46	ENE	3	c	3
Dungeness ...	29·61	51	50	E	2	o	1
London (Westminster)	29·62	48	47	NE	1	o9f	*
Yarmouth ...	29·69	44	43	ESE	8	o	6
Rochefort ...	29·70	45	43	S	4	o	*

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

Weather in morning very unsettled and in a transitory condition generally. Fine and bright in Norway and the W. of Ireland, dull over the Continent generally with snow or rain in many places, very unsettled over Gt. Britain, very rainy on our E. coast. Rain later over Ireland and England, large quantities in some parts of France; some snow at Wisby.

Temperature fallen greatly over central Ireland, less decidedly over England and central Europe; risen over France and Italy. Morning readings highest 64° at Cagliari, 63° at Malta, 62° both at Palermo and Biarritz; 55° to 53° on the coasts of Brittany and the SW. of England. Lowest (1) −3° at Archangel, +16° at Haparanda, 21° at Hernösand and Moscow; (2) 17° at Kiew, and below the freezing point over E.rn and central Europe; 47° at Paris. Falling decidedly later over England, France and Germany.

Wind Light and anticyclonic over the western and northern parts of Scandinavia, and also over the extreme south of Spain. Cyclonic (1) from the N.wd over the Baltic, NW.ly over central Europe; (2) from between SE. and E. in our Islands as a whole (very strong on the east coast), and S.ly in the west of France, (3) very variable over the Mediterranean.

Barometer highest 30.3 ins. and more to 30.1 ins. over Norway, Sweden and Denmark; (2) 30.1 ins. and more over the S. of Spain and Morocco. Lowest (1) 29.3 ins. to 29.4 ins. in a depression over central Russia; (2) 29.5 ins. and less in a new depression approaching the mouth of the Channel from the W.wd; (3) 29.8 ins. and less in a shallow disturbance over the SE. of France and N. of Italy. Depression near Scilly moving SE.wds later. Barometer rising over the United Kingdom.

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, 9th 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	30·22	3	SW	0	c	30·28	+·13	23	22	+ 11	SSW	2	o	•	c	•	23	1	-
	Hernösand	30·30	3	SW	0	b	30·36	+·08	8	6	+ 3	SW	0	bc	•	b	•	9	0	-
	Stockholm	30·31	24	SW	0	o	30·38	+·13	25	23	0	NW	2	o	•	o	•	27	21	-
	Wisby	30·28	29	ENE	4	o	30·31	+·12	29	28	o	NE	4	o	•	o	•	29	19	-
	Karlstad	30·38	?	N	2	b	30·38	+·05	?	?	?	NW	2	f	•	b	•	•	•	-
	Bodö	30·18	37	E	2	o	30·15	+·07	39	35	+ 7	E	2	o	1	c	•	39	30	-
	Christiansund ...	30·21	31	ESE	2	b	30·24	+·03	33	29	+ 5	ESE	3	c	4	b	•	33	27	-
	Skudesnaes ...	30·32	35	SE	4	o	30·33	+·08	35	32	+ 4	ESE	2	o	2	o	•	36	30	•
	Færder (X'iania Fjord)	30·37	25	NW	1	o	30·32	·00	28	26	+ 6	N	2	o	1	o	•	28	22	-
	The Scaw (Skagen)	30·34	31	ESE	1	o	30·35	+·06	32	30	+ 4	ESE	1	o	o	o	•	32	29	-
	Fanö	30·34	27	ENE	3	b	30·36	+·15	27	26	o	NNE	2	c	•	b	•	32	27	-
British Islands	Sumburgh Head ...	29·96	43	S	4	o	30·12	+·25	41	39	- 1	W	1	c	5	o	•	44	40	-
	Stornoway	29·96	42	SW	o	c	30·12	+·44	36	35	- 12	W	2	c	2	p.o,b	o·o	48	32	o·15
	Wick	29·94	39	SW	4	c	30·14	+·34	33	32	- 11	NNW	1	bc	4	c	•	44	31	o·03
	Nairn	30·01	37	W	2	r	30·17	+·36	33	32	- 9	SW	o	b	1	r	•	43	32	o·16
	Aberdeen	30·07	39	SSW	3	c	30·22	+·27	35	33	- 6	SW	2	ogm	3	c gg.c	o·o	42	34	-
	Leith	30·04	36	SE	2	o	30·23	+·32	32	30	- 6	SW	o	m	•	o	•	38	29	-
	Shields	30·09	39	S	3	bc	30·26	+·33	35	33	- 6	W	1	cw	3	c..bc	•	42	33	-
	Spurn Head ...	30·07	39	ESE	6	bc	30·24	+·31	39	38	- 1	ESE	5	c	3	bcv	•	40	38	-
	Loughborough ...	30·07	31	ESE	1	b	30·27	+·36	27	26	- 4	W	1	cm	•	b	•	37	22	-
	Malin Head ...	30·03	45	NE	5	og	30·18	+·45	38	38	- 7	S	2	bc	3	r.og	•	46	37	o·07
	Blacksod Pt. ...	30·15	45	SW	2	bc	30·17	+·30	44	41	- 3	S	3	b	2	p.bc	•	47	36	o·01
	Donaghadee ...	29·96	42	S	4	op	30·22	+·43	40	38	- 5	S	3	ogm	4	op	•	48	38	o·20
	Liverpool (Bidston)	30·06	35	ESE	3	o	30·27	+·39	31	30	- 5	E	1	b	?	om	•	36	30	-
	Holyhead	29·96	41	SW	3	am	30·22	+·43	37	35	- 6	E	1	cm	1	r.am	•	44	35	o·19
	Parsonstown ...	30·10	39	NNW	1	b	30·22	+·36	31	31	- 11	NW	1	o	•	o.b	o·6	45	28	o·01
	Valencia	30·19	48	NW	4	c	30·22	+·23	34	33	- 14	E	1	b	5	bcq,kp,c	2·9	50	33	o·08
	Roche's Point ...	30·10	45	NW	5	b	30·20	+·32	39	37	- 8	NNE	3	b	3	b	•	50	38	-
	Pembroke (St. Ann's Hd.)	29·90	40	ENE	3	r	30·21	+·48	37	36	- 9	E	2	og	2	o,rg	o·o	46	36	o·49
	Scilly	29·95	48	NW	8	o	30·13	+·43	45	45	- 1	NE	3	c	5	r.o	o·o	50	45	o·26
	Jersey (St. Aubin's) ...	29·86	41	NE	5	cg	30·14	+·50	38	34	- 11	NNE	4	cg	3	ors,cg	•	49	37	-
	Portland Bill ...	29·97	34	ENE	3	o	30·20	+·45	33	30	- 8	ENE	4	c	4	o	•	41	29	o·04
	Dungeness	30·00	35	ESE	1	b	30·17	+·37	36	35	+ 3	N	5	bc	4	b	•	?	32	-
	London (Brixton) ...	30·00	34	E	4	bm	30·22	+·39	33	31	- 1	E	1	b	•	bem.m	3·5	37	33	-
	Oxford	30·08	31	E	2	b	30·24	+·39	32	30	- 4	ENE	2	o	•	c.b	•	36	27	-
	Yarmouth	30·02	37	ESE	6	bc	30·23	+·31	37	33	o	ESE	6	b	5	bc	•	43	34	-
Germany	Cuxhaven	30·16	32	E	2	b	30·27	+·16	31	29	+ 1	NE	3	b	•	b	•	34	27	-
	Berlin	30·18	28	NW	2	c	30·23	+·12	27	26	+ 1	E	2	bc	•	c	•	28	25	-
	Wiesbaden	•	•	•	•	•	30·15	+·20	25	24	- 1	NE	4	b	•	•	•	32	25	-
	Munich	29·89	14	E	1	o	29·97	+·16	7	6	- 6	NE	6	b	•	o	•	19	7	-
Netherlands	The Helder ...	30·11	34	E	3	b	30·29	+·25	29	25	o	SE	o	b		b	•	32	28	-
	Brussels	•	•	•	•	•	30·22	+·31	22	21	- 1	ENE	3	b	•	b	•	31	19	-
France	C. Gris Nez ...	29·96	27	ESE	5	b	?	?	22	?	- 3	E	6	bc	5	b	•	32	21	-
	Paris	29·85	30	NE	3	bc	30·05	+·38	23	21	- 10	NE	4	b	•	bc	•	34	23	-
	Brest	29·88	46	NNW	5	r	30·10	+·40	43	41	- 9	NE	3	o	3	r	•	54	39	o·95
	Lorient	29·80	48	N	6	o	30·10	+·42	37	34	- 12	NE	3	c	3	o	•	52	36	-
	Rochefort	29·80	43	NNE	4	o	30·03	+·35	28	27	- 22	NE	5	o	•	r.o	•	50	27	o·39
	Belfort	29·75	22	ENE	6	b	29·89	+·24	18	15	- 11	ENE	7	b	•	b	•	39	18	-
	Lyons	29·61	37	N	1	o	29·84	+·29	24	22	- 18	NW	3	o	•	o	•	44	24	o·08
	Nice	29·35	33	E	4	c	29·45	+·02	46	40	o	E	1	o	4	c	•	52	45	-
	Perpignan	29·49	49	NW	3	o	29·61	+·08	43	37	- 4	NW	6	o	•	o	•	55	42	-
	Biarritz	29·71	57	NW	8	r	29·89	+·25	42	39	- 14	E	3	o	8	r	•	57	41	1·10
Spain & Pen.	Corunna																•			
	Lisbon	30·28	57	N	5	b	30·26	+·12	54	50	- 3	SW	2	o	•	b	•	63	54	-
	Azores (P. Delgada)	30·53	59	W	2	o	30·50	-·02	59	55	+ 2	WSW	3	o	2	o	•	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 recorded on the Tower of the Wesleyan Training College Westminster.*

Bright Sunshine yesterday Southport 0·0 hrs.

WEATHER CHARTS

FOR Saturday, 9th December, 1899.

BAROMETER, WIND AND SEA.

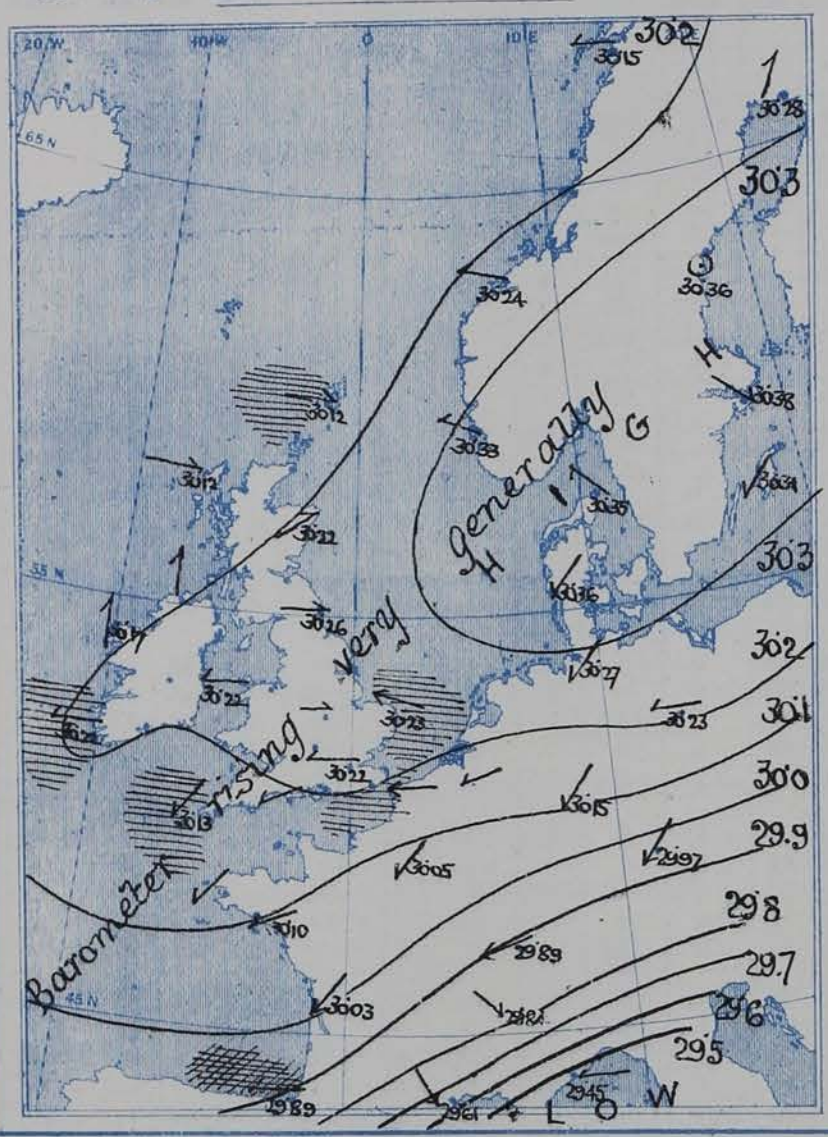
BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show 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* ▓

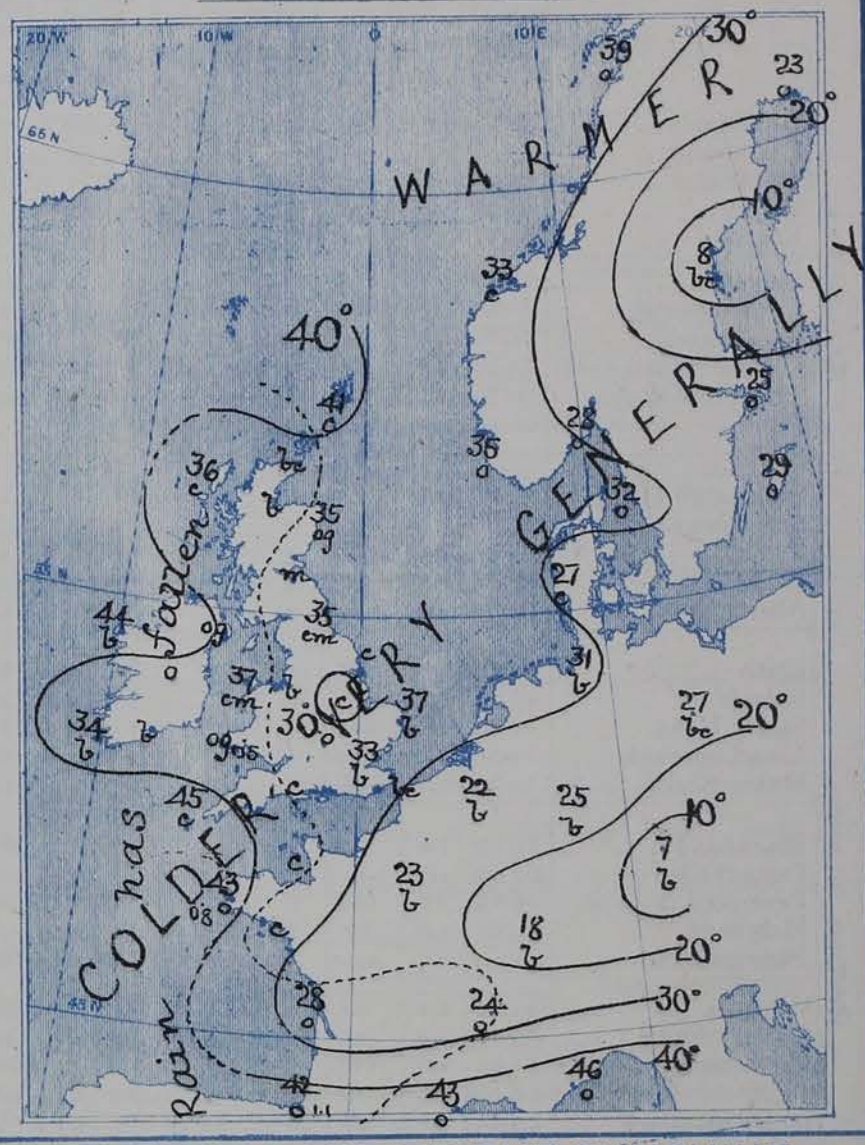


TEMPERATURE AND WEATHER.

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 more over Denmark and the south of Scandinavia, and exceeding 30·2 ins: over the North Sea, England, and Ireland.
Lowest, 29·5 ins: and less over the south of France and the north of Italy.
Gradients slight except over France, where they are somewhat steep on the southern Departments.
Barometer ceased rising at our extreme western stations, but still rising elsewhere – most in the east.

TEMPERATURE

Highest, (1) 46° at Nice, 43° at Perpignan; (2) 45° at Scilly, and 43° at Brest.
Lowest, (1) 8°F at Haparanda, 25° at Stockholm, 27° at Faroë; (2) 7° at Munich, 18° at Belfort, 22° at Brussels, 23° at Paris; (3) 27° at Loughborough, 32° at Oxford, 33° in London.
On the grass there were several degrees of frost at all inland stations. In Norway and Lapland the thermometer is rising.

WIND

Mainly E. over France, England, and Ireland, and still blowing strongly on our east coasts.
In the northwest of Ireland a S. breeze has set in.

WEATHER

Dull over the greater part of France, the North Sea and England, fine on the coasts of Ireland.
A little rain has fallen at our southwestern, western, and northern stations, and more in the west of France; sleet at Jersey.
Bright Sunshine recorded yesterday amounted to 5·6 hours at Hastings, and 2·9 hrs at Valencia. In the north there was none.

SEA

Rather rough in the extreme north and west, and on our east coasts, where, however, it is decreasing.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A continuation of cold dry weather is probable except in the extreme west and northwest, where a slight change is possible. In Lapland milder weather is probable.

FORECASTS

For the 24 hours ending at NOON on 10th Dec. 1899.

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	SW. and S. winds, light to fresh; fine at first then showers, milder.
1	SCOTLAND EAST	Light airs; fair generally, cold.
2	ENGLAND N.E.	E. breezes, moderate or light; cold, hazy.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	
6	SCOTLAND WEST	Same as No 0.
7	ENGLAND N.W.	E. to S. breezes, light; fair, cold
8	ENGLAND S.W.	
9	IRELAND NORTH	S. winds, light; fine, milder, perhaps a little rain.
10	IRELAND SOUTH	
	WARNINGS	NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Skudesnaes ...	30·28	32	31	SE	4	o	3
Sumburgh Head	29·91	43	40	SSE	7	o	7
Stornoway... ...	29·84	45	44	NW	4	o	4
Aberdeen	29·99	41	37	S	5	cgq	6
Shields	30·01	40	36	SSE	4	c	4
Malin Head ...	29·85	44	43	NNW	6	r	6
Blacksod Pt.. ...	30·03	45	41	NNW	4	bcp	4
Holyhead	29·89	43	42	SW	2	r	1
Valencia	30·11	48	43	NW	6	bcqpsh	6
Scilly	29·88	45	45	NNW	9	r	6
Jersey	29·76	43	42	NE	5	o	4
Portland Bill ...	29·87	36	34	ENE	3	o	3
Dungeness ...	29·86	35	34	E	7	b	6
London (Westminster)	29·90	38	35	E	4	bc	*
Yarmouth ...	29·97	37	34	ESE	7	b	6
Rochefort ...	29·70	48	47	N	4	r	*

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

Weather in morning fair but dull over the eastern half of Europe, fine and bright over the east of France, raining over the Mediterranean and the western parts of France, very variable and changeable over our Islands – clear at Loughborough, raining over the Irish Sea and some parts of the English Channel, thunder and lightning at Algiers. Rain later at our northern, western, and southwestern stations, sleet at Jersey, and a large quantity of rain in the west and southwest of France.

Temperature in morning still highest at the coast stations, but low and falling over the inland countries and over England. Morning readings highest 60° at Malta and Palermo, and above 50° over the Mediterranean generally, as well as at Brest and Scilly. Lowest (1) –8° F. at Archangel, +5° at Haparanda, 6° at Helsingfors. 15° at Moscow; (2) 13° at Munich, 19° at Lemberg and Kieff; 25° at Brussels, 33° at Paris; (3) 31° at Loughborough, 34° in London. Falling later over our Islands and Western Europe.

Wind (1) light to moderate over Northern Europe; strong to a gale from SE on our eastern coasts, but NNW strong in Ireland and the Scilly Islands, and moderate over the Bay of Biscay: (3) a separate cyclonic system prevalent over the Mediterranean, but no gales there. Wind moderating greatly later on our northeast coast, and NW breeze in Ireland dying down.

Barometer highest (1) 30·3 ins: and more to 30·1 ins: in an anticyclone covering Scandinavia and the eastern part of the North Sea; (2) 29·9 ins: and more in the west of Ireland. Lowest (1) 29·7 ins: and less, both in the southeast of Russia and off our own extreme northwest coast; 29·4 ins: over the northern part of the Mediterranean. Rising all day over western, northwestern and central Europe, but rise slackening in extreme west 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 9 p.m. in Sweden, Norway, and Germany. The time at each Station is the Standard Time of its Country.

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

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" Weekly " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Sunday 10th 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	30·31	18	S	0	c	30·35	+·07	−2	?	− 25	S	0	b	.	c	.	25	−2	—
	Hernösand	30·49	5	S	0	0	30·54	+·18	0	−3	− 18	S	0	b	.	0	.	9	−12	—
	Stockholm	30·50	23	S	0	0	30·58	+·20	28	26	+ 8	N	2	0	.	0	.	?	21	—
	Wisby	30·45	29	E	4	0	30·50	+·19	29	27	0	ESE	4	0	.	0	.	30	25	—
	Karlstad	30·51	13	N	2	0	30·56	+·18	15	15	?	N	2	0	.	0	.	.	.	—
	Bodö	30·17	39	S	2	0	30·28	+·13	39	38	0	S	4	r	2	0	.	39	32	0·08
	Christiansund ...	30·28	38	ESE	1	c	30·34	+·10	34	31	+ 1	ESE	2	b	4	c	.	37	32	—
	Skudesnaes ...	30·34	37	SE	2	bc	30·40	+·07	34	31	− 1	SE	6	bc	4	bc	.	38	34	.
	Færder (X'iania Fjord)	30·43	29	NE	2	0	30·52	+·20	26	25	− 2	NNE	2	0	1	0	.	48	25	—
	The Scaw (Skagen)	30·41	30	ESE	1	c	30·44	+·09	32	29	0	E	4	c	1	c	.	32	28	—
	Fanö	30·36	28	N	4	0	30·32	−·04	29	26	0	NE	3	b	.	0	.	28	27	—
British Islands	Sumburgh Head ...	30·16	41	SSW	1	c	30·08	−·04	41	39	0	S	4	0	6	c	.	45	40	0·03
	Stornoway	30·06	41	SW	3	b	29·86	−·16	42	39	+ 6	SW	6	0	5	c, b	2·6	45	34	—
	Wick	30·12	39	S	2	bc	30·01	−·13	34	32	+ 1	S	5	bc	5	bc	.	44	30	—
	Nairn	30·15	32	S	0	b	30·00	−·17	31	28	− 2	S	1	b	1	b	.	39	27	—
	Aberdeen	30·22	33	SSW	2	b	30·15	−·07	30	28	− 5	SW	2	bc	3	cm, b	0·0	37	29	—
	Leith	30·13	33	S	0	b	30·11	−·17	28	27	− 4	S	1	bc	.	b	.	38	25	—
	Shields	30·27	37	SSW	1	bm	30·16	−·10	30	28	− 5	SSW	1	c	2	f, bm	.	39	28	—
	Spurn Head ...	30·29	38	S	3	bc	30·15	−·09	37	35	− 2	ENE	1	ov	2	bc	.	46	33	—
	Loughborough ...	30·30	30	ESE	1	bc	30·19	−·08	29	28	+ 2	SE	1	ov	.	cm, bc, o	.	34	22	—
	Malin Head ...	30·07	35	SE	4	bm	29·81	−·37	40	40	+ 2	S	4	o	3	bm	.	40	36	0·01
	Blacksod Pt. ...	29·96	42	SSE	5	cq	29·71	−·46	46	45	+ 2	S	5	cp	5	bc, cq	.	46	39	0·86
	Donaghadee ...	30·15	41	SSE	4	o	29·95	−·27	41	41	+ 1	SSE	5	oq	4	o	.	42	38	—
	Liverpool (Bidston)	30·26	31	E	2	c	30·12	−·15	36	25	− 5	ESE	4	b	?	f, c	.	33	26	—
	Holyhead	30·20	35	SE	2	bc	30·00	−·22	38	33	+ 1	SSE	4	c	3	bc	.	38	33	—
	Parsonstown ...	30·08	40	SE	1	0	29·81	−·41	42	41	+ 11	SE	1	or	.	of	0·0	47	30	0·14
	Valencia	29·99	46	SE	5	0	29·76	−·46	48	47	+ 14	NW	4	op	5	ov, o	0·1	51	33	0·62
	Roche's Point ...	30·09	45	SSE	3	c	29·78	−·42	47	46	+ 8	S	8	r	5	c	.	47	39	0·35
	Pembroke (St. Ann's Hd.)	30·20	37	SE	4	c	29·95	−·26	42	41	+ 5	SE	6	cq	5	c	0·8	45	34	—
	Scilly	30·11	46	SE	4	c	29·82	−·29	46	44	+ 1	SSE	6	r	5	o, c	2·3	47	43	0·14
	Jersey (St. Aubin's) ...	30·17	39	ENE	3	bcm	30·12	−·02	32	29	− 6	SE	4	bc	3	bcm	.	41	31	—
	Portland Bill ...	30·23	36	ENE	4	c	30·09	−·11	36	34	+ 3	SE	5	o	4	c	.	37	31	—
	Dungeness	30·24	37	N	6	bc	30·21	+·04	34	32	− 2	SE	3	b	2	b, bc	.	39	32	—
	London (Brixton) ...	30·28	34	ESE	3	o	30·19	−·03	32	30	− 1	E	2	c	.	bc, o	0·0	37	31	—
	Oxford	30·29	28	E	2	b	30·17	−·07	27	26	+ 5	ENE	1	c	.	c, b	.	36	25	—
	Yarmouth	30·27	38	E	3	bc	30·15	−·08	36	35	− 1	WSW	2	oq	2	bc	.	42	35	—
Germany	Cuxhaven	30·29	30	WSW	1	b	30·18	−·09	30	30	− 1	NNE	3	o	.	b	.	32	28	—
	Berlin	30·23	31	SE	1	0	30·23	·00	16	15	− 11	E	3	b	.	0	.	32	16	—
	Wiesbaden	.	.	.	.	.	30·15	·00	27	27	+ 2	NE	2	o	.	.	.	30	23	—
	Munich	30·08	15	E	5	0	30·04	+·07	6	6	− 1	W	2	f	.	0	.	18	7	0·04
France & Netherlands	The Helder ...	30·29	31	E	1	0	30·17	−·12	30	28	+ 1	SSE	1	? r	0	0	.	34	27	—
	Brussels	.	.	.	.	.									.		.			
	C. Gris Nez ...	30·24	26	E	4	b	30·17	?	25	20	+ 3	SE	1	bc	2	b	.	34	21	—
	Paris	30·19	24	NNE	2	b	30·17	+·12	19	19	− 4	NE	1	bc	.	b	.	31	18	—
	Brest	30·17	39	E	1	b	29·99	−·11	36	35	− 7	ESE	4	0	3	b	.	46	32	—
	Lorient	30·14	38	NE	4	c	30·09	−·04	32	32	− 5	ESE	4	0	4	c	.	48	30	—
	Rochefort	30·13	32	NE	4	bc	30·08	+·02	25	23	− 5	ENE	3	b	.	bc	.	34	21	—
	Belfort	30·06	19	ENE	7	b	30·06	+·17	17	15	− 1	E	4	o	.	b	.	24	14	—
	Lyons	30·00	24	N	3	b	30·09	+·25	19	15	− 5	WNW	3	b	.	b	.	27	17	—
	Nice	29·58	42	SW	4	r	29·70	+·25	35	34	− 11	SW	2	r	4	r	.	50	34	0·46
	Perpignan	29·92	34	NW	4	b	29·93	+·32	33	31	− 10	NW	4	o	.	b	.	43	31	—
	Biarritz	30·04	35	ENE	3	o	30·06	+·17	31	28	− 11	ESE	4	bc	5	o	.	46	28	—
Span. Pen.	Corunna	30·23	54	N	5	0	30·08	−·17	48	46	− 2	SE	3	r	5	o	.	56	46	0·16
	Lisbon	30·23	54	NNW	4	c	30·19	−·07	54	51	0	W	1	r	.		.	59	52	—
	Azores (P. Delgada)	30·52	59	NW	3	c	30·50	·00	59	54	0	NNW	2	bc	1	c	.	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 recorded on the Tower of the Wesleyan Training College, Westminster*

Bright Sunshine yesterday Southport 0·0 *hrs.*

WEATHER CHARTS

FOR *Sunday, 10th December, 1899.*

BAROMETER, WIND AND SEA.

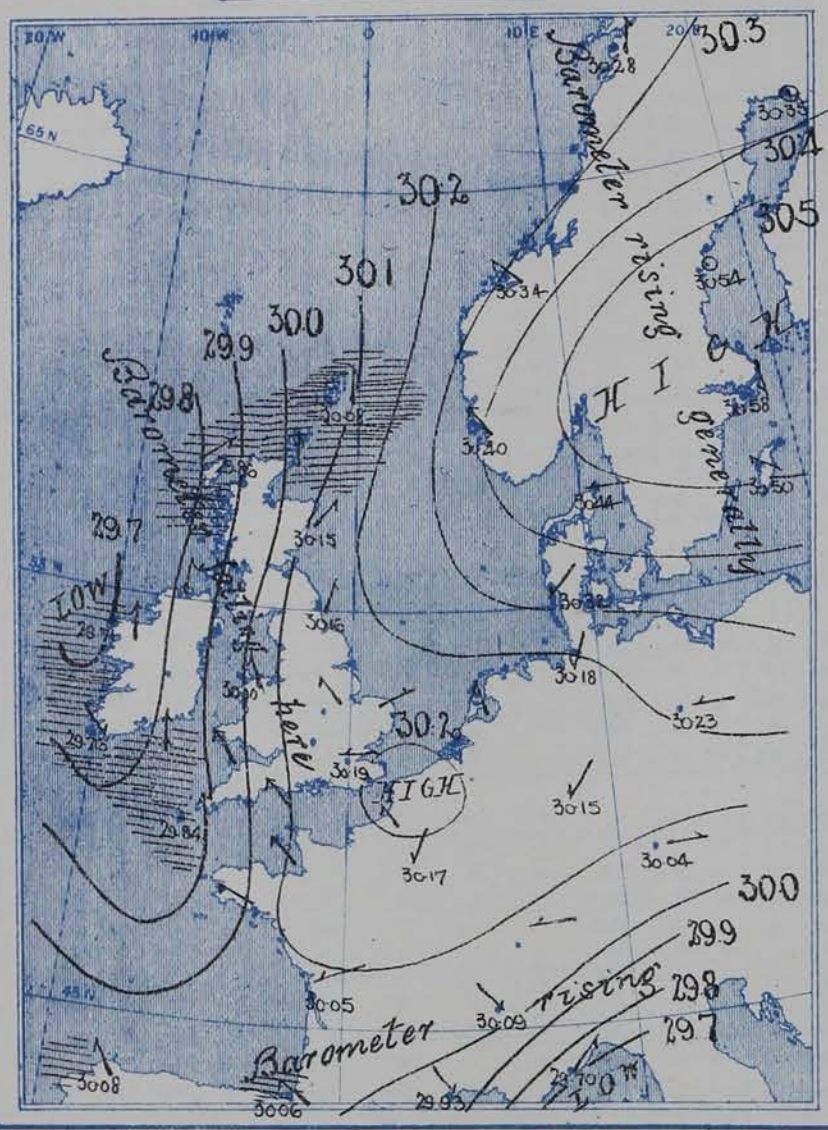
BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show 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*

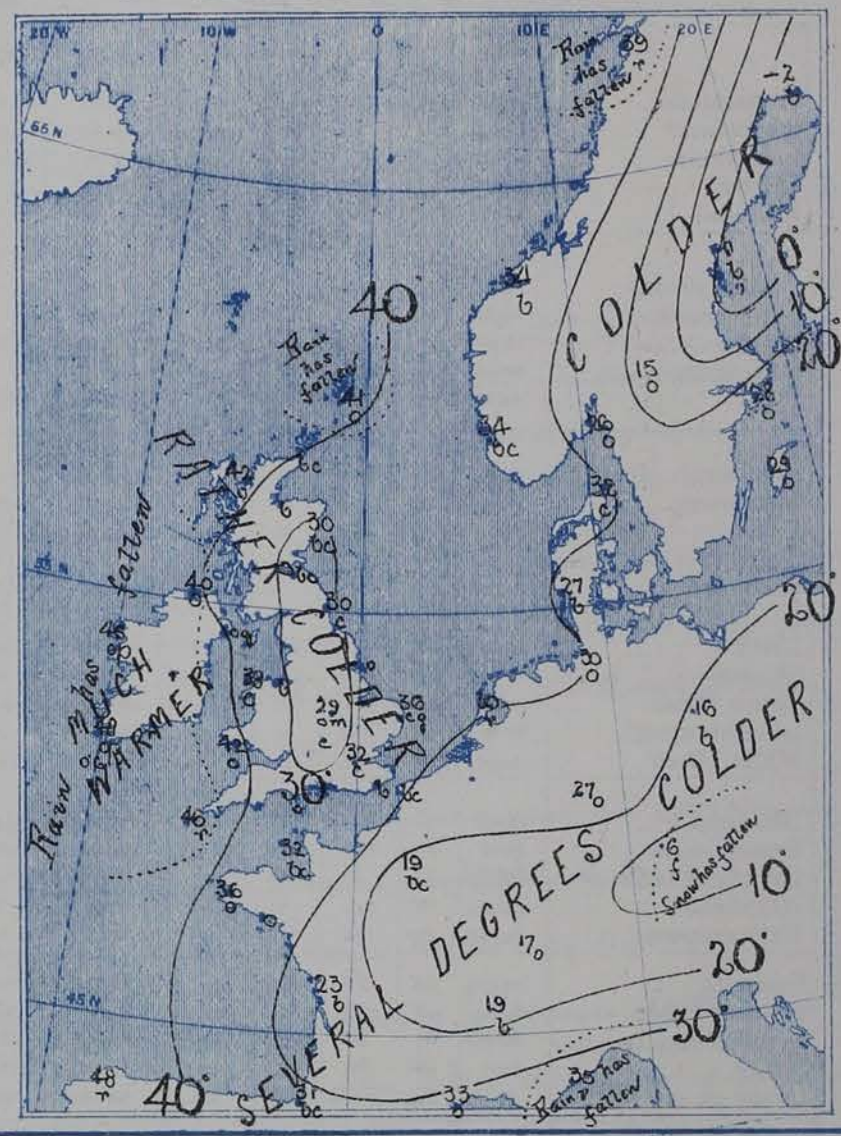


TEMPERATURE AND WEATHER.

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 more to 30·1 ins: in an anticyclone, covering Scandinavia, the North Sea, the Netherlands, the north of France, and east of England.
Lowest, (1) About 29·7 ins: to 29·9 ins: in a V shaped depression over Ireland and off the mouth of the English Channel; (2) 29·7 ins and less over the Gulf of Genoa.
Gradient rather steep in the west, slight in the east.
Barometer fallen over our Islands generally, most in Ireland, but inclined to rise again at Valencia.

TEMPERATURE

Highest, 48° to 46° on our extreme southwest coasts, 46° at Blackhead Point, 42° at Stornoway.
Lowest, (1) −2° at Haparanda, +29° at Stockholm; (2) 6°F. at Munich, 16° at Berlin, 17° at Belfast, 19° at Lyons and Paris.
The maximum yesterday touched 51° at Valencia and a reading of 47° was recorded both at Rochefort and Scilly. Over England, however, the maximum exceeded the freezing point by a very few degrees only, and in the southern and eastern parts of France the weather was very cold.

WIND

Light and anticyclonic at all but our western stations, where there was a fresh to very strong wind from the S.W. at Valencia, however, the wind has shifted to NW. and is moderate. Over France it is mainly NE.

WEATHER

Fair at all the eastern stations, dull and rainy in the west and unsettled generally in those regions. Rain is falling, locally, at the Hilder.
A great deal of rain was recorded at our southwestern stations
Bright Sunshine yesterday, 2·6 hrs at Stornoway and 2·3 hrs at Scilly, very little or none at our other stations.

SEA

Rough in the extreme north, rather so in the northwest and west generally, smooth in the southeast.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 11TH DEC: 1899.

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 3·40 pm yesterday to districts 0, 6, 9, 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.	WIND. Force.	WEA.	SEA.
Skudesnaes ...	30·33	38	34	SSE	2	c	2
Sumburgh Head	30·16	43	41	W	1	c	4
Stornoway... ...	30·10	45	42	SSW	3	c	3
Aberdeen	30·22	37	34	S	2	cm	3
Shields	30·27	39	35	SSW	1	f	3
Malin Head ...	30·12	39	38	SSE	4	bm	3
Blacksod Pt.. ...	30·07	43	40	SSE	4	bc	3
Holyhead	30·21	38	34	SE	2	bc	1
Valencia	30·09	46	42	SE	3	ov	5
Scilly	30·15	46	44	SE	2	o	5
Jersey	30·17	41	37	NE	4	bc	3
Portland Bill ...	30·21	36	34	ENE	3	c	3
Dungeness ...	30·22	35	34	N	6	b	5
London (Westminster)	30·26	38	32	E	4	bcm	*
Yarmouth ...	30·26	37	34	ESE	5	bc	*
Rochefort ...	30·11	32	30	NE	4	bc	*

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

Weather is mostly fine over the Continent as a whole, as well as over England and Ireland, but foggy in some places, rainy over the Mediterranean. Considerable rain at night on our own southwest coasts (0·6 in: at Valencia) and 0·16 in: at Corunna and Nice; remaining fair over England and the north of France.

Temperature fallen fast again over France, fallen also over Ireland and Scotland. Morning readings highest 43° to 45° at the mouth of the English Channel, 44° at Blacknod Point. Lowest −8° F. at Archangel, +8° at Haparanda, 13° at St Petersburg, 16° at Moscow; (2) 7° at Munich, 16° at Buda Pesth, 18° at Belfort; (3) 27° at Loughborough, 33° in London, 31° at Valentia. Rising later to 51° at Valencia, above 40° over Ireland generally, 47° at Scilly, 42° at Yarmouth. Not exceeding 37° in London nor 33° at Liverpool.

Wind subsiding over northwestern Europe, but still strong from ESE. on our eastern coasts; increasing from NE. and N. over the southern parts of the Continent, and blowing a gale from NW in the northeast of Spain. Increasing considerably from SE. in Ireland later, remaining SW (but backing) over Scotland

Barometer highest 30·4 in: to 30·3 in: over northern Europe, and exceeding 30·2 in: in a ridge extending thence over England and Ireland. Lowest (1) Below 30·2 in: over Scotland and the north of Ireland, and (2) 29·4 in: and less to 29·5 in: in a large depression over the Mediterranean. Falling decidedly in Ireland later, rising a little over England – briskly over France.

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, 11th 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	30·52	-2	N	0	b	30·55	+·20	6	6	+ 8	NNE	2	f	*	b	*	18	-4	-
	Hernösand	30·59	-4	N	0	b	30·65	+·11	-2	-2	+ 6	N	0	b	*	b	*	5	-8	-
	Stockholm	30·60	30	N	0	0	30·58	-·00	28	26	0	NE	2	0	*	0	*	30	23	-
	Wisby	30·52	29	SE	4	bc	30·50	-·00	26	24	- 3	SE	4	0	*	bc	*	30	25	-
	Karlstad	30·62	22	NW	2	0	30·56	-·00	25	24	+ 10	NE	4	0	*	0	*	*	*	-
	Bodö																*			
	Christiansund ...																*			
	Skudesnaes ...																*			
	Færder (X'iania Fjord)	30·55	30	SE	5	0	30·50	-·02	29	27	+ 3	NNE	6	0	3	0	*	30	25	-
	The Scaw (Skagen)	30·47	32	SE	4	c	30·41	-·03	33	31	+ 1	ESE	3	0	0	c	*	33	30	-
	Fanö	30·36	23	ENE	2	0	30·26	-·06	25	23	- 2	N	3	S	*	0	*	28	23	-
British Islands	Sumburgh Head ...	30·13	40	S	5	r	30·17	+·09	39	37	- 2	SE	6	0	6	0.r	*	43	38	0·07
	Stornoway	29·97	41	WSW	4	0	29·96	+·10	40	37	- 2	SSW	5	0	5	0d.0	0 0	44	35	0·05
	Wick	30·09	39	S	5	c	30·07	+·06	38	35	+ 4	S	6	c	6	c	*	40	32	-
	Nairn	30·10	32	S	1	b	30·10	+·10	31	29	0	N	0	b	0	b	*	36	24	-
	Aberdeen	30·17	33	SSW	2	bc	30·18	+·03	35	32	+ 5	SE	5	0qlpS	5	bc	2·4	38	29	0·08
	Leith	30·12	30	SSE	2	b	30·16	+·05	30	30	+ 2	SE	1	b	*	b	*	38	26	0·03
	Shields	30·13	37	N	0	0	30·18	+·02	37	34	+ 7	E	3	c	3	0.S	*	38	29	0·05
	Spurn Head ...	30·08	38	ENE	4	c	30·11	-·04	34	33	- 3	ENE	4	c	4	c.Sp	*	40	30	0·02
	Loughborough ...	30·12	32	N	1	0	30·16	-·03	31	30	+ 2	E	1	om	*	c.bc.om	*	38	29	-
	Malin Head ...	29·93	39	SSE	6	r	29·93	+·12	37	37	- 3	SSE	5	cqm	4	or	*	40	37	0·09
	Blacksod Pt. ...	29·90	47	S	2	cp	29·93	+·22	47	46	+ 1	SSW	4	cp	3	c. cp	*	47	40	0·20
	Donaghadee ...	30·05	40	S	3	cp	30·03	+·08	41	39	0	S	4	o	5	cp	*	42	39	0·02
	Liverpool (Bidston)	30·13	31	SE	3	b	30·16	+·04	30	29	+ 4	ESE	1	bc	?	b	*	34	26	-
	Holyhead	30·07	34	S	1	cm	30·14	+·14	31	28	- 7	SE	2	bcm	1	cm	*	38	28	-
	Parsonstown ...	29·97	41	SE	1	r	30·03	+·22	39	38	- 3	SE	1	o	*	dm	0·0	43	38	0·08
	Valencia	29·94	48	NNW	4	op	30·02	+·26	45	43	- 3	W	2	c	5	op	0·4	51	44	0·29
	Roche's Point ...	29·94	46	SE	5	r	30·04	+·26	48	47	+ 1	SSE	3	o	4	a.p	*	48	45	0·50
	Pembroke (St. Ann's Hd.)	30·01	39	ESE	5	c	30·13	+·18	37	36	- 5	E	3	o	3	o.c	0·0	43	28	-
	Scilly	29·81	44	ESE	8	o	30·07	+·23	43	43	- 1	SSE	4	o	6	r.o	0·0	47	43	0·41
	Jersey (St. Aubin's) ...	30·00	38	ESE	5	bcm	30·14	+·02	30	28	- 2	NE	2	bm	2	bcm	*	34	24	-
	Portland Bill ...	30·01	37	SE	4	o	30·14	+·05	31	29	- 5	NE	3	bc	3	o	*	39	28	-
	Dungeness	30·08	34	SSW	2	c	30·08	-·13	27	27	- 7	NNW	1	sf	2	c	*	?	26	-
	London (Brixton) ...	30·07	32	E	2	bc	30·13	-·06	31	30	- 1	N	1	qg	*	c.mq.os	0·0	38	30	0·03
	Oxford	30·12	29	E	1	0	30·14	-·03	30	30	+ 3	N	3	o	*	bc.os	*	35	26	-
	Yarmouth	30·03	36	NE	2	c	30·09	-·06	33	31	- 3	E	5	csp	5	c	*	37	30	0·29
France & Netherlands. Germany.	Cuxhaven	30·19	23	ESE	4	0	30·17	-·01	24	24	- 6	ENE	2	os	*	0	*	30	16	-
	Berlin	30·25	18	E	2	c	30·18	-·05	13	12	- 3	E	3	S	*	c	*	30	12	0·04
	Wiesbaden	*	*	*	*	*	30·14	-·01	21	20	- 6	N	2	S	*	*	*	30	16	0·04
	Munich	30·03	14	W	3	0	30·02	-·02	13	12	+ 7	W	4	0	*	0	*	16	6	-
	The Helder ...	30·10	30	E	2	c	30·15	-·02	23	22	- 7	E	2	0	1	c	*	32	23	-
	Brussels	*	*	*	*	*	30·15		23	23		ESE	1	S	*	c	*	31	17	0·08
	C. Gris Nez ...	30·11	27	S	1	b	30·03	-·14	34	31	+ 9	N	6	o	6	b	*	34	25	-
	Paris	30·09	25	E	2	b	30·13	-·04	15	15	- 4	ENE	1	bc	*	b	*	31	14	-
	Brest	30·24	35	SE	5	r	30·11	+·12	30	30	- 6	E	2	b	2	r	*	37	23	-
	Lorient	29·92	32	SE	5	S	30·12	+·03	25	25	- 7	ENE	4	o	5	S	*	41	25	-
	Rochefort	30·03	28	ESE	3	o	30·07	+·02	21	19	- 2	E	4	bc	*	c	*	33	19	-
	Belfort	30·09	16	E	2	b	30·16	+·10	12	10	- 5	ENE	4	m	*	b	*	22	10	-
	Lyons	30·07	20	NNW	1	b	30·14	+·05	13	12	- 6	NNW	1	b	*	b	*	25	13	-
	Nice	29·73	36	SW	2	bc	29·85	+·15	36	34	+ 1	E	2	r	2	bc	*	43	34	0·04
	Perpignan	29·93	35	NW	3	b	29·97	+·04	24	22	- 9	E	0	bc	*	b	*	44	21	-
	Biarritz	29·89	39	ENE	3	0	29·91	-·15	37	37	+ 6	E	2	c	5	0	*	43	31	0·32
Span. Pen.	Corunna																*			
	Lisbon	30·19	55	NNW	1	0	30·22	+·03	53	49	- 1	SSE	1	bc	*	0	*	59	52	-
	Azores (P. Delgada)	30·51	58	N	0	b	30·50	·00	57	55	- 2	NW	3	0	2	b	*	66	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 recorded on the Tower of the Wesleyan Training College, Westminster*

Bright Sunshine yesterday Southport 4·3 hrs.

WEATHER CHARTS

FOR Monday, 11th December, 1899.

BAROMETER, WIND AND SEA.

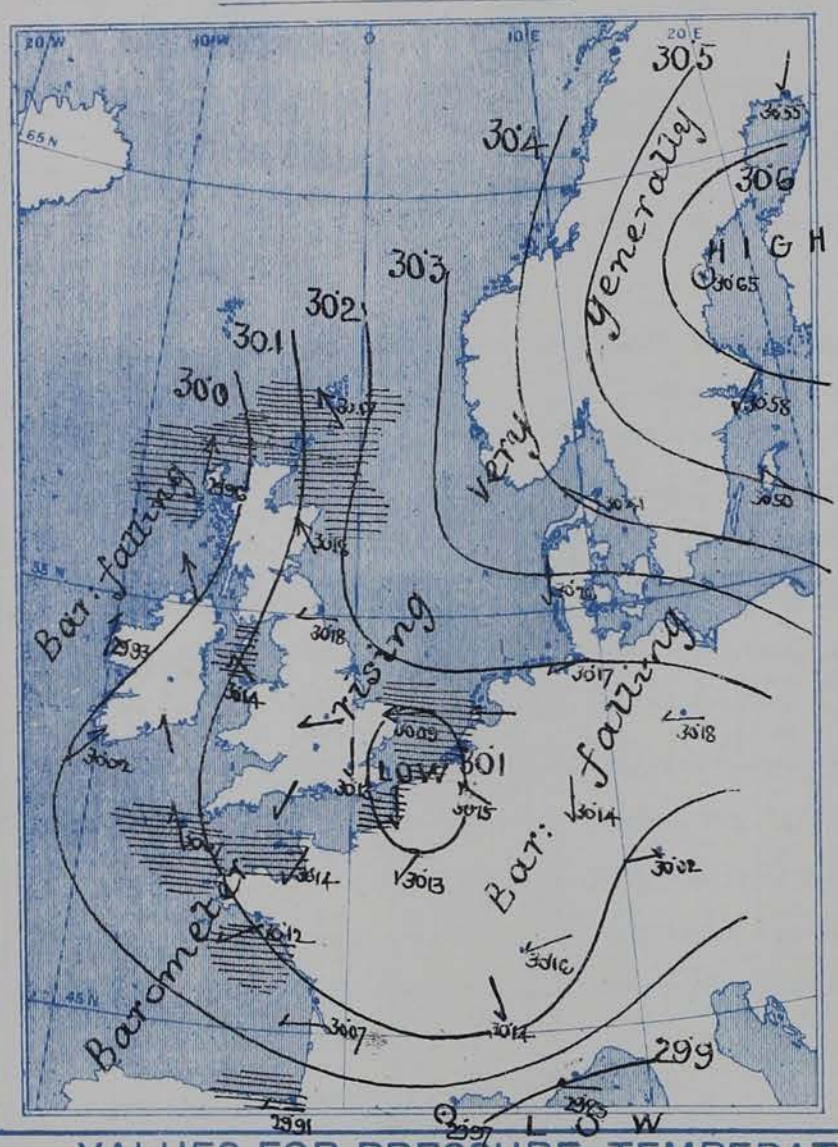
BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show 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* ▓

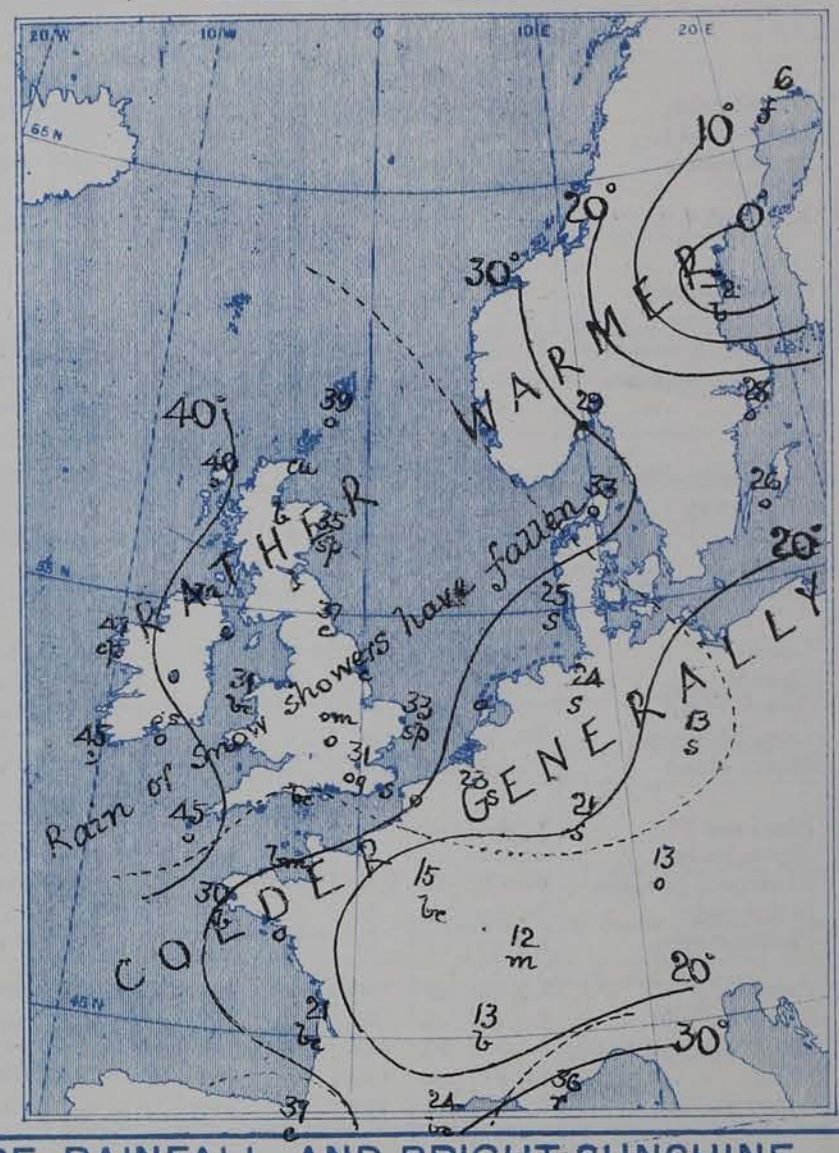


TEMPERATURE AND WEATHER.

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	29·885	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, 30·6 ins: and more to 30·2 ins: in a large anticyclone covering Scandinavia, the Danish Peninsula, and the North Sea – the central area being over Sweden and the Gulf of Bothnia.
Lowest, (1) Below 30·0 ins: over the northwest of our Islands, and (2) below 29·9 ins: over the south of France; a very shallow local depression lies over Belgium and the southeast of England.
Gradient slight in most places, but moderate for S'ly winds in the west.
Barometer rising at all but our most northwestern and western stations.

TEMPERATURE

Highest, 48° at Rockenpoint and above 45° in the west and south of Ireland generally and at Scilly.
Lowest (1) +2° at Hernösand, +6° at Haparanda, +25° at Karlstad; (2) 12° at Belfort, 13° at Berlin and Munich, 15° at Metz; (3) 30° at Oxford 31° in London and at Loughborough.
It rose yesterday to between 51° and 45° on our western coasts, and to 44° at Stornoway, but did not exceed 34° at Jersey, 35° at Oxford, 38° in London.

WIND

Very light and anticyclonic (mainly N to E) over the eastern parts of our area, S' and fresh in the west and north.
It blew a gale from the S'ward at some of the Irish stations yesterday.

WEATHER

(1) Very quiet at the eastern and northeastern stations as a whole, gloomy in many places, with slight snow in the southeast.
(2) Dull and gloomy in the west, with slight rain in places.
Rain or snow has fallen in slight amount in many parts of the United Kingdom and halos have been seen over England.
Bright Sunshine recorded yesterday, amounted to about 5 hours on our southeast coasts, 4·3 hrs at Southport, 2·4 hrs at Aberdeen, none in London, almost nil in Ireland.

SEA

Rough on most parts of our coasts as well as over the Bay of Biscay.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone over Scandinavia and the North Sea is still in force and the varying E' to N' breezes in the eastern and central districts are likely to continue, with cold weather and fog at times.
The S' wind in the west and north shows no decided indication of permanent change.

FORECASTS

For the 24 hours ending at NOON on 12TH DEC. 1899.

DISTRICTS.		FORECASTS.
▼ 0	SCOTLAND NORTH	S'ly and SW'ly winds, fresh to strong; some rain.
1	SCOTLAND EAST	
2	ENGLAND N.E.	Wind varying between N. and E.; fair, foggy at times, dry, cold.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	
▼ 6	SCOTLAND WEST	S'ly and SW'ly breezes, possibly shifting to NW. later, rain at times, bright intervals.
7	ENGLAND N.W.	
8	ENGLAND S.W.	
▼ 9	IRELAND NORTH	
▼ 10	IRELAND SOUTH	
	WARNINGS	The South Cone is still flying in districts 0, 6, 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.	WIND. Force.	WEA.	SEA.
Skudesnaes ...	30·45	38	34	E	4	c	3
Sumburgh Head	30·13	42	40	S	4	o	6
Stornoway... ...	29·91	44	40	SSW	4	o d	4
Aberdeen							
Shields							
Malin Head ...	29·84	39	39	S S E	6	o	3
Blacksod Pt.. ...	29·79	47	46	S	4	c	4
Holyhead							
Valencia							
Scilly	29·77	46	45	SE	8	r	6
Jersey	30·01	34	32	ESE	5	bc	4
Portland Bill ...							
Dungeness ...	30·09	34	32	S	2	c	2
London (Westminster)							*
Yarmouth ...	30·07	36	34	NNW	2	c	2
Rochefort ...	30·11	33	32	ESE	2	b	*

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

Continental Information not received.

SUMMARY OF CHANGES IN THE WEATHER OVER EUROPE FROM THE 3rd TO THE 9th DEC: 1899

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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

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

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„ Weekly „ „ £1 10 0 „

DAILY WEATHER REPORT

for 8 a.m. on Tuesday 12th 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	30·51	18	S	2	o	30·53	−·02	10	8	+ 4	S	2	o	*	o	*	23	−4	—
	Hernösand	30·57	2	2	o	o	30·52	−·13	12	11	+ 14	2	o	o	*	o	*	12	−8	—
	Stockholm	30·47	28	2	o	o	30·43	−·15	30	29	+ 2	SE	2	o	*	o	*	30	25	—
	Wisby	30·42	24	E	4	o	30·36	−·15	23	22	− 3	SE	4	6	*	o	*	36	21	—
	Karlstad	30·39	28	ENE	2	o	30·34	−·22	28	27	+ 3	ESE	4	o	*	o	*	*	*	—
	Bodö	30·30	32	E	4	b	30·10	−·37	33	29	− 2	E	6	b	2	b	*	35	28	—
	Christiansund ...	30·14	36	SE	1	o	30·11	−·38	35	32	+ 1	S	2	c	4	o	*	36	27	—
	Skudesnaes ...	30·19	36	ESE	8	o	30·04	−·39	35	32	+ 2	ESE	6	o	4	c.o	*	36	30	*
	Færder (X'iania Fjord)	30·34	28	NE	5	o	30·32	−·18	28	25	− 1	SE	2	o	2	o	*	29	27	—
	The Scaw (Skagen)	30·28	30	SE	2	o	30·19	−·22	31	30	− 2	ESE	4	o	1	o	*	34	28	—
	Fanö	30·12	29	ENE	3	o	30·06	−·20	19	19	− 6	ENE	2	o	*	o	*	28	19	0·12
British Islands	Sumburgh Head ...	29·84	38	SE	7	o	29·68	−·49	37	37	− 2	S	5	r	7	c.o	*	40	36	0·19
	Stornoway	29·48	42	SSW	9	r	29·69	−·27	35	33	− 5	WNW	3	o	3	o.r	0·0	45	32	0·70
	Wick	29·71	33	S	8	c	29·65	−·42	34	34	− 14	NW	2	o	4	c.s	*	40	30	0·15
	Nairn	29·70	35	SSW	4	c	29·71	−·39	35	32	+ 4	SW	1	b	1	c	*	38	28	—
	Aberdeen	29·88	36	SSE	7	rq	29·79	−·39	33	33	− 2	SSW	2	osgrw	4	sfq.rq	0·4	37	31	0·09
	Leith	29·88	31	SSE	2	o	29·78	−·38	29	29	− 1	2	o	f	*	o.s	*	37	27	0·36
	Shields	30·01	33	SSE	3	bc	29·79	−·39	31	31	− 6	SE	3	s	3	csp.bc	*	37	29	0·20
	Spurn Head ...	30·03	31	SW	3	c	29·83	−·28	32	?	− 2	SSE	4	bc	4	c	*	46	28	—
	Loughborough ...	30·07	27	ESE	1	b	29·80	−·36	30	30	− 1	SE	1	s	*	c.bm.os	*	34	26	0·08
	Malin Head ...	29·49	39	S	7	r	29·77	−·16	43	39	+ 6	NW	4	bp	3	o.r	*	45	?37	0·10
	Blacksod Pt. ...	29·37	49	SSW	9	rq	29·82	−·11	42	38	− 5	NNW	2	b	3	rq	*	49	38	1·10
	Donaghadee ...	29·81	40	S	6	r	29·72	−·31	44	43	+ 3	N	4	c	4	r	*	43	38	0·03
	Liverpool (Bidston)	29·98	29	ESE	3	bc	29·70	−·46	31	30	+ 1	ESE	4	o	?	bc.s	*	33	27	0·12
	Holyhead	29·89	38	S	4	o	29·70	−·44	46	42	+ 15	N	8	oq	6	c.o	*	46	28	0·17
	Parsonstown ...	29·66	44	SE	1	or	29·85	−·18	35	34	− 4	NW	1	bc	*	or	0·0	48	35	0·45
	Valencia	29·56	51	SSE	5	r	29·91	−·11	46	41	+ 1	N	4	bc	5	rq.r	0·0	54	44	0·79
	Roche's Point ...	29·72	48	SSW	7	r	29·87	−·17	43	40	− 5	NNW	4	b	4	rq	*	49	41	0·60
	Pembroke (St. Ann's Hd.)	29·96	41	SSE	6	r	29·74	−·39	45	43	+ 8	NNE	5	cg	3	r	0·0	46	?	0·55
	Scilly	29·88	48	SSW	4	o	29·72	−·35	48	46	+ 3	NNW	7	o	6	r.o	0·0	50	43	0·61
	Jersey (St. Aubin's) ...	30·04	36	WSW	1	cm	29·69	−·45	36	35	+ 6	SE	6	rm	5	b.cm.rsbz	*	41	30	0·30
	Portland Bill ...	30·05	35	E	3	c	29·70	−·44	38	38	+ 7	SE	6	or	6	bm.c	*	38	29	0·35
	Dungeness	30·06	26	N	1	c	29·83	−·25	34	32	+ 7	S	4	o	4	c	*	?	25	—
	London (Brixton) ...	30·07	31	NE	1	b	29·81	−·32	32	30	+ 1	NE	1	og	*	ofg.bm	0·0	34	27	—
	Oxford	30·04	28	SE	2	c	29·78	−·36	32	32	+ 2	SE	2	os	*	c.os	*	32	27	0·06
	Yarmouth	30·06	31	E	3	bc	29·85	−·24	28	27	− 5	W	2	baf	4	c.bc	*	34	24	0·02
Germany.	Cuxhaven	30·04	23	E	2	o	29·98	−·19	14	14	− 10	SE	2	o	*	s.o	*	?	10	0·04
	Berlin	30·09	15	2	o	s	30·11	−·07	10	10	− 3	E	2	b	*	s	*	18	10	0·43
	Wiesbaden	*	*	*	*	*	30·01	−·13	20	19	− 1	N	1	o	*	*	*	27	18	—
	Munich	30·01	b	SE	2	b	29·97	−·05	−2	−2	− 15	NW	2	b	*	b	*	18	−2	0·04
France & Netherlands.	The Helder ...	30·06	24	2	o	o	29·82	−·31	34	31	+ 11	W	1	o	1	o	*	34	23	—
	Brussels	*	*	*	*	*	29·96	−·19	14	14	− 9	SSE	1	f	*	f	*	29	12	0·08
	C. Gris Nez ...	30·05	22	SE	3	m	29·86	−·17	23	21	− 11	SSE	3	m	3	m	*	34	19	—
	Paris	30·10	21	2	o	o	29·92	−·21	19	18	+ 4	SE	2	bc	*	o	*	28	15	—
	Brest	30·06	37	SE	2	o	29·59	−·52	51	50	+ 21	NNW	5	c	5	o	*	51	30	0·95
	Lorient	29·91	32	SE	2	o	29·63	−·49	37	37	+ 12	ENE	5	r	5	o	*	41	25	1·30
	Rochefort	30·08	28	ENE	3	bc	29·76	−·31	30	28	+ 9	SE	5	s	*	bc	*	34	21	0·08
	Belfort	30·08	17	ENE	4	o	30·02	−·14	10	9	− 2	SSW	1	m	*	o	*	23	9	—
	Lyons	30·12	?	NNW	3	?	30·02	−·12	15	14	+ 2	NW	1	b	*	?	*	24	13	—
	Nice	29·91	37	ENE	4	o	29·72	−·13	31	28	− 5	E	4	bc	3	o	*	41	28	0·08
	Perpignan	30·02	41	NW	3	b	29·91	−·06	41	36	+ 17	2	o	o	*	b	*	45	24	—
	Biarritz	30·06	47	WNW	3	bc	29·82	−·00	50	46	+ 13	SW	6	r	5	bc	*	60	37	—
Span. Pen.	Corunna																*			
	Lisbon	30·31	55	SSW	1	o	30·29	+·07	55	53	+ 2	WSW	3	o	*	o	*	59	54	—
	Azores (P. Delgada)	30·52	62	S	4	o	30·50	·00	62	59	+ 5	S	4	bc	4	o	*	64	57	—

For Explanation of Columns, see bottom of last page.

† *Received too late for Insertion in Charts on next page.*

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

Bright Sunshine yesterday Southport 3·8 hrs.

WEATHER CHARTS

FOR Tuesday, 12th December, 1899.

BAROMETER, WIND AND SEA.

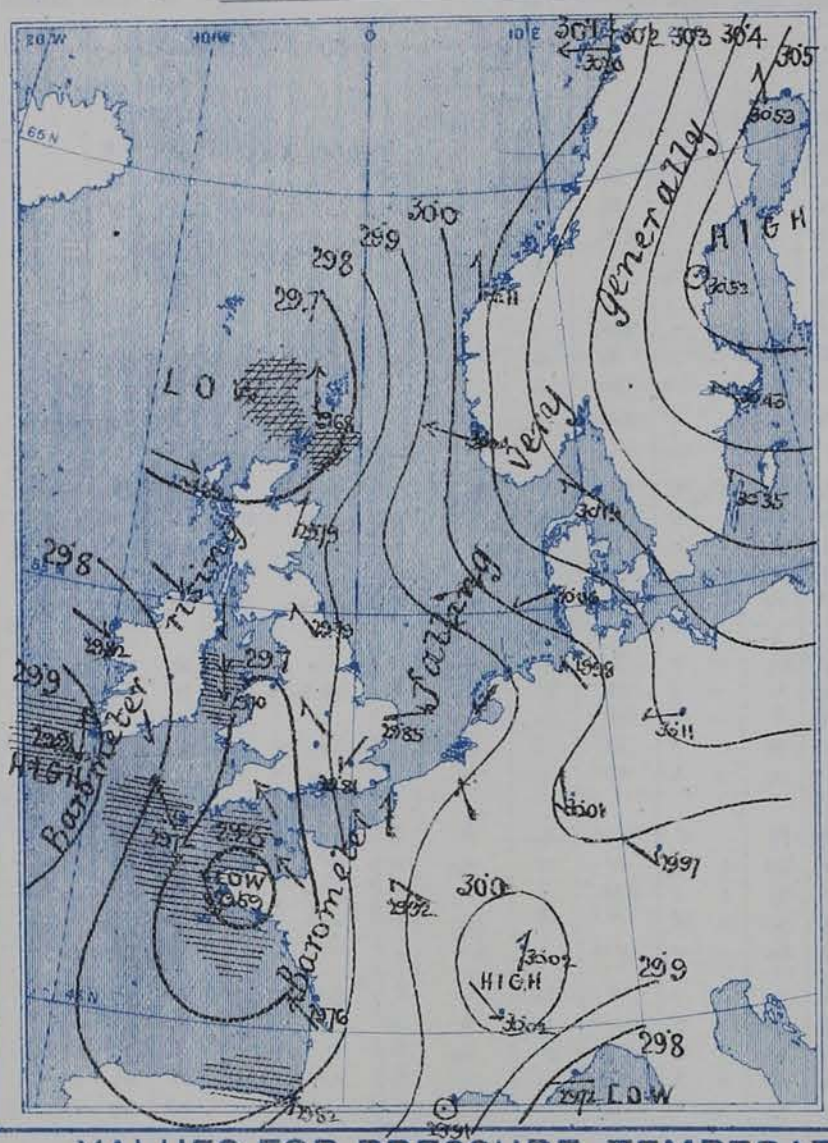
BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show 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* ▒

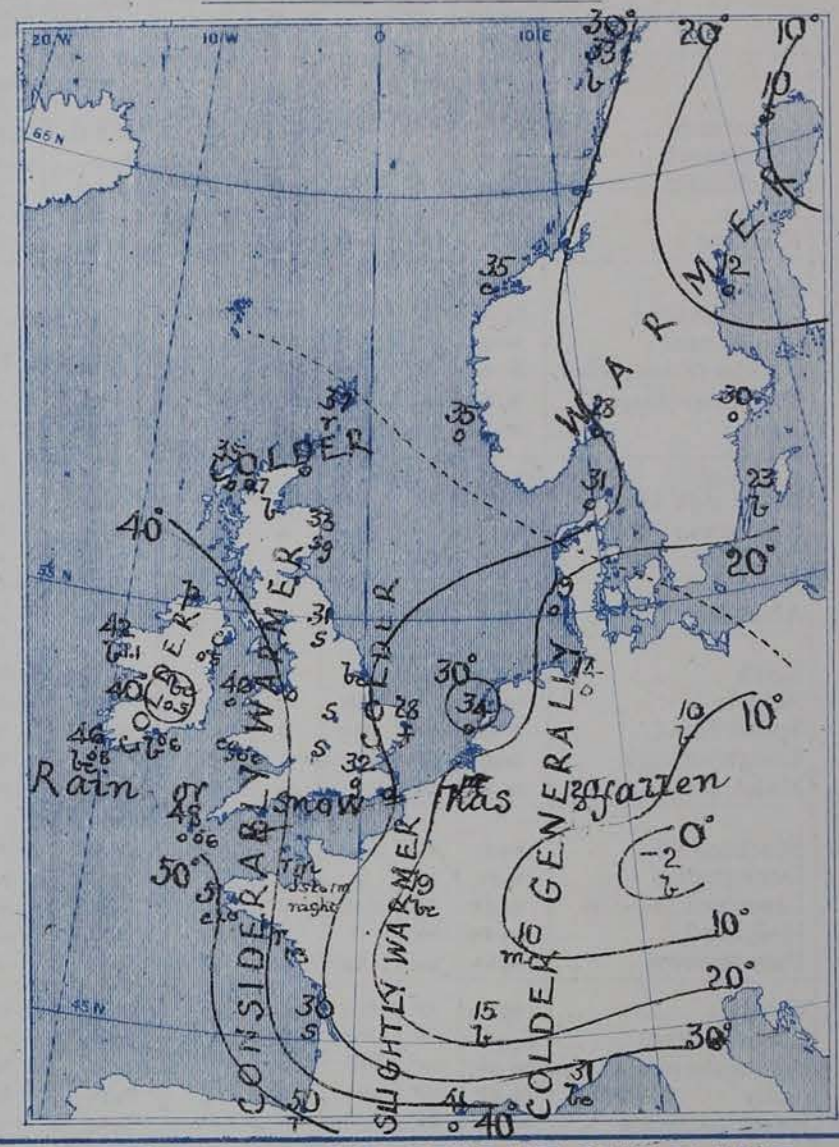


TEMPERATURE AND WEATHER.

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 Gulf of Bothnia.
Lowest 29.6 ins. and less in an elongated depression with its centre over Brittany; 29.7 ins. and less in another disturbance lying off the N. of Scotland.
Gradients rather steep over Norway and the N^W^n. parts of the North Sea, moderate or light elsewhere.
Barometer rising in the W. and N. of our Islands, but falling elsewhere.

TEMPERATURE

Highest 51° at Brest, 50° at Biarritz, 48° at Scilly, 46° at Valencia (Ireland) and Holyhead, 45° at Pembroke.
Lowest (1) −2° F. at Munich, +10° at Berlin and Belfort, and 14. at Ceschewer and Brussels; (2) 10° at Hapsaranda, and 12° at Hernösand.
Sharp frost occurred last night in many parts of Gt. Britain, the lowest readings reported being (1) In the screen 24° at Yarmouth, 25° at Dungeness, and 26° at Loughborough; (2) on the grass 18° at Loughborough.

WIND

N^ly^ or NW^ly^ on our western coasts, and strong to a gale in force at Holyhead and Scilly.
S^ly^ or SE^ly^ over the eastern, central and southern parts of Gt. Britain, and also over the greater part of France; strong in force at some of the English Channel stations.
E^ly^ or SE^ly^ over Scandinavia, Denmark and north Germany, and strong in force on some parts of the Norwegian coasts.

WEATHER

Cloudy or dull over W^n^ Europe as a whole, with snow over central England and the E. of Scotland and rain at some of the Channel stations, as well as in the W. of France.
Fine in Ireland and also in many parts of Germany and the E. and S. of France.
Since yesterday morning rain or snow has fallen in most parts of W^n^ Europe, the largest amounts being 1·3 in. at Lorient, 1·1 in. at Blacksod Point, 1·0 in. at Brest, and 0·8 in. at Valencia (Ireland). Thunder and lightning occurred at Jersey in the night.

SEA

High at Stornburgh Hd., rough on our W. and SW coasts generally, and rather rough in the Bay of Biscay.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

In the course of the past night a depression has moved N^wds^ along our extreme W^n^ coasts, while a well marked secondary system has advanced E^wds^ to Brittany. Further falls of snow are probable in many parts of England, giving place later to cold rain.

FORECASTS

For the 24 hours ending at NOON on 13^TH^ DECEMBER 1899.

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	SW^ly^ and S^ly^ winds, cloudy, some snow.
1	SCOTLAND EAST	
2	ENGLAND N.E.	SE^ly^ to variable breezes, unsettled, some snow.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	S^ly^ to variable breezes, some snow at first, milder later, with rain.
5	ENGLAND SOUTH	
6	SCOTLAND WEST	NW^ly^ to W^ly^ winds, fresh, changeable, some cold showers.
7	ENGLAND N.W.	N^ly^ winds, strong to a gale at first, moderating and backing later, changeable, some showers, colder.
8	ENGLAND S.W.	
9	IRELAND NORTH	N^ly^ to NW^ly^ winds, backing later, fair generally, colder.
10	IRELAND SOUTH	
	WARNINGS	At 3.40 pm. yesterday to districts 0, 1, 6, 9 and 10, and at 7.15 pm. to districts 2, 7 and 8 Hoist Small 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.	WIND. Force.	WEA.	SEA.
Skudesnaes ...	30·34	33	32	E.	4	c	3
Sumburgh Head	29·96	38	33	SE.	6	c	6
Stornoway... ...	29·71	45	42	SSW	9	o	9
Aberdeen	30·04	36	32	SSE.	5	o[s]p	5
Shields	30·10	36	34	SE.	3	c[s]p	3
Malin Head ...	29·72	39	38	SSE.	6	o	4
Blacksod Pt.. ...	29·64	48	46	SSW	6	r	5
Holyhead	30·00	38	34	SSE.	2	c	1
Valencia	29·82	47	44	S	2	r[s]	6
Scilly	29·96	50	46	S	5	r	6
Jersey	30·12	40	35	NNE.	2	c	2
Portland Bill ...	30·11	35	33	ENE.	2	c[s]mw	2
Dungeness ...	30·07	32	31	N	1	c	2
London (Westminster)	30·10	33	31	NNE.	3	o[s]mw	4
Yarmouth ...	30·09	32	30	ENE.	4	c	5
Rochefort ...	30·04	[illegible]	[illegible]	ENE.	3	c	4

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

Weather in morning fair or fine over W^rn and S^rn Europe as a whole, but dull at several of our W^rn and S^rn stations; snow falling at Aberdeen, Yarmouth and Dungeness. Fine in the W. of Norway, and also over the Gulf of Bothnia, but dull over N^rn, E^rn and central Europe as a whole, with snow in many places. Heavy rain falling Lately in the W. and extreme N. of our Islands, and also in the NW. of France, and snow in the E^rn and central parts of Gt. Britain, thunder and lightning occurring at Jersey at night.

Temperature fallen over England, France, Italy and the greater part of central Europe, changed rather irregularly elsewhere. Morning readings, highest (1) 58° at Malta, 57° at Athens, and 55° at Nemours and Oran; (2) 57° at Corunna. Lowest (1) −2° F. at Hernosand, and +6° at Haparanda; (2) 6° at Kiew, and 7° at Kharkow; below 20° in several parts of Germany and France, and below the freezing point in many parts of Gt. Britain. Daily maxima below 20° at some of the German stations, below 25° in the E. of France, and below 35° over central and SE^rn England; thermometer rising to between 45° and 50° on our W^rn coasts, and to 54° at Valencia (Ireland).

Wind E^ly over Denmark, N. Germany the S. of Scandinavia and the greater part of England and France, light or moderate in force in most places, but strong at Skudenaes and Cuxhaven. Moderate to fresh from the SE^rn or S^rn in Ireland and Scotland. Light from the N^rn or NW^rn over the greater part of Russia and Austria; variable over southern Europe generally. Subsequently increasing to a gale from the S^rn on the Irish and Scotch coasts; no decided change occurring elsewhere.

Barometer highest 30.6 ins. and upwards over Finland and the Baltic provinces, 30.1 ins. and upwards in an anticyclone covering the greater part of NW^rn, N^rn and E^rn Europe, and also in another system over Portugal. Lowest 29.8 ins. and less in a depression over Corsica and the Gulf of Genoa; below 30.1 ins. in a very shallow system over the extreme E. and SE. of England and the NE. of France. Deep depression appearing later off our extreme W^rn coasts, and barometer falling quickly in Ireland and the W. 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; [illegible] (haze); 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 [illegible] and at 7 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 France at 8 p.m. in Sweden, Norway, and Germany. The time at each Station is the Standard Time of its Country.

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

for 8 a.m. on Wednesday, 13th 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	30·51	16	S	2	0	30·46	-·07	20	19	+ 10	SW	2	c	*	0	*	20	3	-
	Hernösand	30·48	21	S	0	0	30·40	-·12	25	23	+ 13	E	2	c	*	0	*	25	-2	-
	Stockholm	30·42	27	E	2	0	30·32	-·11	27	26	- 3	ENE	2	c	*	0	*	30	25	-
	Wisby	30·34	26	SE	4	bc	30·25	-·10	26	25	+ 3	ESE	4	c	*	bc	*	28	21	-
	Karlstad	30·34	29	NE	2	0	30·27	-·07	26	25	- 2	NE	2	c	*	0	*	*	*	-
	Bodö	30·17	26	ENE	5	b	30·23	+·13	23	21	- 10	ENE	6	b	2	b	-	34	21	-
	Christiansund ...	30·10	36	SE	2	b	30·08	-·03	32	28	- 3	ESE	3	b	4	b	-	36	30	-
	Skudesnaes ...	30·13	33	E	6	0	30·01	-·03	34	32	- 1	E	6	s	4	0	-	36	32	-
	Færder (X'iania Fjord)	30·27	31	E	4	0	30·19	-·13	31	29	+ 3	E	4	c	?	0	*	?	?	-
	The Scaw (Skagen)	30·19	32	SE	4	c	30·14	-·05	31	31	0	SE	3	c	0	0	*	34	30	-
	Fanö	30·15	18	ESE	4	b	30·08	+·02	16	15	- 3	SE	4	c	*	b	*	19	14	-
British Islands.	Sumburgh Head ...	29·77	40	W	0	c	29·65	-·03	37	35	0	SE	6	r	7	o,c	*	42	33	0·27
	Stornoway	29·73	39	W	3	c	29·42	-·27	41	39	+ 6	SSW	5	o	5	bc.c	3·2	42	32	0·03
	Wick	29·76	30	S	1	bc	29·50	-·15	38	36	+ 4	S	5	ou	4	bc	*	39	27	-
	Nairn	29·82	28	W	0	b	29·52	-·19	27	27	- 8	W	0	bm	1	b	*	38	26	-
	Aberdeen	29·87	32	WSW	1	bc	29·58	-·21	37	34	+ 4	SE	5	ogq	6	cm.bc.s	0·0	38	29	0·24
	Leith	29·87	32	W	0	0	29·56	-·22	29	29	0	W	0	bcm	*	0	-	32	20	-
	Shields	29·86	33	W	1	c	29·61	-·18	32	32	+ 1	SW	1	om	2	S.c	-	34	26	0·08
	Spurn Head ...	29·83	33	SSE	2	0	29·61	-·22	34	34	+ 2	SSE	5	s	4	o,s	-	?	30	0·02
	Loughborough ...	29·83	31	SE	1	0	29·61	-·19	32	32	+ 2	SE	3	ogmsp	*	oms,gm	-	32	30	0·08
	Malin Head ...	29·80	40	SSE	1	b	29·35	-·42	36	35	- 1	SSE	6	ogm	4	bc.b	-	44	35	-
	Blacksod Pt. ...	29·81	44	WSW	2	b	29·31	-·51	42	41	0	S	5	r	4	b	*	47	40	0·12
	Donaghadee ...	29·92	44	W	2	bc	29·47	-·25	40	38	- 4	S	4	og	4	bcm	-	44	36	-
	Liverpool (Bidston)	29·82	31	NNE	1	0	29·53	-·17	31	30	0	E	2	og	?	S,o	*	33	30	-
	Holyhead	29·82	41	W	3	c	29·49	-·21	34	32	- 12	SE	1	f	1	c	*	46	32	-
	Parsonstown ...	29·86	34	SE	1	b	29·39	-·46	37	35	+ 2	SE	1	c	*	b	6.1	42	29	-
	Valencia	29·87	41	NNE	1	0	29·27	-·64	45	44	- 1	S	3	gmr	5	bv,o	3.1	48	37	0·47
	Roche's Point ...	29·86	39	NNW	1	b	29·38	-·49	47	44	+ 4	S	6	o	4	b.p	*	48	38	0·04
	Pembroke (St. Ann's Hd.)	29·81	40	NNE	3	bc	29·48	-·26	39	38	- 6	ENE	3	r	3	o,bc	0·5	46	35	0·10
	Scilly	29·81	47	NNW	5	c	29·44	-·28	45	43	- 3	ESE	1	c	4	c	4·2	52	43	-
	Jersey (St. Aubin's) ...	29·84	38	NNW	5	cq	29·59	-·10	35	32	- 1	ESE	5	om	4	r.og	*	38	34	0·05
	Portland Bill ...	29·81	41	S	3	0	29·56	-·14	40	38	+ 2	S	6	or	5	or.o	-	43	36	0·31
	Dungeness	29·86	34	SE	4	0	29·72	-·11	32	30	- 2	S	6	c	5	o	-	?	31	-
	London (Brixton) ...	29·86	33	E	1	of	29·69	-·12	32	30	0	SE	2	o	*	oas,o	0·0	34	32	0·02
	Oxford	29·83	33	SSE	2	0	29·62	-·16	33	32	+ 1	SE	2	oprs	*	oprs	-	33	32	0·18
	Yarmouth	29·85	30	W	2	c	29·71	-·14	34	33	+ 6	SSE	5	c	5	bc.c	-	34	25	-
France & Netherlands. Germany.	Cuxhaven	30·04	12	SE	3	b	30·01	+·03	11	11	- 3	SE	3	b	*	b	-	14	5	-
	Berlin	30·15	12	ESE	2	b	30·00	-·11	15	15	+ 5	E	2	o	*	b	*	16	9	-
	Wiesbaden	*	*	*	*	*	29·85	-·16	12	11	- 8	E	1	o	*	*	*	25	10	-
	Munich	29·80	9	W	0	s	29·73	-·24	2	2	+ 4	E	3	o	*	s	*	10	-2	0·04
	The Helder ...	29·84	25	S	1	s	29·85	+·01	21	19	- 13	SSE	1	b	0	s	*	34	21	0·20
	Brussels	*	*	*	*	*									*		*			
	C. Gris Nez ...	29·90	22	S	2	bc	29·73	-·13	19	19	- 4	SSE	2	c	2	bc	*	28	19	-
	Paris	29·91	21	NE	2	b	29·80	-·12	14	14	- 5	E	2	b	*	b	*	28	13	-
	Brest	29·78	47	N	4	0	29·52	-·07	42	42	- 9	ESE	2	r	3	0	-	52	39	0·08
	Lorient	29·85	29	NE	3	0	29·54	-·09	35	34	- 2	E	5	m	5	0	*	41	?	-
	Rochefort	29·80	33	E	2	0	29·65	-·11	28	27	- 2	E	3	o	*	o	*	34	27	-
	Belfort	29·89	15	ENE	5	m	29·83	-·19	10	10	0	ENE	6	f	*	m	*	22	6	-
	Lyons	29·88	19	N	1	b	29·83	-·19	12	12	- 3	N	1	b	*	b	*	24	12	-
	Nice	29·69	34	E	2	0	29·61	-·11	31	31	0	E	2	c	3	0	*	39	30	0·04
	Perpignan	29·71	34	NE	2	r	29·69	-·22	46	43	+ 5	NW	2	o	*	r	*	46	?	0·32
	Biarritz	29·80	55	W	8	v	29·58	-·24	49	48	- 1	S	3	r	4	o	*	57	46	0·43
Span. Pen.	Corunna																*			
	Lisbon	30·19	58	WNW	5	r	30·05	-·24	59	55	+ 4	WSW	4	o	*	r	*	61	55	0·28
	Azores (P. Delgada)																*			

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

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

Bright Sunshine yesterday Southport 0·0 hrs

WEATHER CHARTS

FOR Wednesday, 13th December, 1899.

BAROMETER, WIND AND SEA.

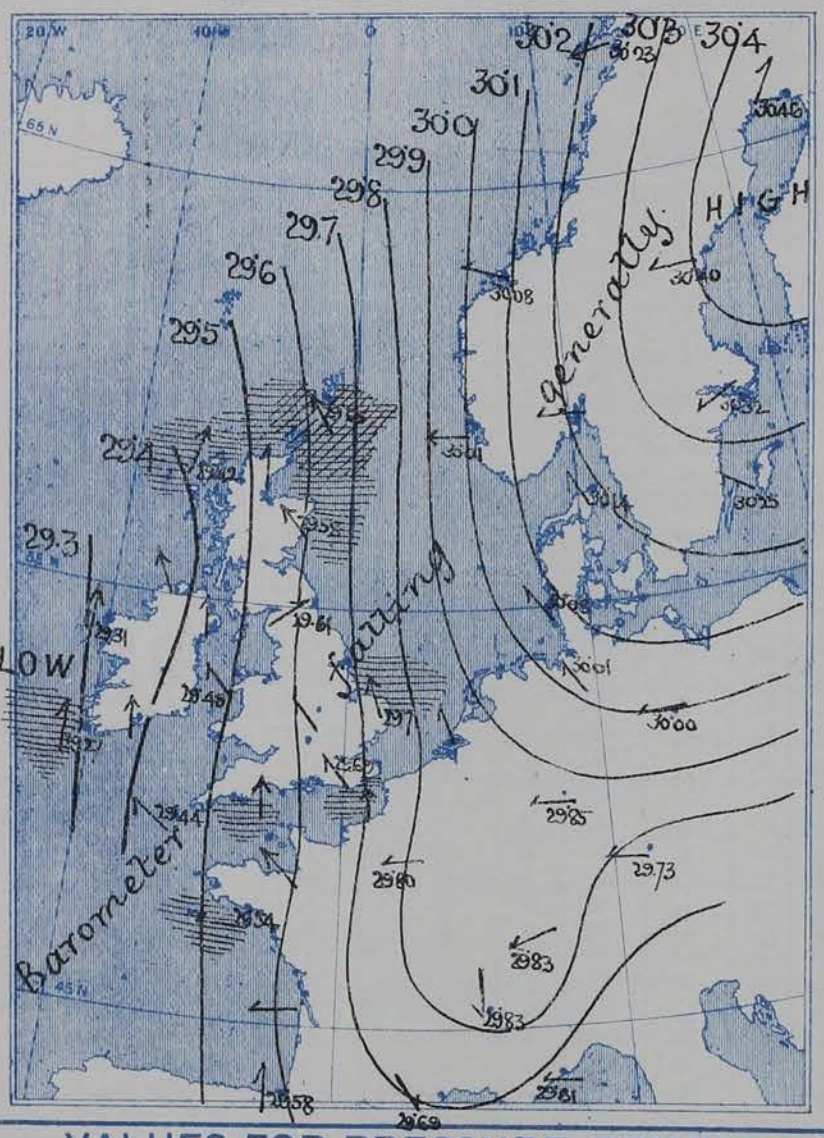
BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show 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*

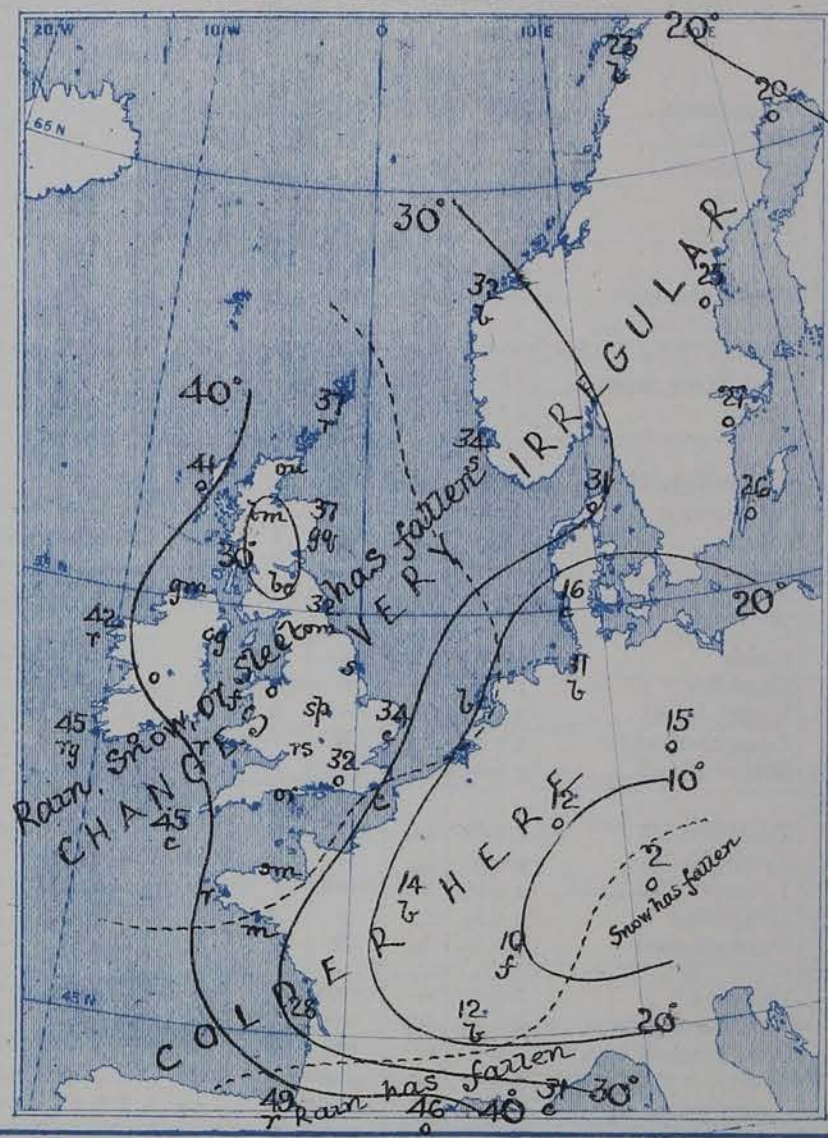


TEMPERATURE AND WEATHER.

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	—	—	—	—	—	—	—
Donaghadee	29·840	40·4	39·5	45·8	36·3	56	1885, 88, 94	20	1879	5·36	—	—
Holyhead	29·876	42·8	41·2	46·5	39·2	56	1872, 88	25	1874	2·85	—	—
Liverpool	29·891	39·0	37·3	43·8	35·7	59	1891	13	1878	3·83	—	—
Parsonstown	29·891	38·3	37·0	45·1	33·5	58	1877	8	1878	2·62	—	—
Valencia	29·900	45·0	42·9	49·9	40·4	57	1884, 88	24	1886	3·09	45·0	20
Roche's Point	29·908	43·5	42·1	48·2	39·4	58	1873	25	1882	5·93	43·9	19
Pembroke	29·914	43·9	42·6	47·0	40·5	55	1876	19	1890	5·16	—	—
Scilly	29·950	47·4	45·5	49·8	43·6	57	1876	30	1890	3·96	46·0	20
Prawle Point	29·970	42·8	41·4	47·3	38·5	55*	1881, 88	25*	1885, 87, 90	4·00	—	—
Jersey	29·993	43·5	41·7	47·7	39·7	61	1876	19	1871	3·77	—	—
Hurst Castle	29·962	40·9	40·1	45·9	36·7	58	1876	19	1890	3·76	62·6	25
Dover	29·954	40·0	38·9	44·7	35·9	56	1880	12	1890	2·77	—	—
LONDON	29·956	38·0	36·8	44·3	34·0	58	1873, 88, 91	11	1878	2·79	—	—
Oxford	29·956	37·1	36·0	43·2	33·6	58	1888	6	1878	2·11	11·8†	5†
Cambridge	29·941	36·4	35·6	43·2	31·6	59	1878, 88	0	1879	2·10	41·8	18
Yarmouth	29·915	38·1	37·1	42·2	33·8	56	1873	15	1879	1·82	41·2	18
										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 over the Gulf of Bothnia; 30·1 in: and upwards in an anticyclone lying over nearly the whole of Scandinavia and the northern part of Denmark. Lowest, 29·3 in: and less. in a depression lying off the west of Ireland. Gradients slight generally, but rather steep over the North Sea. Barometer falling in all parts of Western Europe – quickly in Ireland.

TEMPERATURE — Highest (1) 49° at Biarritz, (2) 47° at Rockée Point, 45° at Valencia (Ireland) and Sicily, and 42° at Blackrod Point. Lowest, 2° at Munich, 11° at Cuxhaven, 12° at Wiesbaden and Lyons, 14° at Paris, and 15° at Berlin; lowest in our Islands, 17° at Nairn. Frost occurred last night in many parts of the United Kingdom, the lowest temperatures reported being 20° at Leith, 21° at Nairn and 25° at Yarmouth.

WIND — S. or SE. over the greater part of our Islands, and fresh or strong in force on nearly all the more exposed parts of our coasts. E. or SE. at the Continental stations; light in force generally, but strong on some parts of the Norwegian coasts.

WEATHER — Cloudy or dull over Western Europe as a whole, with rain in the west of Ireland and the southwest of England, as well as in the Shetlands. Snow is falling at some stations in northern and central England, and also at Rhudesmass. Rain, snow, or sleet fell yesterday in many parts of Western Europe, the largest amount being 0·5 in: at Valencia (Ireland). A solar halo was seen yesterday at Stornoway, and a lunar halo both there and at Malin Hd.

SEA — High at Sumburgh Hd, rough off the north of Scotland generally, and rather rough off the east and southeast of England as well as at Valencia (Ireland).

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The small depression noticed yesterday over Brittany has moved southwards and has entirely dispersed. A larger disturbance is now approaching our western coasts, and seems likely to occasion a considerable increase of wind from the southward in the west and north. Further falls of snow or sleet are probable over the eastern parts of the United Kingdom.

FORECASTS

For the 24 hours ending at NOON on 14TH DECEMBER, 1899.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
↑ 0 SCOTLAND NORTH	SE. and S. winds, increasing to a gale; squally, some snow.	6 SCOTLAND WEST	Same as Nos 0 and 1.
↑ 1 SCOTLAND EAST		7 ENGLAND N.W.	E. and SE. winds, freshening; unsettled, some cold rain or sleet.
↑ 2 ENGLAND N.E.	Same as No 5.	8 ENGLAND S.W.	
3 ENGLAND EAST		9 IRELAND NORTH	S. winds, increasing in force; squally, some rain.
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH	SE. and S. winds, fresh or strong; unsettled, some snow or sleet. Becoming rather milder.	WARNINGS	The South Cone is still flying in districts 0 to 2 and 6 to 10.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Skudesnaes ...	30·10	35	32	SE	6	c	3
Sumburgh Head	29·75	39	35	S	4	c	4
Stornoway... ...	29·75	42	40	W	3	bc	3
Aberdeen	29·85	34	32	WSW	1	cm	3
Shields	29·85	33	32	S	1	c	3
Malin Head ...	29·81	44	40	NNW	2	bc	3
Blacksod Pt.. ...	29·87	46	42	WNW	2	b	2
Holyhead	29·82	41	38	NE	4	c	3

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Valencia	29·91	48	44	NW	1	ov	5
Scilly	29·82	48	46	NNW	6	c	5
Jersey	29·76	36	35	ESE	6	c	4
Portland Bill ...	29·79	40	39	S	3	or	4
Dungeness ...	29·83	34	32	S	2	c	3
London (Westminster)	29·83	34	33	SE	2	gas	*
Yarmouth ...	29·84	31	30	W	2	bc	4
Rochefort ...	29·73	34	33	ESE	4	c	*

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

Continental Information not received.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway; at 7 a.m. in France; and at 8 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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for 8 a.m. on Thursday, 14th 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	30·40	18	L	0	0	30·34	-·12	22	22	+ 2	L	0	0	*	0	*	22	14	-
	Hernösand	30·26	24	E	4	0	30·17	-·23	23	21	- 2	N	2	S	*	0	*	25	9	0·08
	Stockholm	30·10	23	NE	2	0	29·97	-·35	27	25	0	NE	6	0	*	0	*	30	23	-
	Wisby	30·05	26	E	4	0	29·76	-·49	28	26	+ 2	ESE	6	S	*	0	*	28	23	-
	Karlstad	30·13	26	ENE	2	0	29·96	-·31	24	23	- 2	ENE	2	0	*	0,s	*	*	*	-
	Bodö	30·21	25	ENE	2	b	30·17	-·06	23	21	0	ENE	4	b	1	b	*	25	21	-
	Christiansund ...	30·05	30	ESE	2	b	30·00	-·08	26	24	- 6	ESE	3	b	4	b	*	32	26	-
	Skudesnaes ...	29·97	34	ESE	6	c	29·91	-·10	29	28	- 5	E	2	b	2	c	*	34	30	*
	Færder (X'iania Fjord)	30·09	29	ENE	5	0	29·93	-·26	27	25	- 4	NE	6	0	2	0	*	31	25	-
	The Scaw (Skagen)	29·99	31	SSE	4	0	29·81	-·33	29	29	- 2	E	5	0	1	0	*	32	28	-
	Fanö	29·79	29	NE	2	c	29·62	-·46	28	28	+ 12	NE	4	0	*	c	*	28	16	-
British Islands	Sumburgh Head ...	29·51	38	ESE	7	c	29·73	+·08	37	35	0	ESE	5	c	4	c	*	42	34	0·10
	Stornoway	29·34	40	S	4	ops	29·54	+·12	40	37	- 1	SW	4	0	4	0	0·2	42	39	-
	Wick	29·42	40	S	7	0	29·64	+·14	38	36	0	S	4	cu	4	0	*	41	35	0·08
	Nairn	29·43	31	E	2	0	29·64	+·12	33	32	+ 6	E	1	b	1	0	*	38	26	-
	Aberdeen	29·50	37	S	6	ogrsp	29·69	+·11	31	30	- 6	W	2	c g	5	grsp,os	0·0	39	31	0·23
	Leith	29·48	33	L	0	0	29·69	+·13	25	25	- 4	L	0	f	*	0	*	34	12	-
	Shields	29·56	33	SSE	3	ops	29·65	+·04	29	29	- 3	NNW	2	f	3	c sp	*	34	28	0·01
	Spurn Head ...	29·57	34	SE	5	bc	29·62	+·01	35	35	+ 1	N	2	c	3	bc	*	?	32	-
	Loughborough ...	29·54	26	SE	2	0	29·65	+·04	9	9	- 23	NNW	1	bm	*	gms,c,b	*	32	8	0·09
	Malin Head ...	29·28	37	SE	5	om	29·52	+·19	36	34	0	SSE	5	osp	4	om	*	38	34	0·01
	Blacksod Pt. ...	29·28	40	NW	6	rq	29·55	+·04	41	39	- 1	ENE	3	c g	3	c p. rq	*	44	38	0·52
	Donaghadee ...	29·32	43	SSE	5	ru	29·61	+·14	38	35	- 2	S	4	c	3	b.ru	*	43	35	0·02
	Liverpool (Bidston)	29·45	29	E	5	0	29·68	+·15	23	21	- 8	ENE	1	8c	?	o g. s	*	34	21	-
	Holyhead	29·34	36	SE	2	bcm	29·62	+·13	33	29	- 1	ESE	2	om	1	c. bcm	*	38	29	-
	Parsonstown ...	29·22	42	SE	1	0	29·59	+·20	33	33	- 4	ESE	1	0	*	0	0·0	43	33	-
	Valencia	29·25	44	N	8	o q														
	Roche's Point ...	29·14	45	SE	5	r	29·56	+·18	40	39	- 1	N	3	rsp	3	r	*	47	37	1·75
	Pembroke (St. Ann's Hd.)	29·25	40	SE	6	c	29·62	+·14	33	29	- 6	E	4	c g	3	o. c	0·1	43	26	0·08
	Scilly	29·11	47	SSE	6	r	29·45	+·01	43	41	- 2	E	6	0	6	o,r	0·0	49	41	0·69
	Jersey (St. Aubin's) ...	29·36	35	ESE	5	o g	29·51	-·08	30	29	- 5	NE	2	bm	2	o, o g	*	35	28	-
	Portland Bill ...	29·37	37	SE	6	0	29·56	00	28	26	- 12	ENE	4	0	4	0	*	40	26	-
	Dungeness	29·53	32	SSE	5	c	29·53	-·19	32	30	0	E	4	c	3	c	*	?	28	-
	London (Brixton) ...	29·53	28	ESE	2	bc	29·57	-·12	27	25	- 5	NNE	2	0	*	c. b	0·0	34	24	-
	Oxford	29·49	26	ESE	2	0	29·62	·00	22	22	- 11	N	1	o g	*	o. b	*	33	16	0·04
	Yarmouth	29·59	34	ESE	5	bc	29·56	-·15	33	32	- 1	NE	3	bc	4	bc	*	34	28	-
Germany.	Cuxhaven	29·73	21	E	2	0	29·54	-·47	18	18	+ 7	E	2	0	*	0	*	28	11	-
	Berlin	29·66	15	E	2	s	29·56	-·44	9	9	- 6	E	2	0	*	s	*	18	9	0·04
	Wiesbaden	*	*	*	*	*	29·47	-·38	17	16	+ 5	N	2	0	*	*	*	19	12	-
	Munich	29·50	2	L	0	c	29·37	-·36	-3	-3	- 5	E	3	c	*	c	*	10	?	-
France & Netherlands.	The Helder ...	29·66	18	ENE	3	b	29·54	-·31	29	28	+ 8	L	C	S	C	b	*	28	18	-
	Brussels	*	*	*	*	*	29·55		5	5		L	0	b	*	f	*	24	4	-
	C. Gris Nez ...	29·56	19	E	3	bc	29·56	-·17	18	16	- 1	SE	2	m	2	bc	*	23	14	-
	Paris	29·52	21	E	2	b	29·43	-·37	14	14	0	NNE	2	m	*	b	*	24	13	-
	Brest	29·23	39	SE	3	0	29·41	-·11	34	33	- 8	ESE	3	c	3	0	*	46	30	0·04
	Lorient	29·28	32	ENE	5	c	29·46	-·08	26	26	- 9	ENE	4	bc	5	bc	*	41	25	0·04
	Rochefort	29·37	33	E	3	r	29·37	-·28	25	?	- 3	ENE	4	0	*	o,r	*	36	23	0·04
	Belfort	29·61	10	ENE	4	m	?29·43	-·40	10	9	0	E	3	m	*	m	*	18	10	-
	Lyons	29·52	21	N	1	0	29·36	-·47	21	20	+ 9	N	1	0	*	0	*	24	?	-
	Nice	29·50	34	E	3	bc	29·21	-·40	39	38	+ 8	E	5	r	4	bc	*	41	31	0·28
	Perpignan	29·41	40	L	0	r	29·19	-·50	36	36	- 10	NNE	1	r	*	r	*	47	34	0·32
	Biarritz	29·30	55	W	7	r	29·16	-·42	52	48	+ 3	W	6	r	5	r	*	63	48	0·98
Span. Pen.	Corunna																*			
	Lisbon	29·76	59	NNW	6	0	29·92	-·13	52	46	- 7	NW	4	bc	*	0	*	61	50	0·35
	Azores (P. Delgada)	30·33	63	NW	1	c	30·36	-·05	58	55	- 5	NNE	3	bc	2	c	*	66	55	0·32

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 recorded on the Tower of the Wesleyan Training College, Westminster*

Bright Sunshine yesterday Southport 0·0 hrs.

WEATHER CHARTS

FOR Thursday, 14th December, 1899.

BAROMETER, WIND AND SEA.

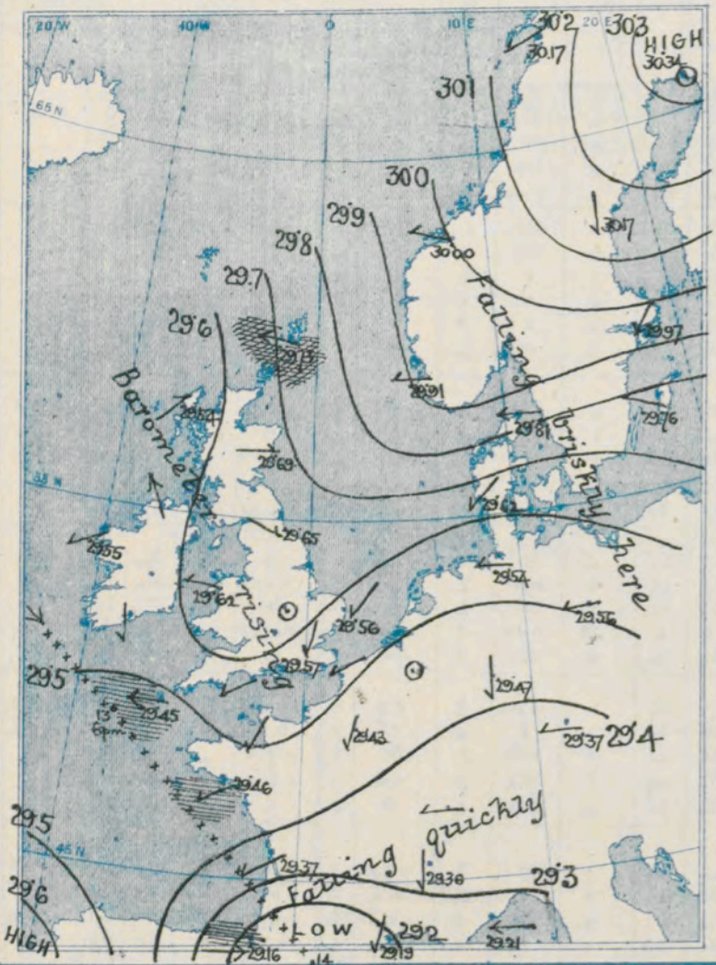
BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show 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*

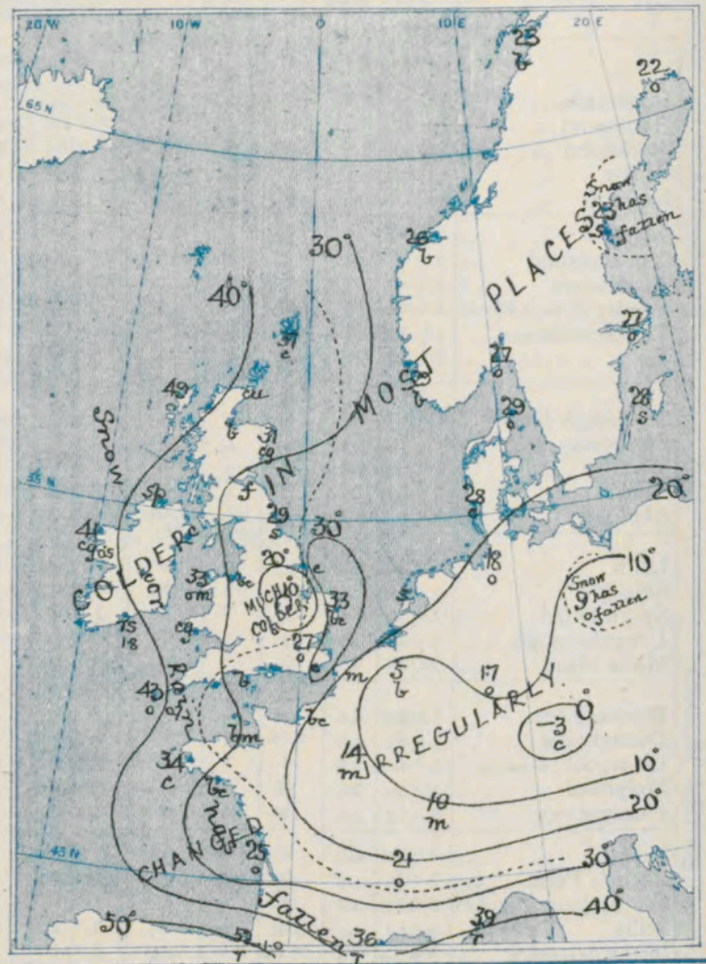


TEMPERATURE AND WEATHER.

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.	TEMPERATURE OF AIR, 1871-95.								RAINFALL	BRIGHT SUNSHINE,	
		Means of				Absolute Extremes.						
	Means, 1871-95.	Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum.	Years.	Minimum.	Years.	Means, 1866—95.	Means, 1881—95. 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	29·885	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: over Lapland.
Lowest, 29·2 in: and here, in a depression lying over the south of France.
Gradient slight. Barometer rising in our Islands and the north and west of France, but falling elsewhere, briskly in Germany, Denmark, and the south of Scandinavia.

TEMPERATURE

Highest, (1) 52° at Prawle Pt; (2) 43° at Scilly, 41° at Blackrod Pt and 40° at Stornoway and Rockel Point.
Lowest, (1) −3° F. at Munich, +5° at Brussels, 9° at Berlin and 10° at Belfast; (2) 9° at Loughborough.
Hard frost occurred last night at some of the more central stations in Great Britain. In the screen the thermometer fell to 8° at Loughborough and to 17° at Leith.

WIND

E↑ or NE↑ over the southern parts of the United Kingdom and the western and central parts of the Continent generally; light or moderate in force in most places, but strong in the south of Scandinavia.
Variable or light from the W.ward on the north-east coasts of Great Britain, moderate from the S.W. or SE.ward on our extreme north and north-west coasts.

WEATHER

Fine in isolated parts of the United Kingdom and also in the west of Norway, but cloudy or dull over Western Europe as a whole. Snow is falling at Shields and also at Hennis-and, sleet showers at Rockel Pt, and rain at Prawle Pt.
Heavy rain fell yesterday in the extreme south-west of our Islands and also in the south-west of France (as much as 1·8 in: at Rockel Point) and snow showers in many parts of Great Britain.

SEA

High at Pembrey Hd, rough at Scilly, and rather rough at Aberdeen, as well as in the Bay of Biscay.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A small but well marked depression which appeared off our south-west coasts yesterday has travelled quickly south-eastwards across France. The brisk fall of the barometer over Denmark and Germany seems to indicate the formation of other disturbances over Central Europe. These may possibly spread westwards and eventually affect the weather over England.

FORECASTS

For the 24 hours ending at NOON on 15TH DECR 1899.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	S.ward and SE.ward winds, moderate; fair generally.
1 SCOTLAND EAST	Light Variable breezes; fair generally, but snow showers in places.
2 ENGLAND N.E.	N.ward and NE.ward winds, light or moderate; some snow showers.
↑3 ENGLAND EAST	Same as No 5.
4 MIDLAND COUNTIES	Same as No 2.
↑5 ENGLAND SOUTH	NE.ward winds, freshening; changeable some snow showers.

DISTRICTS.	FORECASTS.
6 SCOTLAND WEST	Same as No 1.
7 ENGLAND N.W.	E.ward winds, light or moderate; changeable, some snow showers.
8 ENGLAND S.W.	E.ward and NE.ward winds, fresh; fair generally, but snow showers in places.
9 IRELAND NORTH	SE.ward winds, moderate; cloudy, some snow showers.
10 IRELAND SOUTH	E.ward and NE.ward winds, moderate; cloudy, some snow showers.
WARNINGS	At 7·15 pm yesterday to districts 3, 5, 8 and 10 "Hoist North Cone". At 11·10 am today to districts 8 and 10 "Lower Cone"

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Skudesnaes ...	29.97	33	30	SSE	6	c	4
Sumburgh Head	29.58	38	37	SE	6	c	7
Stornoway... ...	29.34	42	39	S	4	o	4
Aberdeen	29.46	37	36	SSE	3	og	6
Shields	29.52	34	33	S SW	2	ocp	2
Malin Head ...	29.25	38	37	SE	6	o	4
Blacksod Pt.. ...	29.18	43	41	S SW	4	cp	4
Holyhead	29.34	38	36	SE	2	c	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Valencia	29.15	42	41	NNE	3	ov	5
Scilly	29.20	48	46	SSE	5	o	5
Jersey	29.47	34	31	SE	5	o	4
Portland Bill ...	29.42	37	34	SSE	6	o	5
Dungeness ...	29.59	31	28	SSE	6	c	6
London (Westminster)	29.55	33	31	SE	3	c	*
Yarmouth ...	29.61	33	32	SSE	5	bc	5
Rochefort ...	29.49	32	32	E	3	o	*

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

Weather in morning cloudy or dull over nearly the whole of our Islands and the Continent, with rain in the west of Ireland and the southwest of England as well as at Biarritz and in many parts of Italy and Greece. Snow falling over Eastern and central England and also at Skudesnaes and several of the Austrian stations. Fine in the east of Scotland and the west of Norway, as well as over Central France. Heavy rain falling later in the south of Ireland and the southwest of France, and snow showers in several parts of Great Britain.

Temperature fallen generally, but risen in the eastern parts of Great Britain and also in Austria and the Gulf of Bothnia. Morning readings highest 61° to 64° over Algeria, 59° at Lisbon, and 57° at Athens and Malta. Lowest (1) −2° F. at Kiew and −1° at Moscow; (2) 2° at Munich and 4° at Breslau; below 20° in most parts of Central and Eastern Europe, below the freezing point in Scotland. Daily maxima below 35° in the eastern, central, and southeastern parts of Great Britain; below 25° over Central France and below 20° in Germany. Hard frost occurring over Central England at night; sheltered thermometer at Loughborough falling to 8°.

Wind S³ or SE³ over our Islands, and fresh or strong in force on several of the more exposed parts of our coasts. E³ over France and the northern and central parts of the Continent, and strong in force in the south of Norway. W³ or SW³ over the Spanish Peninsula, NW³ in the extreme south of France; variable in Italy and Greece. Subsequently shifting to the N^wd in the west of Ireland and increasing to a gale.

Barometer highest 30·5 in: and upwards over northern and Central Russia; 30·1 in: and upwards in an anticyclone covering the whole of northern and central Europe. 30·0 in: and upwards over the southern parts of the Spanish Peninsula. Lowest 29·3 in: and less, in a depression off the west of Ireland, 29·6 in: and less in another disturbance over Corsica and Central Italy. Depression in west subsequently moving quickly across our southwest coasts and the Bay of Biscay.

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 Friday, 15th 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.	Rain&M.
		Ins.	°				Ins.	Ins.	°	°	°									Ins.
Scandinavia	Haparanda	30·37	15	S	4	0	30·25	−·09	14	14	− 8	SE	2	0	*	0	*	23	14	0·04
	Hernösand	30·10	21	E	4	0	30·04	−·13	21	20	− 2	NE	2	0	*	0	*	23	18	0·16
	Stockholm	29·84	27	ENE	2	0	29·87	−·10	28	28	+ 1	NNE	2	5	*	0	*	28	23	0·16
	Wisby	29·78	29	SSE	4	0	29·83	+·07	27	26	− 1	ESE	4	0	*	0	*	28	21	0·32
	Karlstad	29·82	23	NE	6	0	29·86	−·10	25	25	+ 1	NE	2	S	*	0,S	*	*	*	0·08
	Bodö	30·16	23	E	4	b	30·02	−·15	22	21	− 1	ENE	4	b	1	b	*	23	18	−
	Christiansund ...	29·90	23	E	4	b	29·82	−·18	27	24	+ 1	ESE	2	b	3	b	*	?	25	−
	Skudesnaes ...	29·83	27	NE	2	b	29·84	−·07	30	27	+ 1	ENE	2	b	2	b	*	31	24	*
	Færder (X'iania Fjord)	29·77	28	NNE	6	S	29·83	−·10	26	26	− 1	NE	6	S	3	S	*	28	25	−
	The Scaw (Skagen)	29·67	28	ENE	5	S	29·78	−·03	28	27	− 1	E	0	c	0	S	*	29	27	0·04
	Fanö	29·61	26	N	3	0	29·69	+·07	25	25	− 3	E	2	c	*	0	*	25	23	−
British Islands	Sumburgh Head ...	29·72	37	SE	2	c	29·67	−·06	35	34	− 2	S	2	r	5	c.sp.c	*	39	32	0·16
	Stornoway	29·61	40	SW	4	0	29·61	+·07	36	35	− 4	WSW	3	0	3	sp.0	0·0	40	35	0·03
	Wick	29·66	38	S	2	c	29·64	·00	36	35	− 2	N	1	c	4	c	*	39	27	−
	Nairn	29·69	30	ESE	1	bc	29·69	+·05	33	32	0	N	1	b	1	bc	*	36	27	−
	Aberdeen	29·75	27	W	1	cg	29·75	+·06	32	30	+ 1	SW	1	c g m	3	c.cg	0·9	32	16	0·04
	Leith	29·74	28	E	0	m	29·79	+·10	29	29	+ 4	E	0	f	*	m	*	30	18	−
	Shields	29·74	33	W	2	sp	29·84	+·19	29	29	0	W	2	b m	2	c s p	*	34	26	0·02
	Spurn Head ...	29·67	34	NW	4	c	29·87	+·25	32	32	− 3	WNW	3	b c s p	4	c s p	*	?	31	0·02
	Loughborough ...	29·72	25	WNW	1	0	29·91	+·26	18	18	+ 9	E	0	f	*	b m. c. m	*	29	9	−
	Malin Head ...	29·65	37	SSW	2	0	29·69	+·15	35	34	− 1	S	5	b c	3	o s s p. o	*	37	34	0·02
	Blacksod Pt. ...	29·67	39	S	2	b c	29·70	+·15	43	41	+ 2	S	4	c	3	b c	*	43	35	−
	Donaghadee ...	29·71	37	S	2	0	29·81	+·20	32	31	− 6	NW	2	b	2	s p. o	*	39	29	−
	Liverpool (Bidston)	29·74	33	NNE	1	0	29·90	+·22	29	28	+ 6	S	1	b	?	o f	*	33	21	−
	Holyhead ...	29·67	34	SE	1	b	29·87	+·25	31	29	− 2	SE	1	b	1	b	*	37	28	−
	Parsonstown ...	29·70	34	SE	1	r	29·81	+·22	33	32	0	SE	1	c	*	o r S	0·0	38	29	0·17
	Valencia	29·70	37	W	0	c														
	Roche's Point ...	29·66	39	NNW	3	b c	29·85	+·29	32	32	− 8	NNW	2	f	4	r b c f	*	40	30	0·30
	Pembroke (St. Ann's Hd.)	29·72	32	E	3	b c	29·88	+·26	33	33	0	E	3	b c m	2	b c	1·8	39	31	−
	Scilly	29·65	44	ESE	1	o p	29·81	+·36	44	41	+ 1	WNW	2	c	5	s h p. o p	2·1	46	40	0·21
	Jersey (St. Aubin's) ...	29·66	31	WNW	1	c m	29·89	+·38	39	36	+ 9	NW	1	o m	1	b. c m. o	*	39	29	−
	Portland Bill ...	29·71	28	NE	3	c	29·40	+·34	31	30	+ 3	ENE	3	c	3	b c. c m	*	33	25	−
	Dungeness	29·64	32	NNW	3	0	29·88	+·35	28	28	− 4	N	1	f	1	0	*	?	23	−
	London (Brixton) ...	29·70	29	N	2	b m	29·94	+·37	28	26	+ 1	NW	1	o g f m	*	o g f. c	0·1	33	26	−
	Oxford	29·77	21	WNW	1	0	29·94	+·32	22	22	0	SW	1	f	*	b c. o	*	30	19	−
	Yarmouth	29·61	34	NNW	2	b c	29·86	+·30	33	32	0	NW	3	c	4	S. b c	*	34	27	0·14
Germany	Cuxhaven	29·56	19	SW	1	0	29·72	+·18	21	21	+ 9	SW	2	0	*	0, S	*	23	18	−
	Berlin	29·65	11	W	0	b	29·81	+·25	5	5	− 4	NW	2	0	*	b	*	16	3	0·04
	Wiesbaden ...	*	*	*	*	*	29·82	+·35	14	12	− 3	NNW	1	b c	*	*	*	19	10	−
	Munich	29·43	10	SW	4	0	29·62	+·25	13	13	+ 16	NW	4	S	*	0	*	13	−4	−
France & Netherlands.	The Helder ...	29·62	21	SSE	1	b c	29·79	+·25	37	35	+ 8	NNE	1	b	1	b c	*	37	21	0·04
	Brussels	*	*	*	*	*	29·85	+·30	14	14	+ 9	SSE	1	b	*	b	*	19	5	−
	C. Gris Nez ...	29·65	30	E	1	S	29·81	+·25	?	?	?	N	3	o	3	S	*	30	?	0·16
	Paris	29·64	21	N	3	b	29·86	+·43	16	16	+ 2	NNE	2	b	*	b	*	25	13	−
	Brest	29·67	36	E	1	c	29·85	+·44	41	39	+ 7	SE	3	o	3	c	*	41	32	0·51
	Lorient	29·72	30	NE	4	b c	29·95	+·49	30	30	+ 4	ESE	2	c	5	b c	*	41	25	−
	Rochefort	29·71	26	ENE	4	b	29·84	+·47	27	25	+ 2	E	3	b c	*	b	*	30	21	−
	Belfort	29·52	12	E	4	m	29·73	+·30	10	9	0	E	0	m	*	m	*	19	9	−
	Lyons	29·46	24	NW	3	b	29·73	+·37	16	15	− 5	NW	3	b c	*	b	*	28	15	−
	Nice	29·02	44	E	7	r	29·14	−·07	39	38	0	E	1	o	4	r	*	45	36	0·39
	Perpignan	29·28	43	NW	6	c	29·57	+·38	36	28	0	NW	5	b c	*	c	*	48	36	0·12
	Biarritz	29·52	50	N	5	c	29·80	+·64	28	27	− 24	E	3	b	5	c	*	52	28	0·04
Span. Pen.	Corunna																*			
	Lisbon	30·03	51	NW	4	b	30·03	−·11	55	52	+ 9	WNW	5	b c	*	b	*	57	52	0·08
	Azores (P. Delgada)	30·38	58	NE	1	0	30·33	−·03	55	51	− 3	NNE	3	0	2	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 recorded on the Tower of the Wesleyan Training College, Westminster*

Bright Sunshine yesterday Southport 1·3 hrs.

WEATHER CHARTS

FOR Friday, 15th December, 1899.

BAROMETER, WIND AND SEA.

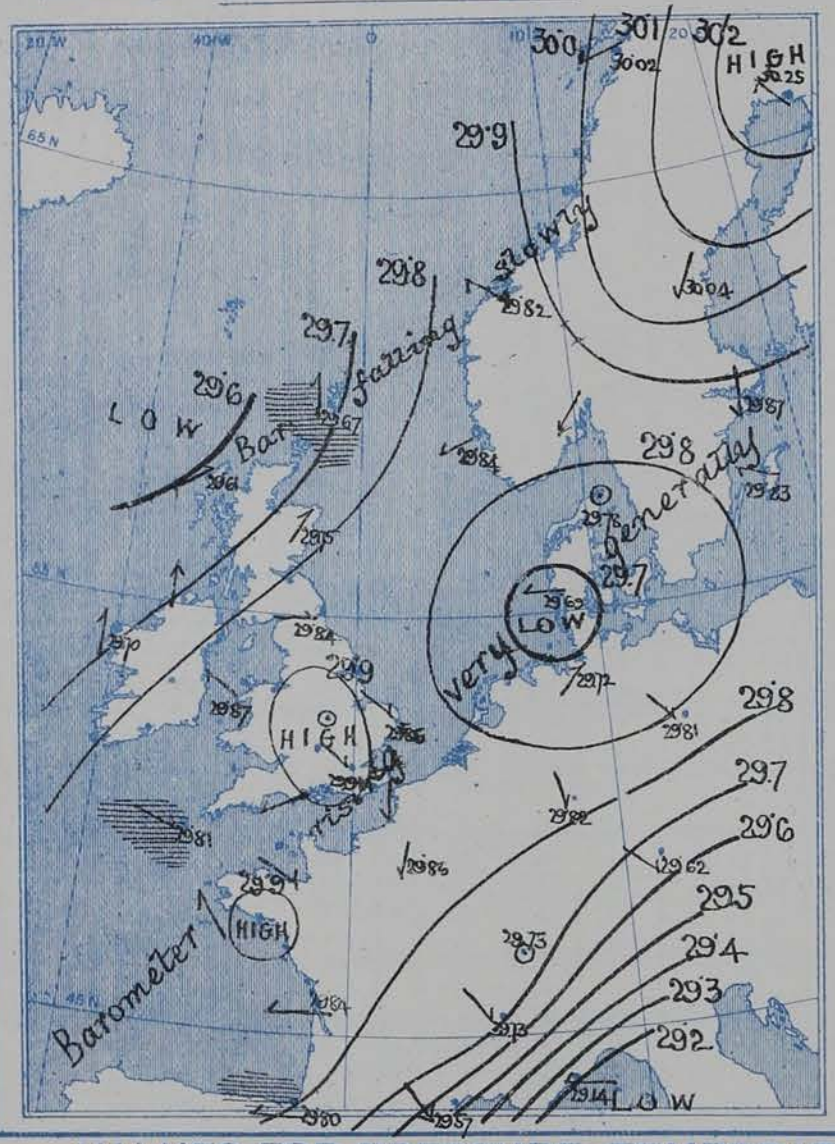
BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show 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* ▩

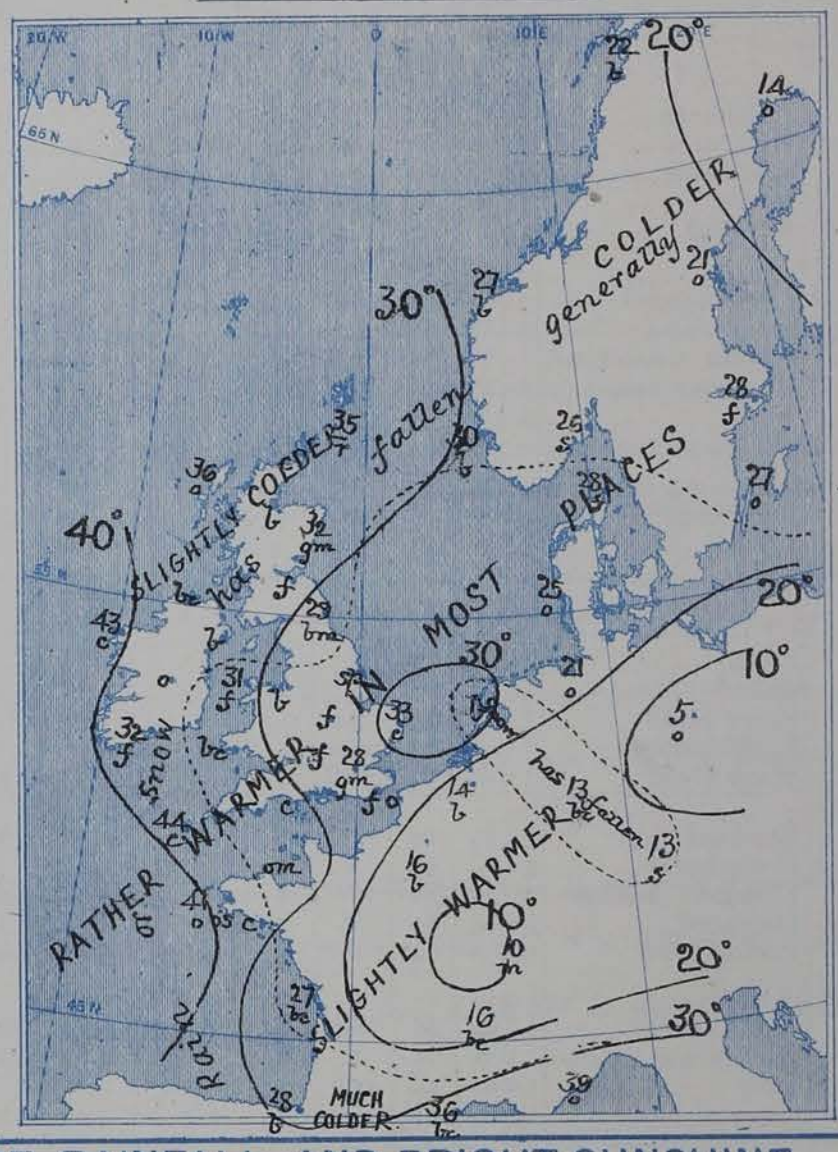


TEMPERATURE AND WEATHER.

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	29·885	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 Westminste

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·2 ins: and upwards in Lapland; 29·9 ins: and upwards in two small areas lying respectively over Central England and Brittany
Lowest, 29·2 ins: and less, in a depression moving Eastwards over the Gulf of Genoa; 29·6 ins: and less, in a shallow system off the north-west of Scotland, 29·7 ins: and less in another shallow area over Denmark.
Gradients slight generally, but steep over the south of France.
Barometer rising over Western Europe generally, but falling in the north of Scotland and also over the northern part of Scandinavia.

TEMPERATURE

Highest, (1) 44° at Scilly, 41° at Biarritz and 39° at Jersey; (2) 43° at Blackhead Point; (3) 39° at Nice.
Lowest, (1) 5° at Berlin, 10° at Belfort, 13° at Munich and 14° at Wiesbaden; (2) 14° at Haparanda; lowest in our Islands 18° at Loughborough.
Sharp frost was again experienced last night over the greater part of the United Kingdom, the lowest temperatures reported being 15° at Aberdeen and Loughborough, 18° at Leith, and 19° at Oxford.

WIND

Light and variable in the south of our Islands and also over Central France; E. in the west and south of France; NW. in Germany.
Light to moderate from the S. on our extreme north and north-west coasts, and from the W. or NW. on the east coasts of England.

WEATHER

Fair or fine over Western Europe as a whole, but foggy at many of the English and Irish stations; rain is falling at Lerwick Hd and snow showers at Spurn Hd.
Mild in Sweden, Denmark and Germany, with snow at Gaarden and Karlstad and also at Munich.
Snow showers fell yesterday in several parts of Great Britain, and rain in the south of Ireland, as well as at some stations in the west and south of France.

SEA

Moderate to smooth generally, but rather rough at Lerwick Hd and Scilly as well as in the Bay of Biscay.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The slight fall of the barometer which has commenced in the north seems to indicate the approach of depressions towards the Norwegian coast. SW. and W. winds and milder weather will probably set in shortly in our extreme northern districts, and may possibly spread later over a considerable portion of the United Kingdom.

FORECASTS

For the 24 hours ending at NOON on 16TH DECEMBER, 1899.

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	S. and SW. winds, moderate or fresh; cloudy, some cold rain or sleet.
1	SCOTLAND EAST	SW. winds, light; fair generally, but some mist or fog.
2	ENGLAND N.E.	
3	ENGLAND EAST	Light Variable airs; misty or foggy in most places.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	
6	SCOTLAND WEST	Light breezes; chiefly S.; fair generally but some mist or fog
7	ENGLAND N.W.	
8	ENGLAND S.W.	Same as Nos 3 to 5.
9	IRELAND NORTH	S. winds, moderate or fresh; fair in eastern, some rain in western parts of districts.
10	IRELAND SOUTH	
	WARNINGS	At 7·30 pm yesterday to districts 3 and 5 "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.	WIND. Force.	WEA.	SEA.
Skudesnaes ...	29.84	31	28	ENE	2	b	2
Stornoburgh Head	29.72	38	35	SE	3	c	6
Stornoway	29.60	40	36	SW	4	o	4
Aberdeen	29.72	32	31	W	1	c s p	5
Shields	29.64	33	33	W	2	o s p	3
Malin Head ...	29.61	37	37	SSW	4	o	4
Blacksod Pt. ...	29.61	40	39	ESE	2	bc	2
Holyhead	29.64	37	32	SE	2	b	1
Valencia	29.66	43	39	WSW	1	cv	5
Scilly	29.59	43	41	ENE	4	shp	6
Jersey	29.59	35	32	E	2	b	2
Portland Bill ...	29.65	31	28	NE	3	bcm	3
Dungeness ...	29.60	34	32	N	3	o	2
London (Westminster)	29.63	33	31	NNE	3	o	*
Yarmouth ...	29.57	34	33	NW	3	s	4
Rochefort ...	29.61	28	26	ENE	3	bc	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather in morning fine in isolated parts of the United Kingdom and also in the west of Norway, but dull and unsettled over Europe as a whole. Sleet showers falling at Rockcliffe and snow at Shields, as well as in many parts of Finland, Sweden, Germany and Austria; raining over northern Italy and the extreme south of France. Snow showers falling later in several parts of Great Britain and rain in the south of Ireland, but ceasing in France.

Temperature fallen in most countries, but risen in France and Italy. Morning readings highest 63° at Cagliari, 62° at Oran and 61° at Palermo; above 50° at many of the Mediterranean and Spanish coast stations. Lowest (1) −3° F. at Munich, +2° at Breslau, and 5° at Vienna and Brussels; (2) 9° at Loughborough; considerably below the freezing point over the whole of northern and central Europe and also in the central parts of Great Britain. Remaining below 20° all day in Germany and the East of France, and below 32° in many parts of Great Britain; thermometer steady 40° on our extreme west and southwest coasts.

Wind E[3] or NE[3] over the southern parts of England and the western and central parts of the Continent generally, and strong in force in Denmark and the south of Scandinavia; N[3] in the south of Ireland. Moderate from the S[wd] or SE[wd] on our extreme north and northwest coasts. W[3] or NW[3] over the Spanish Peninsula and the southwest of France, with a gale at Bilbao. S[3] over the south of Italy, E[3] over the northern parts of Italy and the Adriatic. Calm in Austria, SE[3] in Russia. No important change occurring later.

Barometer highest 30·3 in. and upwards in an anticyclone lying over northern and central Russia; 29·9 in. and upwards in the south of Portugal. Lowest 29·2 in. and less, in an elongated depression lying over the south of France; secondary disturbances reported over various parts of Central Europe. Depression subsequently moving eastwards, secondary systems spreading northwards over Denmark and the Baltic.

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, 16th 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.) Baron. At 32° and M.S.L.	Temp. Dry Bulb	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb	Temperature. Wet Bulb	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°									Ins.
Scandinavia	Haparanda	30.08	23	SE	4	S	29.97	-.28	27	26	+13	SW	0	0	4	S	0	28	12	0.47
	Hernösand	29.91	21	NE	2	S	30.08	+.04	14	13	-7	SW	0	b	4	S	0	25	14	0.24
	Stockholm	29.90	28	SW	0	0	30.17	+.30	16	15	-12	SW	0	b	4	0	0	30	?	0.12
	Wisby	29.89	34	NW	4	0	30.11	+.28	32	32	+5	NE	4	bc	4	0	0	34	25	0.08
	Karlstad	30.00	18	SW	0	b	30.17	+.31	20	20	-5	NNW	2	0	4	S,b	0	4	4	0.04
	Bodö	29.95	20	E	4	b	29.93	-.09	21	18	-1	E	4	b	1	b	0	22	18	-
	Christiansund ...	29.85	31	ESE	2	c	29.87	+.05	35	29	+8	ESE	4	c	4	c	0	35	27	-
	Skudesnaes ...	29.92	35	SE	6	c	29.95	-.11	39	37	+9	SSE	6	c	4	c	0	39	30	0
	Færder (X'iania Fjord)	29.96	26	NNW	4	b	30.13	+.30	25	23	[illegible]	W	1	b	1	b	0	28	23	0.08
	The Scaw (Skagen)	29.99	29	NNW	1	f	30.14	+.36	22	22	-6	SW	0	0	0	f	0	30	19	0.20
	Fanö	30.06	19	E	1	m	30.15	+.46	19	19	-6	E	2	0	0	m	0	27	18	-
British Islands	Sumburgh Head ...	29.59	39	SSW	2	c	29.41	-.26	43	43	+8	S	6	r	6	0.c	0	44	35	0.15
	Stornoway	29.43	40	SSW	8	r	29.32	-.39	48	47	+12	SW	8	r	8	0.r	0.0	48	35	0.25
	Wick	29.54	39	S	4	0	29.38	-.20	43	42	+7	S	7	0c	6	0	0	45	32	0.15
	Nairn	29.59	40	SW	2	0	29.38	-.31	47	45	+4	SW	3	0	2	c	0	47	31	-
	Aberdeen	29.70	33	SSW	3	cm	29.60	-.15	42	39	+10	S	6	ogg	6	bcm.s,p	0.2	42	31	0.01
	Leith	29.76	34	W	0	0	29.59	-.20	41	38	+12	S	3	0	0	0	0	42	23	-
	Shields	29.88	28	SW	2	bc	29.76	-.08	29	29	0	SSW	3	cm	2	f.bc	0	32	25	-
	Spurn Head ...	29.94	33	NSW	3	b	29.87	-.00	33	33	+1	SSE	5	c	3	b	0	?	27	-
	Loughborough ...	29.97	22	SSE	1	f	29.87	-.04	31	30	+13	SE	2	cm	0	f.cm.bc	0	32	16	-
	Malin Head ...	29.54	38	S	6	r	29.25	-.44	48	47	+13	SSW	7	cg	5	0.r	0	48	32	0.04
	Blacksod Pt. ...	29.57	50	SW	5	r	29.23	-.47	52	51	+9	S	8	r	6	c.g.p.r	0	52	43	0.32
	Donaghadee ...	29.74	41	NSW	3	c	29.50	-.31	49	49	+17	NSW	2	0	5	c.gr	0	49	30	0.01
	Liverpool (Bidston)	29.90	27	SE	3	b	29.73	-.17	31	30	+2	SE	5	bc	?	bm	0	33	26	-
	Holyhead	29.83	40	S	3	om	29.62	-.25	46	44	+15	S	7	0g	6	bc.om	0	46	29	-
	Parsonstown ...	29.72	40	SE	1	0	29.42	-.39	49	48	+16	SE	1	0	0	0	0.5	49	32	-
	Valencia	29.71	49	SSE	3	om	29.32	-.48	52	51	+8	SSE	5	rm	5	om	0.0	52	42	0.19
	Roche's Point ...	29.77	48	SSW	6	ogm	29.48	-.37	51	51	+19	SSW	8	r	5	f.r.od	0	51	32	0.08
	Pembroke (St. Ann's Hd.)	29.85	46	S	5	c	29.65	-.23	48	48	+15	SW	6	0qp	5	c	1	48	33	0.03
	Scilly	29.84	46	SSW	3	bc	29.62	-.19	51	50	+7	SSE	6	0p	5	c.bc	0.5	51	42	0.05
	Jersey (St. Aubin's) ...	29.96	42	SW	3	cm	29.93	+.04	41	38	+2	SE	5	cm	4	0g.m	0	45	38	-
	Portland Bill ...	29.96	39	ESE	2	b	29.85	-.05	45	42	+14	S	5	c	5	bm.b	0	45	29	-
	Dungeness	29.99	26	N	1	f	29.98	+.10	41	38	+13	S	3	0	3	f	0	?	21	-
	London (Brixton) ...	30.01	28	W	0	[illegible]	29.94	.00	31	29	+3	E	1	f	0	0gf.f2	0.0	31	23	-
	Oxford	30.04	18	E	1	[illegible]	29.88	-.06	32	31	+10	SE	2	f.c	0	f.c	0	32	15	-
	Yarmouth	29.95	24	NW	2	[illegible]	29.96	+.10	26	25	-7	SSW	1	f	4	f	0	34	18	-
Germany	Cuxhaven	29.93	22	E	1	m	30.10	+.28	22	22	+1	W	0	[illegible]	0	[illegible]	0	23	19	-
	Berlin	29.98	10	N	2	0	30.01	+.20	25	25	+20	NW	4	[illegible]	0	0	0	25	5	0.08
	Wiesbaden	*	*	*	*	*	30.00	+.18	25	23	+11	N	3	0	0	*	0	25	?14	-
	Munich	29.80	13	SW	4	S	29.79	+.17	12	12	-1	W	5	0	0	S	0	16	10	0.47
France & Netherlands	The Helder ...	29.95	38	NE	1	b	30.05	+.26	22	22	-15	SSE	1	[illegible]		b	0	39	21	-
	Brussels	*	*	*	*	*	30.08	+.23	22	22	+8	ENE	1	[illegible]	0	0	0	28	13	-
	C. Gris Nez ...	29.96	36	N	1	m	30.01	+.20	31	30	?	S	3	[illegible]	3	m	0	37	28	0.04
	Paris	30.01	23	W	0	m	30.01	+.15	19	?	+3	NNE	1	f	0	m	0	32	13	-
	Brest	29.94	47	S	3	bc	29.78	-.07	50	48	+9	SSW	3	c	3	bc	0	50	41	-
	Lorient	30.00	42	S	3	bc	29.88	-.07	47	47	+17	S	5	0	5	bc	0	43	30	-
	Rochefort	29.92	32	N	3	0	30.08	+.24	29	28	+2	ESE	2	b	0	0	0	36	25	-
	Belfort	29.92	16	E	2	m	29.96	+.23	17	16	+7	ENE	1	m	0	m	0	18	10	0.04
	Lyons	29.88	22	N	3	0	29.98	+.25	22	21	+6	N	3	0	0	0	0	22	16	-
	Nice	29.27	44	E	2	b	29.55	+.41	42	41	+3	E	3	r	4	b	0	48	39	0.59
	Perpignan	29.69	36	NW	8	0	29.79	+.22	35	30	-1	NW	7	0	0	0	0	39	32	-
	Biarritz	29.93	35	E	2	0	29.99	+.19	32	30	+4	E	3	b	1	0	0	36	28	-
Span. Pen.	Corunna																			
	Lisbon	30.08	52	NNE	3	0	30.02	-.01	52	51	-3	NW	2	0	0	0	0	59	52	-
	Azores (P. Delgada)	30.24	61	NNW	3	0	30.22	-.11	61	60	+6	NNW	4	c	2	0	0	63	55	0.04

For Explanation of Columns, see bottom of last page.

† *Received too late for Insertion in Charts on next page.*

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

Bright Sunshine yesterday Southport 2.3 hrs.

WEATHER CHARTS

FOR Saturday, 16th December, 1899.

BAROMETER, WIND AND SEA.

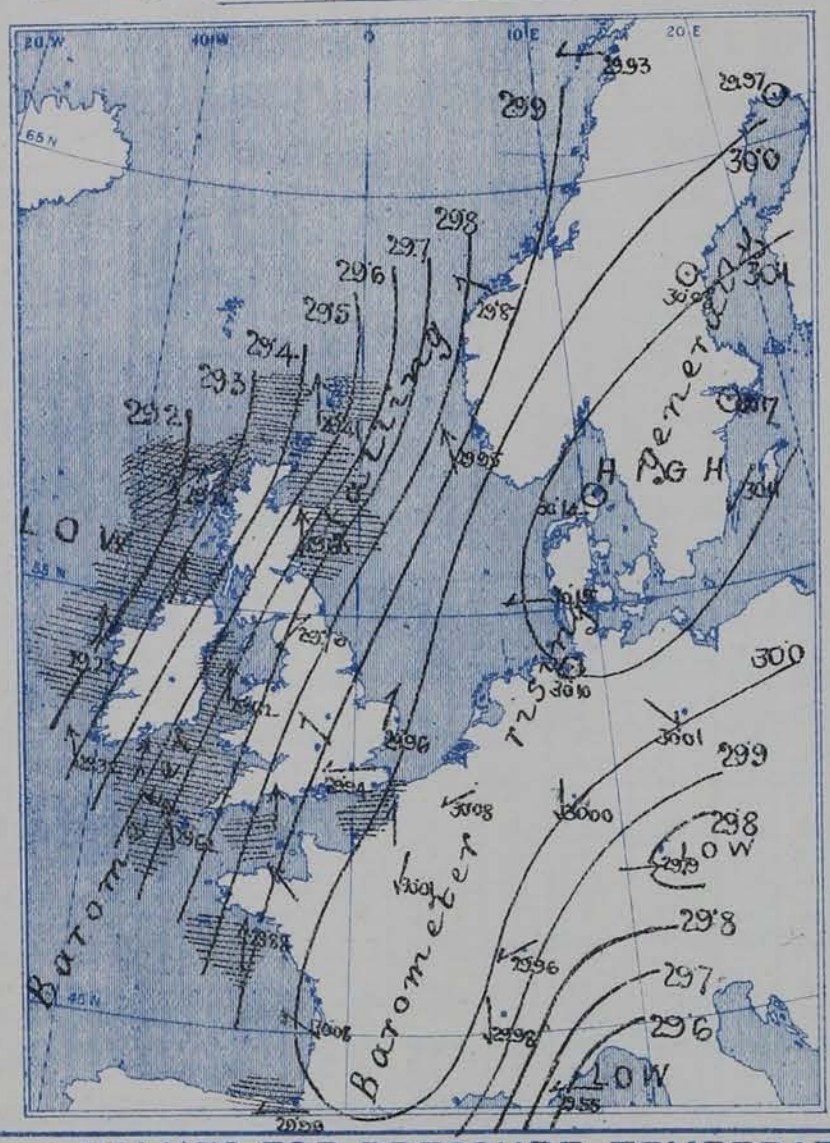
BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show 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*

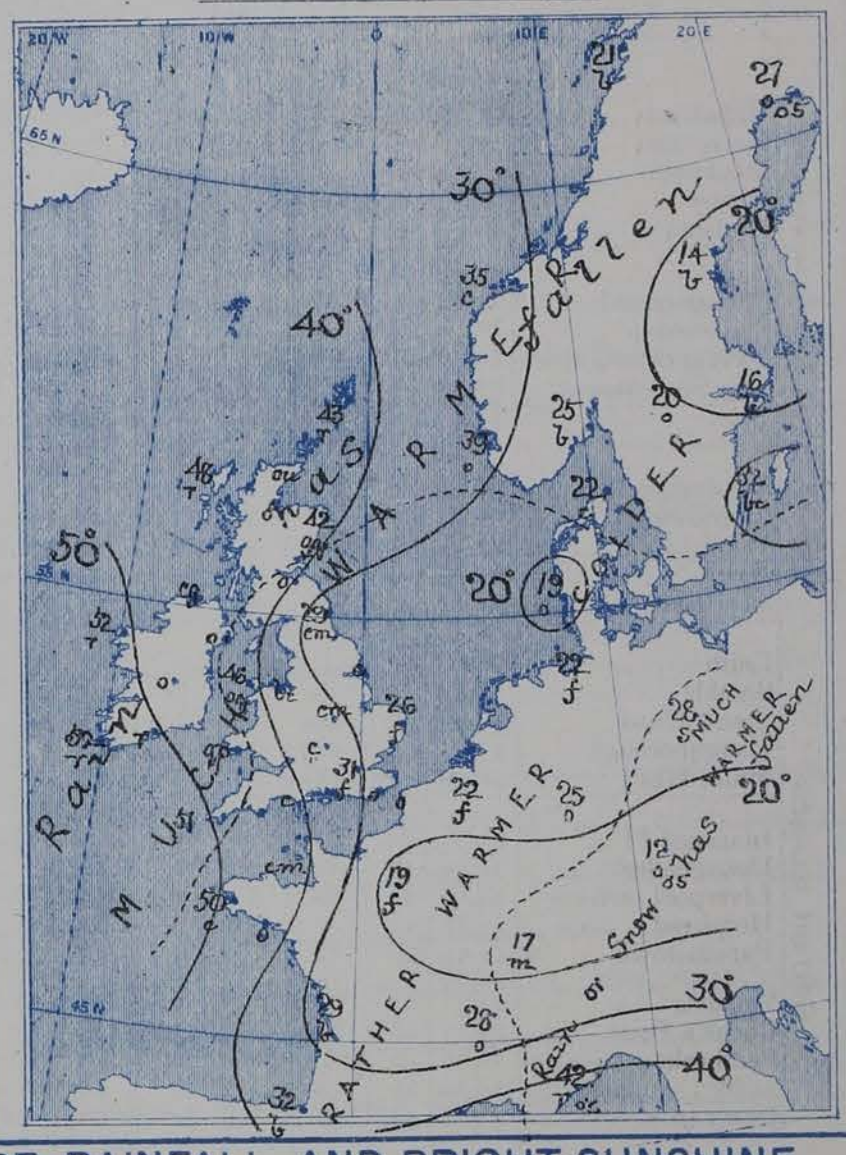


TEMPERATURE AND WEATHER.

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


20 W
10 W
0
10 E
20 E
65 N
55 N
45 N
30°
40°
50°
20°
WARMER Eastern
COLDER
WARMER
MUCH WARMER Eastern
RATHER WARMER
Rain
Snow or Sleet
Rain or Snow
Rain
Rain
Rain

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·1 in: and upwards, over Denmark and the south of Sweden; 30·0 in: and upwards in a band extending southwards over the Netherlands and France.
Lowest, 29·2 in: and less, in a rather deep depression lying off our extreme northwest coasts; 29·6 in: and less in another disturbance over the Gulf of Genoa.
Gradients steep in the west and north, but moderate or slight elsewhere.
Barometer falling over the whole of our Islands and the neighbouring parts of the Continent, but rising elsewhere.

TEMPERATURE

Highest, 52° at Blackrod B; 51° at Rocket Point and Scilly, and 49° at Donaghadee and Parsonstown.
Lowest, (1) 12° at Munich, 17° at Belfort and 19° at Paris; (2) 14° at Hernösand and 16° at Stockholm; lowest in our Islands 25° at Yarmouth.
A considerable rise has taken place over all but the most eastern parts of the United Kingdom, the change since yesterday amounting to 19° at Rocket Point and 17° at Donaghadee.

WIND

S. in our Islands, and strong in force in the west and north, with a gale in Ireland and the west of Scotland; SE. or E. in the west of Norway.
Light from between N. and E. over the greater part of France, moderate from W. or NW. in Germany; calm in Sweden and Denmark.

WEATHER

Cloudy or dull over Western Europe as a whole, with fog over the southeast of England, and also over the Netherlands, North Germany, and the northeast of France. Rain is falling at several of our western and extreme northern stations, and snow at Berlin.
Fine in many parts of Scandinavia and also in the southwest of France.
Snow fell yesterday in Sweden, Germany, and the East of France, and rain in the south of France.

SEA

Very high at Stornoway, rough on our north and northwest coasts generally, and rather rough in the southwest.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone recently prevailing over northern Europe has receded somewhat to the eastward and a large depression has appeared off our own western coasts. The latter system is likely to move northwards, but other disturbances will probably appear in the west, so that increasing S. winds and milder weather are likely to spread shortly over the whole Kingdom.

FORECASTS

For the 24 hours ending at NOON on 17th DECr. 1899.

DISTRICTS.		FORECASTS.
▼ 0	SCOTLAND NORTH	S. and SW. gales and strong winds; squally, some rain.
▼ 1	SCOTLAND EAST	S. winds, strong; fair at first, some rain later. Milder.
2	ENGLAND N.E.	
3	ENGLAND EAST	S. winds, freshening; fair at first, some rain later. Milder.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	
▼ 6	SCOTLAND WEST	Same as No 0.
7	ENGLAND N.W.	S. winds, strong; squally, some rain.
8	ENGLAND S.W.	
▼ 9	IRELAND NORTH	Same as No 0
▼ 10	IRELAND SOUTH	
	WARNINGS	At 7.10 pm yesterday to districts 0, 6, 10 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.	WIND. Force.	WEA.	SEA.
Skudesnaes ...	29.74	32	28	S	2	b	2
Sumburgh Head	29.61	39	38	SW	1	o	5
Stornoway... ...	29.51	43	40	SSW	6	o	6
Aberdeen	29.73	32	30	S	2	bcm	3
Shields	29.67	32	31	SW	2	cf	2
Malin Head ...	29.62	37	36	S	5	o	4
Blacksod Pt.. ...	29.63	47	46	SW	5	cqjp	4
Holyhead	29.67	39	35	S	2	bc	1
Valencia	29.76	46	45	SSE	4	rm	5
Scilly	29.67	49	44	S	2	c	5
Jersey	29.95	44	39	SW	2	o	2
Portland Bill ...	29.95	40	35	ESE	2	bm	2
Dungeness ...	29.95	32	32	N	1	f	1
London (Westminster)	29.97	28	26	E	0	fg	*
Yarmouth ...	29.91	32	31	NNW	3	f	*
Rochefort ...	29.92	31	30	N	2	o	*

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

Weather fair or fine over Western Europe as a whole, but foggy at many of the English and Irish stations; dull in the north of Scotland, with rain at Sumburgh Head, dull and unsettled in the eastern, central and southern parts of Europe generally, with rain at some of the Austrian and Italian stations, and snow in Finland, the south of Scandinavia and several parts of Germany and Austria. Rain falling later in the west and extreme north of our Islands, no important change occurring elsewhere.

Temperature risen somewhat in many parts of Great Britain and France and rapidly over Russia, Austria and Eastern Germany. Morning readings highest 60° at Athens and Malta, 58° at Lérina and 57° at Patras and Nemours; above 50° at most of the Mediterranean stations. Lowest 5° at Berlin and Swinemunde, 10° at Prefort, and 13° at Munich, considerably below the freezing point over northern and Central Europe generally and also over the greater part of England. Remaining below the freezing point all day at several of the English stations, but rising briskly in Ireland and touching 50° in some places.

Wind light and variable in the south of our Islands, but S[1] or SW[1] on our extreme western and northern coasts and NW[1] on the east coasts of England. E[1] in the west of France, NW[1] in the central and southern parts of that country and also over the Spanish Peninsula, S[1] to E[1] over Italy and the Adriatic, with a gale at Lérina. Variable in Germany and Austria, SE[1] over Russia, E[1] or NE[1] in Scandinavia. Subsequently increasing from the S[ward] on our extreme western coasts, and blowing a gale in the Hebrides.

Barometer highest 30·7 ins: and more over northern Russia; 29·9 ins: and upwards in an anticyclone covering nearly the whole of Russia and Scandinavia and also in smaller systems lying respectively over Central England and over Brittany - Lowest 29·1 ins: and less in a rather deep depression with its centre over Corsica and the Italian coasts. Barometer falling later in the west and north of our Islands, and large depression appearing 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 (haze), o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

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

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

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

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„ Weekly „ „ £1 10 0 „

DAILY WEATHER REPORT

for 8 a.m. on Sunday 17th 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	30·29	21	2	0	0	30·59	+ ·62	5	5	− 22	2	0	f	*	0	*	30	?	008
	Hernösand	30·38	−3	2	0	b	30·58	+ ·50	2	1	− 12	N	4	0	*	b	*	?14	−6	—
	Stockholm	30·32	10	2	0	b	30·36	+ ·19	26	26	+ 10	NNE	2	s	*	b	*	28	10	—
	Wisby	30·22	35	NE	4	0	30·19	+ ·08	34	34	+ 2	ENE	4	r	*	0	*	36	28	020
	Karlstad	30·34	19	2	0	0	30·42	+ ·25	8	8	− 12	N	2	b	*	0	*	*	*	—
	Bodö	30·19	23	E	4	b	30·25	+ ·32	33	31	+ 12	E	4	b	1	b	*	?	18	—
	Christiansund ...	30·06	33	ESE	2	c	30·28	+ ·41	33	31	− 2	ESE	1	bc	4	c	*	39	32	—
	Skudesnaes ...	30·18	39	SE	6	c	30·29	+ ·34	33	31	− 6	2	0	b	2	qc	*	40	33	*
	Færder (X'iania Fjord)	30·32	26	NE	2	m	30·38	+ ·25	20	?	− 5	NNE	6	c	2	m	*	28	19	—
	The Scaw (Skagen)	30·27	27	E	2	c	30·28	+ ·14	28	27	+ 6	E	4	bc	1	c	*	30	21	—
	Fanö	30·19	23	E	2	b	30·14	− ·01	28	28	+ 9	NE	2	s	*	b	*	28	18	—
British Islands	Sumburgh Head ...	29·67	45	S	8	0	30·10	+ ·69	43	41	0	S	6	0	7	0	*	46	42	021
	Stornoway	29·40	50	SSW	8	r	29·84	+ ·62	47	44	− 1	SSW	7	0	7	r	0·0	50	41	030
	Wick	29·54	40	S	8	0	29·98	+ ·60	43	40	0	S	6	c	7	0	*	45	40	—
	Nairn	29·58	46	SW	1	c	29·91	+ ·59	38	35	− 9	SW	1	bc	1	c	*	52	35	—
	Aberdeen	29·73	43	SSE	7	ogq	30·07	+ ·47	39	36	− 3	SSE	3	og	5	rgq, ogq	0·0	44	39	010
	Leith	29·69	42	S	2	c	30·05	+ ·46	35	33	− 6	ESE	1	0	*	c	*	44	31	—
	Shields	29·83	36	S	3	m	30·05	+ ·29	36	35	+ 7	SSE	2	om	2	f.m	*	36	27	—
	Spurn Head ...	29·89	40	SE	6	c	30·00	+ ·13	37	36	+ 4	E	5	c	4	c	*	?	33	—
	Loughborough ...	29·87	36	SW	2	c	29·99	+ ·12	29	27	− 2	SE	1	og	*	bm.c.bq	*	38	25	—
	Malin Head ...	29·34	50	S	6	og	29·86	+ ·61	40	39	− 8	SE	4	bcm	2	og	*	50	32	—
	Blacksod Pt. ...	29·28	47	NNW	4	r	29·77	+ ·54	45	43	− 7	SSE	5	op	4	rq.r	*	53	43	3·27
	Donaghadee ...	29·52	49	S	6	oq	29·90	+ ·40	41	40	− 8	S	6	cq	6	oq	*	50	39	—
	Liverpool (Bidston)	29·74	37	ESE	5	c	29·97	+ ·24	29	27	− 2	E	4	0	3	c	*	39	29	—
	Holyhead	29·58	46	SSE	8	cq	29·88	+ ·26	34	33	− 12	ENE	2	b	1	cq	*	47	30	—
	Parsonstown ...	29·36	51	SE	2	0	29·80	+ ·38	40	38	− 9	SE	1	0	*	0	0·0	51	40	—
	Valencia	29·18	53	SE	6	r	29·63	+ ·31	49	46	− 3	ESE	5	oq	5	rgq.r	0·0	54	44	1·92
	Roche's Point ...	29·31	52	S	8	r	29·68	+ ·20	46	45	− 5	SE	8	r	5	rm.r	*	52	45	052
	Pembroke (St. Ann's Hd.)	29·56	49	SSE	7	0	29·77	+ ·12	38	37	− 10	E	6	c	5	0	0·0	50	35	009
	Scilly	29·43	52	SSE	9	0	29·59	− ·03	44	41	− 7	ESE	8	0	8	m.0	0·0	54	40	0·17
	Jersey (St. Aubin's) ...	29·81	41	SSE	6	bc	29·81	− ·12	29	27	− 12	ESE	4	bm	3	c	*	42	28	—
	Portland Bill ...	29·77	44	S	6	c	29·82	− ·03	37	34	− 8	SE	6	0	5	c	*	46	35	001
	Dungeness	29·93	38	SSE	3	b	29·95	− ·03	30	29	− 11	ESE	3	c	3	c.b	*	?	25	—
	London (Brixton) ...	29·90	35	ESE	1	b	29·96	+ ·02	26	24	− 5	ENE	1	b	*	ogf.b	0·6	43	25	—
	Oxford	29·86	38	SE	3	0	29·97	+ ·09	28	25	− 4	ENE	3	bc	*	0	*	39	25	—
	Yarmouth	29·93	37	SE	5	c	29·98	+ ·02	36	34	+ 10	ENE	4	c	4	bc.c	*	88	26	—
Germany	Cuxhaven	30·08	27	NE	2	0	29·99	− ·11	32	32	+ 10	NE	2	0	*	0	*	32	22	—
	Berlin														*		*			
	Wiesbaden	*	*	*	*	*	29·93	− ·07	26	25	+ 1	N	3	0	*	*	*	28	25	—
	Munich	29·88	6	2	0	b	29·91	+ ·12	4	4	− 8	E	2	0	*	b	*	16	1	—
France & Netherlands.	The Helder ...																*			
	Brussels	*	*	*	*	*	29·96	− ·12	24	24	+ 2	ENE	1	f	*	f	*	24	17	—
	C. Gris Nez ...	29·96	28	S	2	b	29·90	− ·11	21	21	− 10	SE	1	m	1	b	*	37	19	—
	Paris	29·97	21	2	0	0	29·90	− ·11	22	22	+ 3	NE	1	0	*	0	*	25	19	—
	Brest	29·62	48	S	5	0	29·62	−·16	37	37	− 13	E	5	0	5	0	*	50	34	—
	Lorient	29·71	45	S	6	0	29·71	− ·17	28	28	− 19	ESE	5	c	5	0	*	50	28	—
	Rochefort	29·88	32	ESE	3	b	29·69	−·39	23	23	− 6	ENE	4	c	*	b	*	36	21	—
	Belfort	29·93	19	E	4	m	29·90	−·06	17	15	0	ENE	3	m	*	m	*	22	17	—
	Lyons	29·95	25	NNW	1	0	29·92	−·06	19	18	− 3	WNW	1	b	*	0	*	26	18	—
	Nice	29·68	41	E	1	bc	29·78	+ ·23	43	41	+ 1	E	2	r	3	bc	*	45	39	—
	Perpignan	29·81	37	N	2	b	29·79	·00	27	25	− 8	W	2	0	*	b	*	42	23	—
	Biarritz	29·77	38	E	4	bc	29·60	−·39	47	46	+ 15	S	3	0	2	bc	*	47	32	—
Span. Pen.	Corunna	29·55	57	SSE	6	0	29·63	?	45	45	− 8	NW	3	r	5	0	*	57	43	059
	Lisbon	29·79	55	NNW	5	0	29·75	−·27	47	43	− 5	NNW	4	0	*	0	*	59	46	047
	Azores (P. Delgada)	30·40	57	N	4	c	30·41	+ ·19	54	50	− 7	NNW	3	c	2	c	*	63	52	—

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

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

Bright Sunshine yesterday Southport 0·5 *hrs.*

WEATHER CHARTS

FOR Sunday, 17th December, 1899.

BAROMETER, WIND AND SEA.

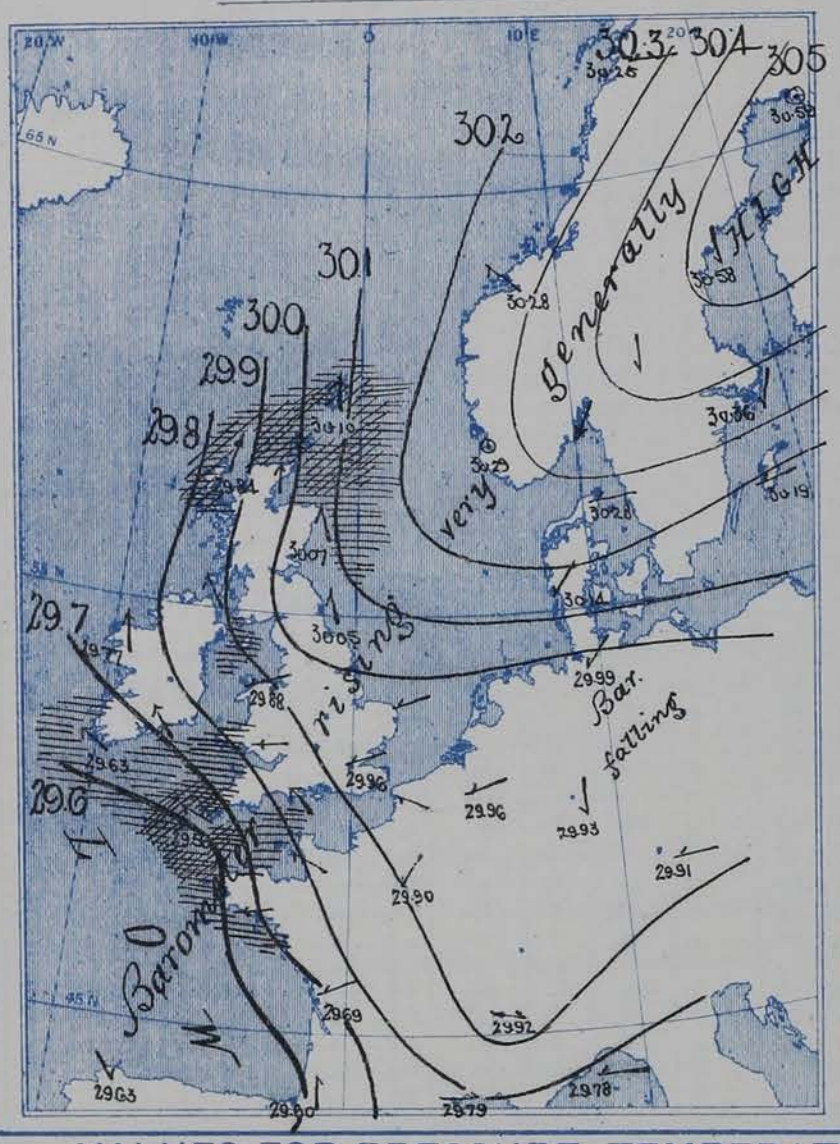
BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show 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*

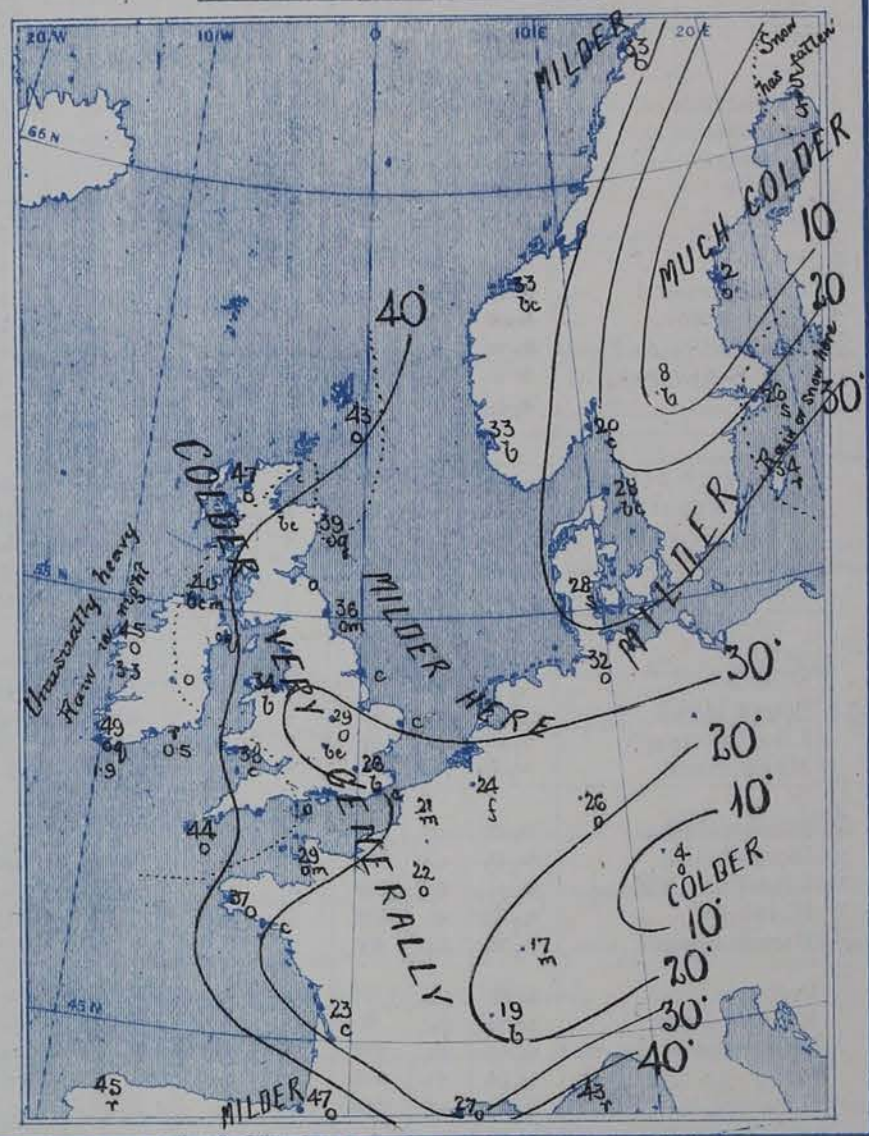


TEMPERATURE AND WEATHER.

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 Gulf of Bothnia; 30·0 ins: and upwards in an anticyclone lying over the whole of northern Europe and extending westwards over the northeastern parts of Great Britain.

Lowest, 29·6 ins: and less in a large depression lying over the Bay of Biscay and to the southwestwards of our Islands.

Gradient rather steep on our extreme southwest coasts, but moderate or slight elsewhere.

Barometer rising in our Islands and also in Scandinavia, but falling elsewhere,—most in the west of France.

TEMPERATURE

Highest, (1) 49° at Valencia (Ireland) 47° at Stornoway and 46° at Rochers Point; (2) 47° at Biarritz and Lisbon, and 45° at Coruna.

Lowest, (1) 2° at Vernösands, 5° at Haparanda and 8° at Karlstad; (2) 4° at Munich and 17° at Belfort; lowest in our Islands 26° in London

During yesterday the thermometer rose to 50° and upwards at several of our western and extreme northern stations, and to 54° at Valencia (Ireland) & Scilly.

Sharp frost occurred over England at night, the thermometer on the grass falling at Loughborough to 17°.

WIND

SE^ on the west coasts of our Islands and France, and strong to a gale in the southwest of our Islands; strong from the S^wd in the north of Scotland.

Light to moderate from the E^ly or NE^ly over the east of England and also over Scandinavia. Variable in the south of France, NW^ly in the western parts of the Spanish Peninsula.

WEATHER

Fine in isolated parts of the United Kingdom, but cloudy or dull over Western Europe as a whole, with rain at Rochefort, Corunna & Nice.

Rain is also falling at Wisby, and snow at Stockholm and Faro.

Rain fell yesterday in the extreme southwest, west and north of our Islands, and very heavily in the west of Ireland. At Blackrock the fall amounted to as much as 3·3 ins:.

SEA

Very high at Scilly, high off the north of Scotland, and rough or rather so on nearly all parts of our coasts, as well as off the northwest of France.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 18th DEC: 1899.

DISTRICTS.	FORECASTS.
To SCOTLAND NORTH	NONE ISSUED
1 SCOTLAND EAST	
2 ENGLAND N.E.	
3 ENGLAND EAST	
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	

DISTRICTS.	FORECASTS.
6 SCOTLAND WEST	NONE ISSUED.
7 ENGLAND N.W.	
8 ENGLAND S.W.	
9 IRELAND NORTH	
10 IRELAND SOUTH	
WARNINGS	At 0·15 pm yesterday to districts 7 and 8. Hoist South Cone. The signals are also flying in districts 0, 6, 10 and parts of 1 & 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.	WIND. Force.	WEA.	SEA.
Skudesnes ...	30·07	40	37	SSE	6	o	4
Sumburgh Head	29·53	45	45	S	7	o	7
Stornoway... ...	29·30	50	49	SSW	8	r	8
Aberdeen	29·65	42	41	SSE	7	orgq	7
Shields ...	29·78	35	34	S	2	f	2
Malin Head ...	29·28	50	49	S	6	o	4
Blacksod Pt. ...	29·21	52	51	S	7	rq	6
Holyhead	29·58	47	44	SSE	8	c	6

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Valencia	29·20	52	52	SSE	5	rgq	6
Scilly	29·49	52	51	SSE	8	m	7
Jersey	29·85	41	37	SE	6	c	5
Portland Bill ...	29·80	43	42	S	6	ofp	5
Dungeness ...	29·93	41	37	S	3	c	3
London (Westminster)	29·89	44	39	SE	2	bm	*
Yarmouth ...	29·93	38	35	SSE	4	bc	4
Rochefort ...	30·04	36	34	ESE	3	b	*

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

Weather in morning cloudy or dull over our Islands and the Continent as a whole, with fog in the southeast of England, and also over the Netherlands, North Germany and the northeast of France. Rain falling at several of our more western and extreme northern stations, as well as in some parts of northern Italy and the south of France, and snow in many parts of Germany and Finland. Fine at several of the Scandinavian stations and also in the southwest of France. Very heavy rain falling later in the west of Ireland, as much as 3·3 ins. at Blacksod Pt.

Temperature risen over western and central Europe generally – quickly at our more western stations and also in North Germany. Morning readings highest 61° at Athens and Patras, 56° at Nemours and 55° at Oran; above 50° at several of the Mediterranean stations and also on our more extreme east and southwest coasts. Lowest 1° at Archangel, 12° at Kiew, and 14° at Hernösand; (2) 12° at Munich, 17° at Belfort and 19° at Paris and Prague. Rising during day to 50° and upwards at several of our western and extreme northern stations, and to 54° at Valencia (Ireland) and Scilly. Sharp frost occurring over the eastern and central parts of England at night.

Wind S³ in our Islands and strong to a gale in force in the west and extreme north; SE³ or E³ in the west of Norway. Light from between N. and E. over the greater part of France; moderate from the W^ward or NW^ward in Germany and Austria; SE³ in Russia, calm in the Gulf of Bothnia; E³ or NE³ over Denmark and the Baltic; variable in Italy and the Spanish Peninsula. Subsequently shifting to the N^ward on the west coasts of Ireland; no important change occurring elsewhere.

Barometer highest 30·7 ins. and upwards over northern Russia; 30·0 ins. and upwards in an anticyclone covering the whole of northern and eastern Europe, and extending in the form of a long band across the Netherlands and northern and central France. Lowest 29·3 ins. and less. in a large depression lying off our extreme west and northwest coasts. 29·6 ins. and less, in a complex disturbance lying over the Gulf of Genoa, Corsica and the northern parts of Italy and the Adriatic. Depression off our western coasts subsequently moving southwards, barometer rising in the north of our Islands and also in Scandinavia.

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, 18th 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	30·15	18	W	0	0	30·19	+·20	14	13	+9	W	0	0	·	0	·	21	3	–
	Hernösand	30·67	11	N	2	0	30·69	+·11	16	16	+14	E	2	f	·	0	·	?	−9	–
	Stockholm	30·41	35	W	0	r	30·55	+·19	36	35	+10	SE	2	c	·	r	·	37	26	0·14
	Wisby	30·35	36	SE	4	0	30·49	+·30	33	32	−1	SSE	4	b	·	0	·	36	30	0·94
	Karlstad	29·39	28	ENE	4	8	30·44	+·02	34	34	+26	ENE	2	c	·	8	·	·	·	0·16
	Bodö	30·40	34	E	2	b	30·45	+·20	33	31	0	E	2	bc	1	b	·	38	30	–
	Christiansund	30·39	32	W	0	b	30·32	+·04	29	28	−4	W	0	b	3	b	·	34	27	T
	Skudesnaes	30·30	30	NNE	2	b	30·27	−·02	35	33	+2	W	0	c	2	b	·	36	30	·
	Farder (Christiania Fjord)	30·37	26	NNE	6	8	30·38	·00	34	33	+14	N	5	r	2	8	·	?	19	–
	The Scaw (Skagen)	30·25	32	ENE	4	8	30·29	+·01	35	35	+7	SE	4	r	1	8	·	36	27	0·12
	Fanö	30·08	33	NE	2	0	30·14	·00	33	33	+5	E	3	·	·	0	·	34	28	·
British Islands	Sumburgh Head	30·16	41	S	4	0	30·14	+·04	41	38	−2	S	2	0	5	0	·	44	38	0·01
	Stornoway	30·04	40	WSW	4	b	30·01	+·17	41	38	−6	SSW	5	0	5	0, b	0·0	47	34	–
	Wick	30·09	40	SW	5	0	30·07	+·09	43	41	0	S	6	0	4	0	·	43	39	–
	Nairn	30·12	32	W	0	b	30·09	+·12	32	30	−6	W	0	0	1	b	·	41	22	–
	Aberdeen	30·16	40	SSE	2	0g	30·15	+·08	40	38	+1	SE	2	0g	4	0g. p	0·0	41	38	0·09
	Leith	30·13	34	ESE	2	c	30·12	+·07	36	35	+1	W	0	b	·	c	·	38	32	–
	Shields	30·09	39	E	2	p	30·11	+·06	38	37	+2	NW	2	p	2	p	·	40	35	0·01
	Spurn Head	30·14	38	NE	2	c	30·09	+·07	40	39	+3	NE	3	c	3	c. p	·	?	37	0·04
	Loughborough	30·07	39	NE	2	0	30·11	+·12	32	32	+3	NNW	1	0f	·	gm. c. rm	·	33	29	–
	Malin Head	30·03	34	SSE	4	bcm	30·03	+·17	34	33	−6	SSE	3	b	2	bc. bcm	·	42	31	–
	Blacksod Pt.	29·96	42	SSE	4	b	29·98	+·21	43	41	−2	SSE	4	c	4	b	·	45	36	–
	Donaghadee	30·07	39	S	4	0	30·08	+·18	38	37	−3	S	2	c	3	0	·	42	37	–
	Liverpool (Fidleton)	30·08	34	E	1	0	30·12	+·15	35	34	+6	W	0	m	?	0m	·	36	28	–
	Holyhead	30·02	32	E	1	b	30·10	+·22	34	32	0	SE	1	b	0	b	·	36	30	–
	Parsonstown	30·03	38	SE	1	0	30·08	+·18	30	29	−10	W	1	c	·	c	0·6	41	26	–
	Valencia	29·94	45	E	4	0	30·04	+·11	44	40	−5	ESE	2	c	4	0	0·0	49	42	–
	Roche's Point	29·95	45	ENE	5	0	30·08	+·10	45	42	−1	S	3	c	4	0	·	46	38	0·08
	Pembroke (St. Ann's Hd.)	30·02	36	E	4	0	30·10	+·33	38	37	0	ENE	3	c	2	0	0·1	38	29	–
	Scilly																			
	Jersey (St. Anbin's)	29·90	32	E	3	bm	30·03	+·22	34	32	+5	NE	3	bm	8	b. bm	·	38	26	–
	Portland Bill	29·96	34	ENE	4	0m	30·05	+·23	38	36	+1	NE	3	0	3	0	·	46	36	–
	Dungeness	29·96	36	ESE	2	0	30·03	+·08	37	36	+7	N	1	f	1	0	·	?	26	–
	London (Brixton)	29·99	37	E	1	0	30·08	+·12	37	37	+11	NNE	1	0gm	·	0fg. ers	0·0	38	26	0·04
	Oxford	30·05	34	NE	3	0	30·10	+·13	34	34	+6	N	1	0r	·	0, 0	·	34	26	–
	Yarmouth	29·99	40	ENE	3	c	30·04	+·06	41	40	+5	NE	4	cq	4	c	·	44	35	0·09
France & Netherlands. Germany.	Cuxhaven	29·97	34	NNE	2	0	30·11	+·12	33	33	+·1	S	2	0	·	0. S	·	34	30	–
	Berlin	30·02	33	SE	2	0	30·15		32	31		SE	1	0	·	0	·	34	32	0·08
	Wiesbaden	·	·	·	·	·	30·10	+·17	20	20	−6	NE	2	c	·	·	·	28	19	–
	Munich	29·97	1	SE	2	b	30·06	+·15	−4	−4	−8	E	2	b	·	b	·	9	−4	–
	The Helder	29·98	35	NE	1	f	30·03		34	34		W	0	m	0	f	·	36	30	0·12
	Brussels	·	·	·	·	·	30·06	+·10	28	28	+4	W	0	0	·	0	·	30	23	–
	C. Gris Nez	29·93	26	E	1	s	30·03	+·13	32	30	+11	SE	1	0	1	0	·	36	21	–
	Paris	29·94	28	NE	2	0	30·02	+·12	19	19	−3	NNE	1	m	·	0	·	28	18	–
	Brest	29·81	31	NE	2	c	30·00	+·38	41	41	+4	E	2	c	2	c	·	50	28	–
	Lorient	29·82	29	NE	6	b	29·96	+·24	27	27	−1	ENE	4	bc	5	bc	·	39	28	–
	Rochefort	29·73	29	ENE	4	bc	30·00	+·31	25	24	+2	ENE	4	0	·	bc	·	34	28	–
	Belfort	29·97	19	E	3	m	30·11	+·21	16	14	−8	ENE	3	m	·	m	·	27	13	–
	Lyons	29·93	27	N	1	0	30·04	+·12	23	22	+4	N	2	bc	·	0	·	30	22	–
	Nice	29·89	46	W	0	c	30·01	+·23	49	40	−1	ENE	4	c	2	c	·	48	39	0·20
	Perpignan	29·79	33	W	0	0	29·82	+·03	42	42	+15	W	2	0	·	0	·	43	27	0·28
	Biarritz	29·64	49	W	0	0	29·76	+·16	40	38	−7	E	2	0	5	0	·	42	34	0·08
Span. Pen.	Corunna																·			
	Lisbon	29·71	48	WNW	0	c	29·76	+·01	46	44	−1	NNW	3	·	·	c	·	52	45	0·32
	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 recorded on the Tower of the Wesleyan Training College, Westminster*

Bright Sunshine yesterday Southport 0·4 hrs.

WEATHER CHARTS

FOR Monday, 18th December, 1899.

BAROMETER, WIND AND SEA.

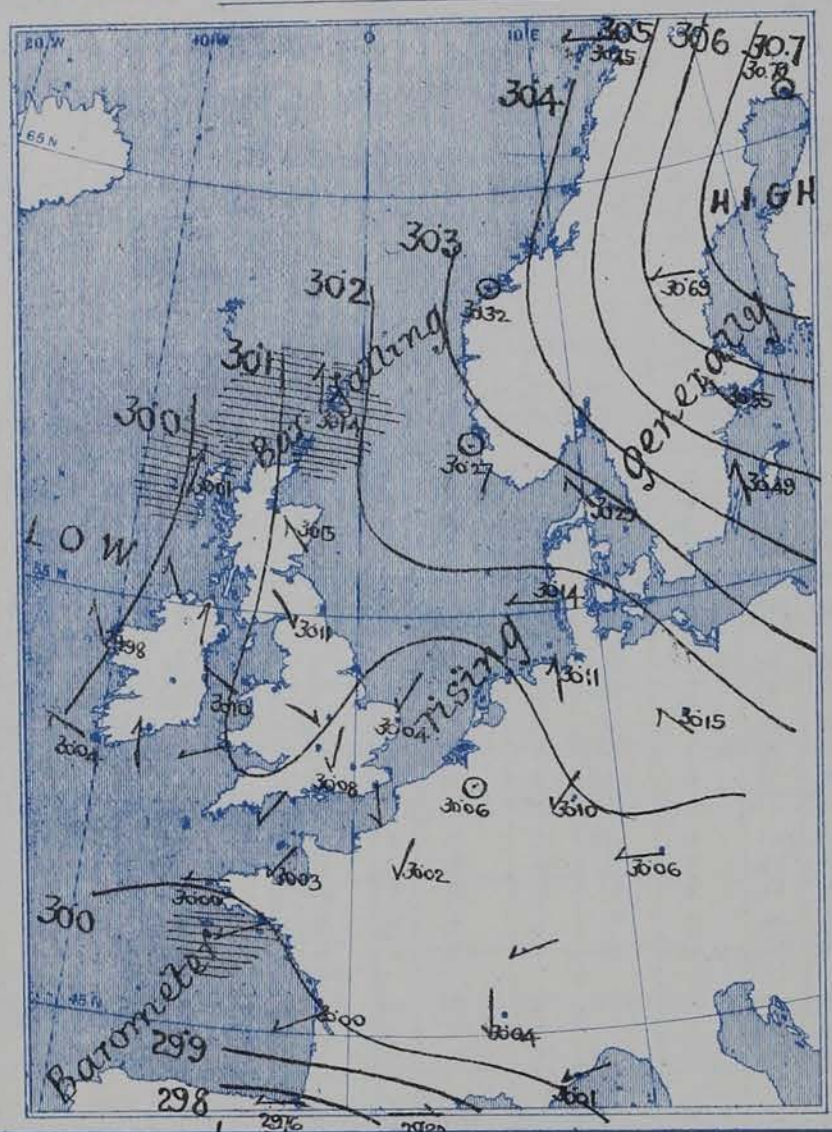
BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show 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* ▓

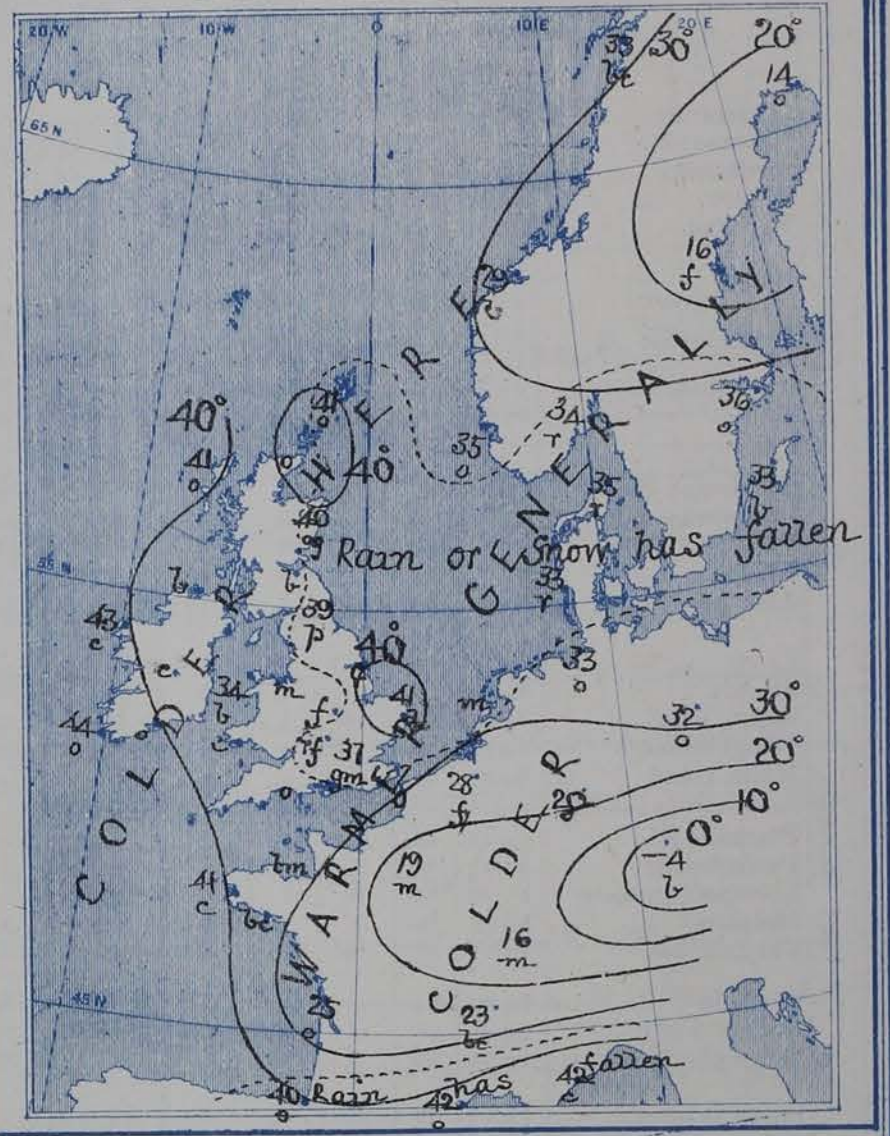


TEMPERATURE AND WEATHER.

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 Dry Bulb 9 a.m.	Means of Wet Bulb 8 a.m.	Means of Daily Maximum.	Means of Daily Minimum.	Absolute Extremes. Maximum.	Years.	Minimum.	Years.	RAINFALL Means, 1866—95.	BRIGHT SUNSHINE, Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·656	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, 30·7 ins: and upwards, over the Gulf of Bothnia; 30·1 ins: and upwards in an anticyclone lying over the whole of Northern Europe and extending in the form of a ridge over a considerable portion of Great Britain.
Lowest, 29·8 ins: and less, in a depression over the Spanish Peninsula and the southwest of France.
Gradients slight. Barometer rising generally, but falling a little in the north of Scotland and the west of Norway.

TEMPERATURE

Highest, 45° at Rochebrune, 44° at Valencia (Ireland) and 43° at Nice and Blackhead Point; (2) 42° at Nice and Perpignan.
Lowest, (1) —4° F. at Munich, +16° at Belfort, 19° at Paris; (2) 14° at Haparanda, and 16° at Hernosand; lowest in our Islands 30° at Parsonstown.
The maxima registered yesterday were below 40° in many parts of Great Britain; at Loughborough the thermometer did not exceed 33°.

WIND

Light from the N^w. or NE^w. over the greater part of England; moderate from the E^w. or NE^w. in the west of France.
Light to moderate from the SE^w. in Ireland, fresh to strong from the S^w. in the north of Scotland.
Calm in the west of Norway; E. or SE. in Sweden, Denmark, and North Germany.

WEATHER

Fine at some of our own western stations, but cloudy or dull over Western Europe as a whole, with fog and slight rain in many parts of England. Rain is also falling in Denmark and at Faeroe.
Slight rain fell yesterday at several of our own eastern and southern stations and snow in Denmark and the south of Sweden, as well as at Leerhaven and Cape Finisterre.

SEA

Moderate or slight generally, but rather rough off the north of Scotland.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone over northern Europe still holds, and there are now some indications of the advance of another depression towards our extreme west and northwest coasts. No decided change in the weather is probable over England, but freshening S^w. winds are likely to set in again over Ireland and Scotland.

FORECASTS

For the 24 hours ending at NOON on 19th DEC^r. 1899.

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	S^w. winds, strong; dull, some rain.
1	SCOTLAND EAST	S^w. winds, freshening; dull, some rain.
2	ENGLAND N.E.	Light Variable breezes; cloudy, some rain in places.
3	ENGLAND EAST	N^w. and NE^w. winds, light; cloudy, some mist or fog, slight rain in places.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	

DISTRICTS.		FORECASTS.
6	SCOTLAND WEST	Same as No 1
7	ENGLAND N.W.	Light breezes, chiefly E^w.; fair generally, some mist or fog.
8	ENGLAND S.W.	
9	IRELAND NORTH	S^w. winds, freshening; fair at first, some rain later.
10	IRELAND SOUTH	
	WARNINGS	NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Skudesnaes ...	30·31	34	31	N	2	b	2
Sumburgh Head	30·13	41	38	S	4	o	6
Stornoway... ...							
Aberdeen							
Shields							
Malin Head ...	29.96	37	36	SSE	5	bcm	3
Blacksod Pt.. ...	29.96	42	39	SSE	4	b	3
Holyhead	29.99	36	33	E	2	b	1
Valencia							
Scilly							
Jersey	29.87	27	25	E	3	b	3
Portland Bill ...							
Dungeness ...	29.95	35	34	ESE	2	o	2
London (Westminster)							
Yarmouth ...	29.99	38	36	ENE	3	c	3
Rochefort ...	29.89	32	30	ENE	4	c	*

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 10TH TO THE 16TH DEC: 1899.

During the greater part of last week the barometer was highest over northern Europe, but also high over and to the southwestward of the Spanish Peninsula. The former system occasionally spread over the central countries and also over a considerable portion of our own Islands, the weather at those times being dry and very cold, with severe frost in many places. In France and Germany the frost was hard and continuous and even over Great Britain some very low temperatures were registered, especially on the night of the 13th and 14th, the thermometer on the former occasion falling to a minimum of 8° at Loughborough.

Over the western countries as a whole the influence of the northern anticyclone was, however, interrupted at times by depressions which appeared in the first case off the Irish coast, and which afterwards moved southeastwards or southwards to the Bay of Biscay and Spain, and in one instance (on the 14th) to the Mediterranean. As these disturbances approached the wind rose to a gale from the S and on many parts of our western and northern coasts, with rain in Ireland, and snow in many parts of Great Britain, France and Central Europe, while in their rear the winds shifted suddenly to the N. in the west and gradually subsided. The depression which appeared off our western coasts on the 16th occasioned very heavy rain in the west of Ireland (as much as 3·3 ins. at Blacksod Point) and a temporary change to milder weather over the whole Kingdom, the thermometer at many of our western stations rising above 50°. At the close of the week, however, frost was again setting in in most districts.

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 19th 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.)					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	30·74	28	S	2	o	30·79	·00	28	28	+ 14	S	2	o	•	o	•	28	12	—
	Hernösand	30·73	24	2	o	f	30·77	+ ·08	30	30	+ 14	2	o	f	•	f	•	30	3	—
	Stockholm	30·66	33	S	2	o	30·75	+ ·20	33	31	— 3	SE	2	o	•	o	•	36	32	—
	Wisby	30·62	32	SSE	4	o	30·71	+ ·22	30	29	— 3	SSE	4	o	•	o	•	34	28	—
	Karlstad	30·56	32	E	4	o	30·63	+ ·19	32	32	— 2	NE	2	o	•	o	•	•	•	—
	Bodö	30·43	37	E	2	b	30·43	— ·02	37	33	+ 4	E	4	b	1	b	•	37	30	—
	Christiansund ...	30·32	35	2	o	b	30·38	+ ·06	40	36	+ 11	ESE	1	c	3	b	•	40	27	—
	Skudesnaes ...	30·30	40	S	2	o	30·34	+ ·07	42	38	+ 7	SSE	6	o	4	r.o	•	42	30	•
	Færder (X'iania Fjord)	30·47	36	ESE	4	o	30·54	+ ·16	36	34	+ 2	ENE	4	o	2	o	•	37	34	—
	The Scaw (Skagen)	30·42	35	ESE	4	m	30·50	+ ·21	35	34	0	SE	3	o	o	m	•	36	34	0·04
	Fanö	30·30	33	E	4	o	30·38	+ ·24	33	33	0	E	4	o	•	o	•	34	32	—
British Islands.	Sumburgh Head ...	30·08	41	S	3	o	30·00	— ·14	42	41	+ 1	S	4	o	6	c.o	•	44	38	0·40
	Stornoway	29·90	42	SSW	7	c	29·78	— ·23	45	43	+ 4	S	7	o	7	o, c	0·0	45	39	0·03
	Wick	30·00	42	S	4	c	29·92	— ·15	42	40	— 1	S	5	c	4	c	•	43	39	—
	Nairn	30·03	36	W	1	b	29·93	— ·16	41	36	+ 9	SW	2	c	1	b	•	42	30	—
	Aberdeen	30·09	39	SSW	2	bc	30·07	— ·08	40	37	0	SSE	3	o9	4	cp.bc	0·0	41	36	0·06
	Leith	30·09	39	2	o	o	30·06	— ·06	39	36	+ 3	S	2	bcm	•	o	•	41	34	—
	Shields	30·10	38	WNW	1	o	30·12	+ ·01	38	37	0	SSW	3	c	2	r, c, o	•	39	36	0·04
	Spurn Head ...	30·10	40	NW	3	c	30·17	+ ·10	39	37	— 1	SW	2	c	o	c, mā	•	?	35	—
	Loughborough ...	30·14	45	2	o	f	30·18	+ ·07	35	33	+ 3	SSE	1	ogm	•	fd. c. f. o	•	36	32	0·01
	Malin Head ...	29·91	37	SSW	5	bcm	29·76	— ·27	43	43	+ 9	S	6	rm	4	bm, bcm	•	43	32	0·01
	Blacksod Pt. ...	29·88	47	SSW	5	opq	29·81	— ·17	45	44	+ 2	NW	3	r	4	bc. opq	•	49	43	0·41
	Donaghadee ...	30·07	40	SSW	3	b	29·97	— ·11	44	44	+ 6	SSE	4	oq	4	b	•	44	38	0·01
	Liverpool (Bidston)	30·13	37	E	1	o	30·12	·00	35	34	0	ESE	3	b	?	om	•	39	34	—
	Holyhead ...	30·09	38	SE	1	o	30·04	— ·06	42	40	+ 8	S	2	om	1	b, o	•	42	32	—
	Parsonstown ...	30·01	40	SE	1	o	29·90	— ·18	45	44	+ 15	SE	1	or	•	c, o	1·8	45	30	0·10
	Valencia	29·95	47	SE	4	og	29·84	— ·20	49	47	+ 5	SSE	5	rmg	5	og	0·0	49	43	0·48
	Roche's Point ...	30·03	47	S	5	o	29·98	— ·10	48	47	+ 3	SSW	8	rm	5	o	•	48	45	—
	Pembroke (St. Ann's Hd.)	30·08	41	E	3	o	30·04	— ·06	46	44	+ 8	SE	5	o	4	o	1·4	46	38	—
	Scilly																			
	Jersey (St. Aubin's) ...	30·06	38	ENE	2	om	? 30·09	+ ·06	37	35	+ 3	ESE	2	bmw	2	b, om	•	40	32	—
	Portland Bill ...	30·08	39	NE	4	o	30·09	+ ·04	41	40	+ 3	E	4	om	4	o	•	41	35	—
	Dungeness	30·07	41	ENE	1	c	30·14	+ ·11	37	36	0	ESE	2	b	2	c	•	?	36	—
	London (Brixton) ...	30·08	40	NNW	2	o	30·17	+ ·09	34	34	— 3	2	o	f	*	fg, o	0·0	41	34	0·03
	Oxford	30·15	35	N	1	f	30·16	+ ·06	35	34	+ 1	NE	2	o	*	or. f	•	37	34	0·01
	Yarmouth	30·07	41	N	1	cf	30·16	+ ·12	40	38	— 1	SE	3	b	3	fg. cf	•	42	36	—
France & Netherlands. Germany.	Cuxhaven	30·24	31	E	1	o	30·29	+ ·18	33	33	0	E	1	f	•	o	•	34	30	—
	Berlin	30·28	35	ESE	2	o	30·36	+ ·21	30	29	— 2	ESE	3	o	•	o	•	36	30	—
	Wiesbaden	•	•	•	•	•	30·27	+ ·17	23	23	+ 3	E	3	o	•	•	•	30	18	—
	Munich	30·17	1	2	o	b	30·26	+ ·20	6	6	+ 10	E	2	s	•	b	•	7	— 4	0·04
	The Helder ...	30·12	33	2	o	m	30·21	+ ·18	30	30	— 4	E	1	m	2	m	•	37	30	—
	Brussels	•	•	•	•	•	30·21	+ ·15	21	21	— 7	2	o	f	•	b	•	33	13	—
	C. Gris Nez ...	30·10	30	ESE	1	bc	30·10	+ ·07	28	28	— 4	E	1	m	1	bc	•	37	25	—
	Paris	30·09	23	2	o	b	30·10	+ ·08	22	22	+ 3	NNE	3	o	•	b	•	31	15	—
	Brest	30·00	34	NE	2	b	30·03	+ ·03	34	33	— 7	NE	1	b	2	b	•	41	28	—
	Lorient	30·01	34	NE	4	bc	30·03	+ ·07	30	30	+ 3	ENE	4	m	4	bc	•	39	27	—
	Rochefort	29·89	36	SE	3	o	29·92	— ·08	37	36	+ 12	ENE	2	o	•	o	•	37	25	—
	Belfort	30·10	28	ENE	2	m	30·19	+ ·08	21	20	+ 5	ENE	2	m	•	m	•	32	16	—
	Lyons	30·10	32	WNW	1	m	30·19	+ ·15	31	29	+ 8	WNW	1	m	•	m	•	33	29	0·04
	Nice	30·06	49	E	4	o	30·09	+ ·08	51	42	+ 9	E	6	o	4	o	•	52	42	0·04
	Perpignan	29·94	51	NE	3	r	29·98	+ ·16	53	52	+ 11	SE	2	c	•	r	•	53	47	1·18
	Biarritz	29·85	51	WSW	4	o	29·94	+ ·18	55	46	+ 15	WSW	3	o	3	o	•	55	40	—
Spain & Portugal.	Corunna																•			
	Lisbon	29·91	46	N	4	b	30·02	+ ·26	44	40	— 2	NNE	2	b	•	b	•	50	43	—
	Azores (Ponta Delgada)	30·12	60	SW	4	r	29·98	— ·30	62	61	+ 5	SSW	5	r	5	r	•	63	59	0·16

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 recorded on the Tower of the Wesleyan Training College, Westminster*

Actual Sunshine yesterday Sunshine 0·0 hrs

WEATHER CHARTS

FOR Tuesday, 19th December, 1899.

BAROMETER, WIND AND SEA.

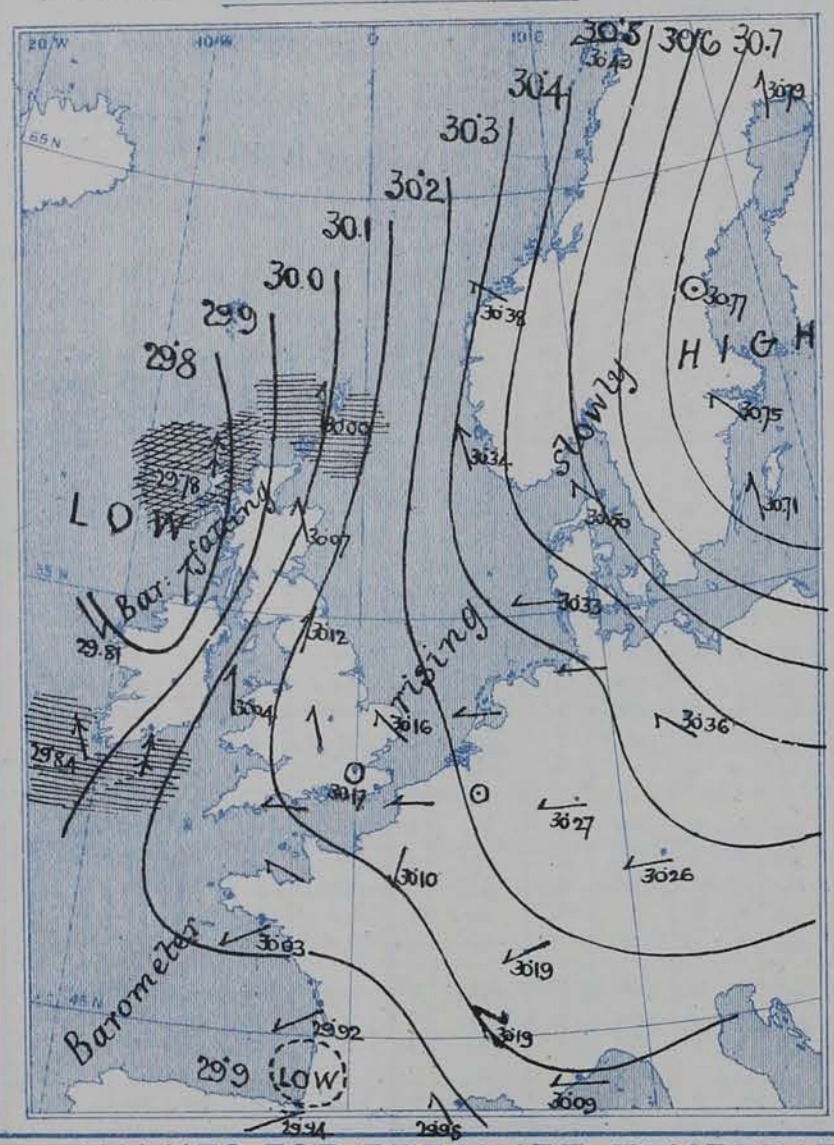
BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show 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* ▓

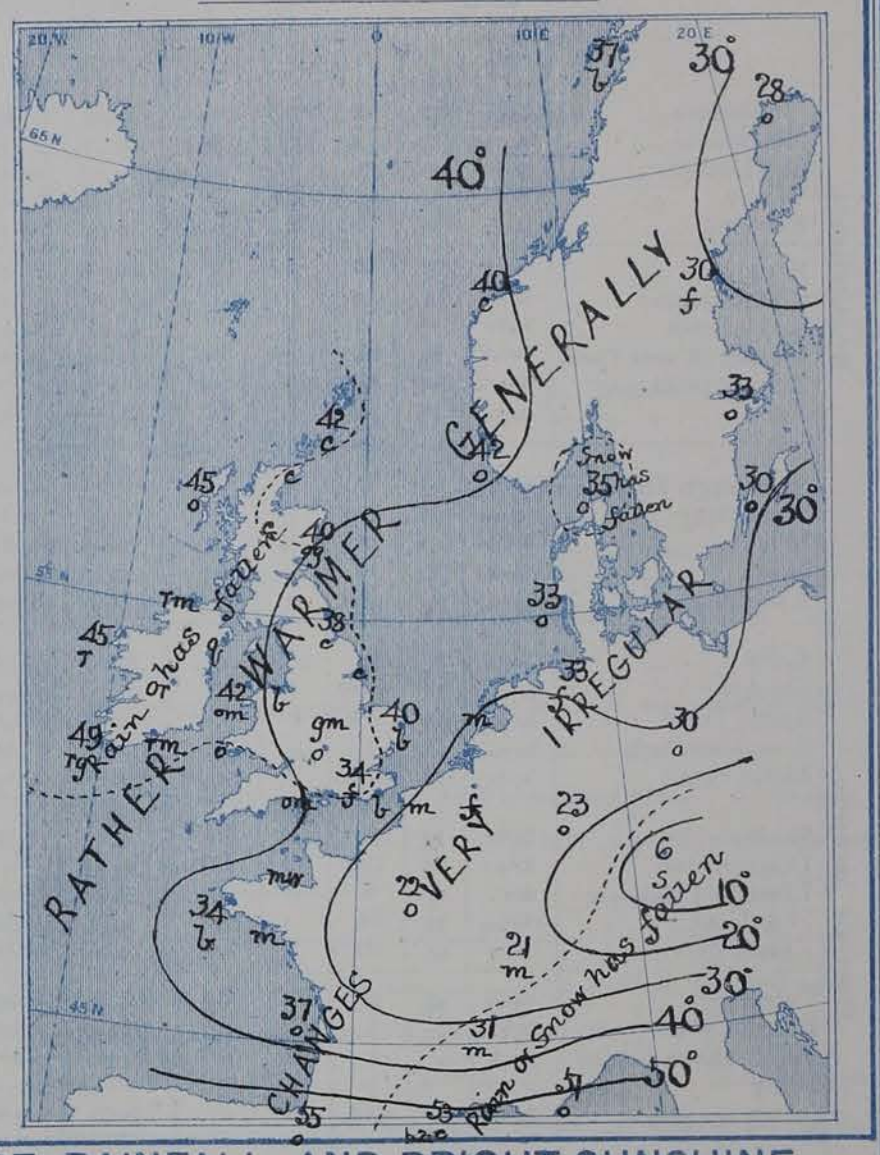


TEMPERATURE AND WEATHER.

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	29·885	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 Westminste.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.4 inches and more over Sweden, and exceeding 30.3 inches all over Scandinavia and the Danish Promontory.
Lowest 29.8 inches and less in a depression off our own northwest coasts, and nearly as low at Valencia.
Gradients were rather steep in the north-west and north of our Islands, slight generally elsewhere, and mainly favourable for southeasterly and easterly winds over the south of England.
Barometer was falling at our northwestern and northern stations, steady at Valencia.

TEMPERATURE

Highest 49° to 48° in the south of Ireland, 46° at Pembroke and above 40° over Scotland.
Lowest (1) -28° to 30° in the north of Sweden; (2) 6°.7. at Munich, 21° at Brussels, 22° at Paris, 30° at Berlin.
The maxima recorded yesterday exceeded 40° all over the United Kingdom; but at Munich the maximum was only 7°.7. and the minimum -4°.

WIND

Easterly to Southerly (light and anticyclonic) over the greater part of England; Southerly and very strong over nearly the whole of Ireland and the west of Scotland, but Northwesterly at Blacksod Point (Co. Mayo).

WEATHER

Fair or foggy over our eastern districts, dull and rainy in the west. The amounts of rain have not been large so far, but the fogs have been thick in places. Bright Sunshine recorded yesterday amounted to 1.8 hours at Parsonstown, 1.4 hours at Pembroke and 3.3 hours at Llandudno, — none of the other stations report so much as an hour.

SEA

Rough off the south of Ireland, and the northwest and north of Scotland, moderate generally elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A depression off our northwest coasts is moving away to the northward; a secondary disturbance is advancing towards Valencia, and will probably move southeastwards. Colder weather is probable over England.

FORECASTS

For the 24 hours ending at NOON on DECEMBER 20TH 1899.

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	Southerly winds, strong to moderate; rainy.
1	SCOTLAND EAST	
2	ENGLAND N.E.	Southeasterly and Easterly airs; cold, dull, some fog.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	
6	SCOTLAND WEST	Same as Nos: 0 and 1.
7	ENGLAND N.W.	
8	ENGLAND S.W.	Southeasterly and Easterly winds, fresh; cold, some rain.
9	IRELAND NORTH	Same as Nos. 0 and 1.
10	IRELAND SOUTH	Southwesterly to Northwesterly winds, strong to light; rainy, then colder and finer.
	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.	WIND. Force.	WEA.	SEA.
Skudesnaes ...	30·30	38	37	ENE	2	r	2
Sumburgh Head	30·12	41	38	S	3	o	5
Stornoway... ...	29·95	44	40	S	7	o	7
Aberdeen	30·12	41	39	SE	3	cp	4
Shields	30·10	39	38	WNW	2	c	2
Malin Head ...	29·95	37	36	SSW	5	b	2
Blacksod Pt.. ...	29·90	44	42	SSE	5	c	4
Holyhead	30·10	41	39	SE	1	b	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Valencia	29·98	47	42	SE	3	og	4
Scilly							
Jersey	30·04	40	35	ESE	3	b	3
Portland Bill ...	30·06	41	39	NE	3	om	3
Dungeness ...	30·04	42	40	E	1	c	2
London (Westminster)	30·07	41	40	N	1	ofg	*
Yarmouth ...	30·04	42	40	N	2	c	3
Rochefort ...	29·96	36	35	ENE	3	bc	*

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

The Continental Information has not been 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, 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, 20th 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.)					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	30·86	22	NW	2	0	30·86	+·07	29	28	+ 1	NE	4	c	•	0	•	32	21	–
	Hernösand	30·84	32	S	2	0	30·88	+·11	30	29	0	SW	4	c	•	0	•	32	19	–
	Stockholm	30·89	31	SE	2	c	30·91	+·16	33	30	0	SE	2	c	•	0	•	34	28	–
	Wisby	30·80	31	S	4	b	30·90	+·19	28	26	– 2	SSE	4	b	•	c	•	30	27	–
	Karlstad	30·70	32	E	2	c	30·80	+·17	31	29	– 1	ENE	2	c	•	0,5	•	•	•	–
	Bodö	30·52	32	E	4	b	30·58	+·15	32	28	– 5	E	4	b	1	b	•	37	28	–
	Christiansund ...	30·45	40	ESE	4	b	30·53	+·15	39	34	– 1	ESE	2	b	3	b	•	43	36	–
	Skudesnaes ...	30·45	41	SSE	4	c	30·50	+·16	41	37	– 1	SE	4	c	3	c	•	42	36	•
	Færder (X'iania Fjord)	30·64	33	E	4	c	30·70	+·16	34	32	– 2	E	4	c	2	c	•	36	32	0·08
	The Scaw (Skagen)	30·59	32	SSE	2	c	30·63	+·13	35	33	0	SE	4	c	0	c	•	36	30	0·04
	Fanö	30·43	33	E	4	c	30·45	+·07	32	31	– 1	E	6	c	•	0	•	34	30	–
British Islands.	Sumburgh Head ...	30·04	45	S	6	c	30·22	+·22	44	42	+ 2	SSE	5	c	6	c	•	45	40	0·11
	Stornoway	29·84	45	SW	4	c	30·08	+·30	41	40	– 4	WNW	3	r	3	r·c	0·0	47	38	0·18
	Wick	30·00	42	S	4	c	30·17	+·25	43	42	+ 1	S	4	p	6	c	•	45	40	0·10
	Nairn	30·00	42	SE	2	c	30·14	+·21	38	37	– 3	E	0	m	1	c	•	43	36	0·25
	Aberdeen	30·13	40	SSE	3	cq	30·21	+·14	42	40	+ 2	SSE	4	cqqr	5	cqq.cq	0·0	43	40	0·02
	Leith	30·09	39	SSW	3	c	30·18	+·12	39	38	0	E	2	cm	•	c	•	40	36	–
	Shields	30·15	38	S	2	c	30·18	+·06	41	40	+ 3	S	3	cm	2	c	•	41	35	–
	Spurn Head ...	30·18	38	ESE	3	c	30·19	+·02	41	40	+ 2	SE	4	cv	4	c.c	•	43	37	–
	Loughborough ...	30·18	35	SE	1	c	30·20	+·02	34	34	– 1	ESE	1	cqm	•	cqm	•	36	34	–
	Malin Head ...	29·94	44	W	c	r	30·05	+·29	42	42	– 1	S	3	r	3	r	•	45	41	0·10
	Blacksod Pt. ...	29·93	43	W	c	r	30·02	+·21	44	42	– 1	NNE	4	c	•	0·r	•	44	40	0·24
	Donaghadee ...	30·00	45	S	4	r	30·01	+·04	43	43	– 1	SE	4	rq	5	r	•	46	38	0·48
	Liverpool (Bidston)	30·13	35	ESE	3	c	30·15	+·03	34	33	– 1	ESE	4	c	?	cm	•	39	33	–
	Holyhead	30·05	42	S	2	cm	30·08	+·04	42	40	0	E	1	cm	c	c	•	45	40	–
	Parsonstown ...	29·93	45	SE	1	r	30·00	+·10	43	43	– 2	NE	1	cr	•	cr	0·0	46	41	0·61
	Valencia	29·86	48	SE	3	rm	29·96	+·12	46	44	– 3	NNE	5	c	4	crm	0·0	49	43	1·89
	Roche's Point ...	29·93	47	SSW	6	r	29·93	–·05	50	49	+ 2	SSW	3	c	4	r	•	50	46	1·05
	Pembroke (St. Ann's Hd.)	30·02	45	SE	5	c	30·02	–·02	45	44	– 1	ESE	6	r	5	c	0·0	46	?	0·05
	Scilly																			
	Jersey (St. Aubin's) ...	30·07	40	ENE	2	cm	30·11	+·02	44	43	+ 1	ENE	1	cdm	1	cm	•	44	35	0·01
France & Netherlands.	Portland Bill ...	30·09	41	E	3	cm	30·08	–·01	43	43	+ 2	E	4	cm	4	bc.cm	•	44	38	0·17
	Dungeness	30·15	39	ESE	1	b	30·15	+·01	38	37	+ 1	ESE	3	b	1	b	•	41	37	–
	London (Brixton) ...	30·17	38	ESE	1	c	30·17	·00	35	34	+ 1	E	2	cqf	•	cqf.bf	0·0	39	32	–
	Oxford	30·17	36	E	1	c	30·18	+·02	33	33	– 2	NE	1	cqf	•	cqf	•	38	31	–
	Yarmouth	30·17	40	E	4	bc	30·17	+·01	40	38	0	E	4	c	4	c.bc	•	42	36	–
Germany.	Cuxhaven	30·32	34	E	3	c	30·32	+·03	30	30	– 3	E	5	c	•	c	•	34	28	–
	Berlin	30·39	29	ESE	3	b	30·44	+·08	26	25	– 4	ESE	4	c	•	b	•	34	25	–
	Wiesbaden	•	•	•	•	•	30·21	–·06	32	31	+ 9	E	2	c	•	•	•	32	23	–
	Munich	30·23	17	W	c	f	30·17	–·09	19	19	+ 13	W	c	f	•	f	•	19	6	–
France & Netherlands.	The Helder ...	30·22	30	E	3	b	30·21	·00	25	25	– 5	E	1	m	2	b	•	32	25	–
	Brusseis	•	•	•	•	•	30·21	·00	13	13	– 8	W	c	mf	•	mf	•	32	11	–
	C. Gris Nez ...	30·09	27	E	1	m	30·13	+·03	28	26	0	E	2	mf	2	mf	•	36	25	–
	Paris	30·16	32	NE	1	f	30·14	+·04	32	31	+ 10	NNE	1	cf	•	cf	•	32	22	–
	Brest	30·03	44	SE	1	c	30·01	–·02	43	41	+ 9	ESE	2	cf	2	cf	•	46	34	–
	Lorient	30·05	37	SSW	1	m	30·07	+·04	40	39	+ 10	SE	3	m	4	m	•	40	30	–
	Rochefort	30·00	37	ESE	3	c	30·04	+·12	38	37	+ 1	ESE	2	c	•	c	•	41	36	–
	Belfort	30·21	26	ENE	2	m	30·14	–·05	21	20	0	NNE	1	m	•	m	•	37	17	–
	Lyons	30·19	35	N	1	b	30·16	–·03	30	29	– 1	N	1	b	•	b	•	41	27	–
	Nice	30·06	51	E	6	c	29·95	–·14	47	37	– 4	E	5	b	6	c	•	52	43	–
	Perpignan	30·04	47	NE	2	r	30·02	+·04	42	40	– 11	W	2	b	•	r	•	55	41	1·54
	Biarritz	29·99	48	W	c	c	30·02	+·08	50	47	– 5	SE	2	c	2	c	•	55	46	–
Span. Pen.	Corunna																			
	Lisbon	30·08	50	NNE	2	b	30·17	+·15	42	42	– 2	N	3	b	•	b	•	54	41	–
	Azores (P. Delgada)	29·99	56	NW	1	c	30·01	+·03	54	50	– 8	NW	4	b	3	c	•	63	52	–

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

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

Bright Sunshine yesterday Southport 0·0 hrs.

WEATHER CHARTS

FOR Wednesday, 20th December 1899.

BAROMETER, WIND AND SEA.

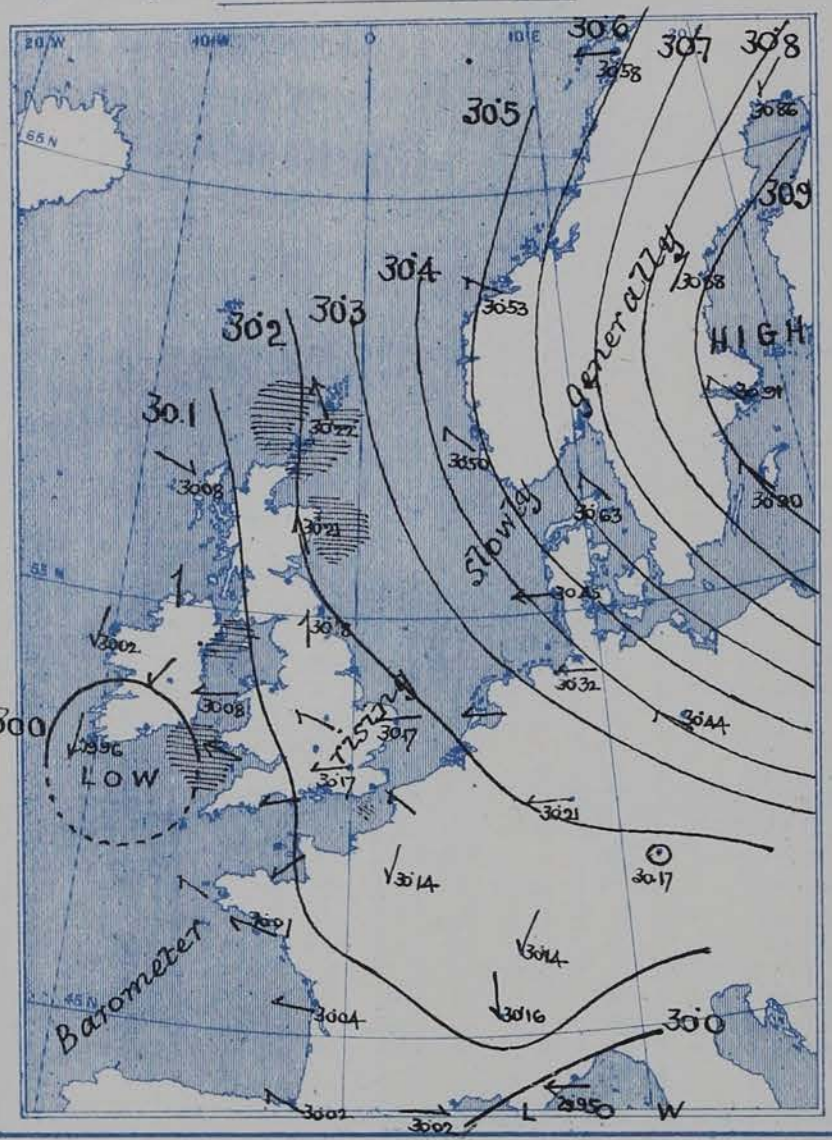
BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show 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* ▓

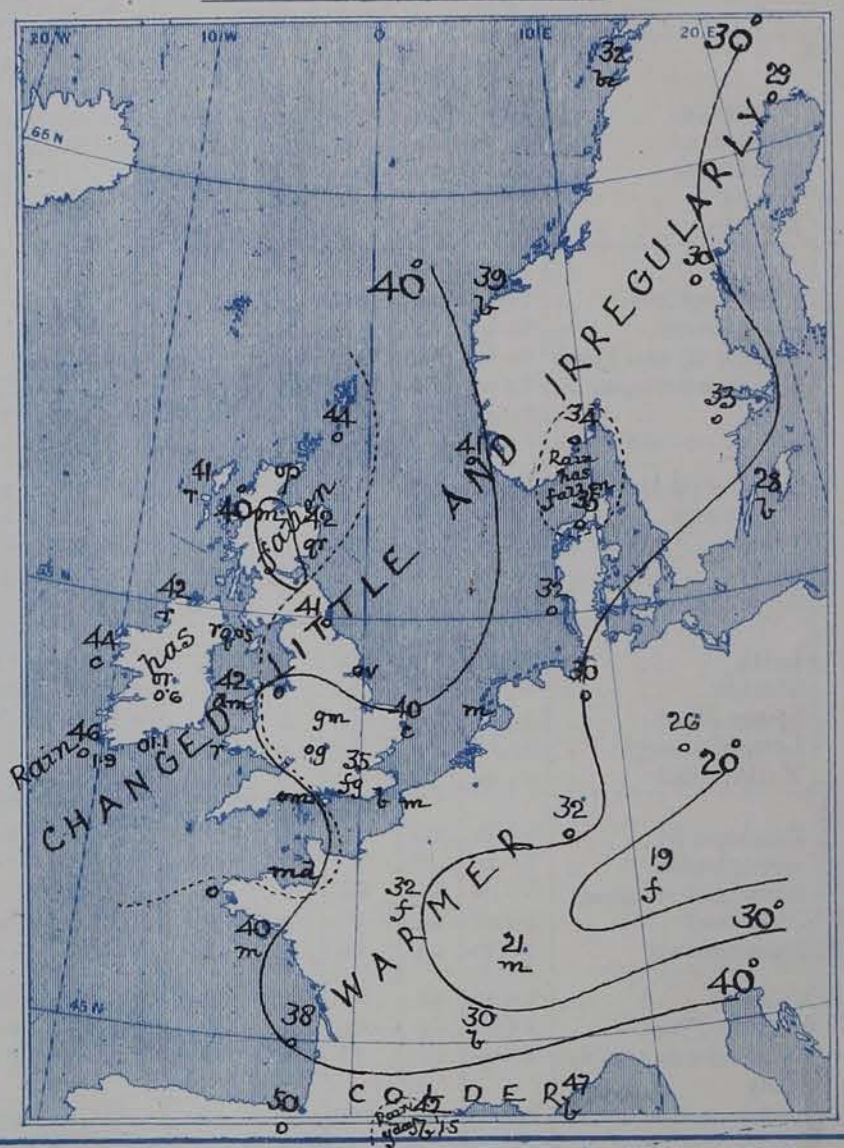


TEMPERATURE AND WEATHER.

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 Westminste.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·9 in: and more over the Baltic and exceeding 30·4 in: all over Scandinavia and the eastern shores of the North Sea.
Lowest, Below 30·0 in: in a shallow depression over the south of Ireland and also at Nice.
Gradients slight over our Islands, moderate elsewhere.
Barometer rising except at the mouth of St. George's Channel where a slight fall is in progress.

TEMPERATURE

Highest, 50° at Rochelle Pont and Biarritz and above 40° all over Ireland.
Lowest, (1) 28° at Wisby, 29° at Haparanda, 31° at Karlstad; (2) 19° at Munich, 21° at Belfort, 26° at Berlin, 25° at the Helder.
It has risen a little in the south and west of Germany since yesterday, fallen in Holland.

WIND

SE^ly to E^ly over nearly the whole of Europe, and moderate to light in force. In some parts of Ireland, however, it has shifted to NE. and is strong. [Reports from Sally are interrupted].

WEATHER

Fine and bright in some parts of Norway, and at Dungeness, dull generally elsewhere, with fog or haze in many parts of Gt. Britain, rain at many western and northern stations.
Rain has been heavy at Perpignan and over the southern half of Ireland, but comparatively slight over our other western districts and in the north. Bright Sunshine recorded yesterday ranged from 3 to 6 hrs on our southeast coasts. Elsewhere there was none.

SEA

Rough in the north, rather so in the west, slight to moderate in the east and south.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone over Russia, Scandinavia, and Germany is now of great size and intensity, while the depression over the southwest of Ireland is slight, and those which may possibly prevail over the Atlantic show no tendency to encroach on our western coasts.

FORECASTS

For the 24 hours ending at NOON on 21st DECEMBER, 1899.

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	Very Variable winds; dull, rainy at times, colder.
1	SCOTLAND EAST	
2	ENGLAND N.E.	SE^ly or E^ly winds, light or moderate; dull, foggy, damp.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	
6	SCOTLAND WEST	SE^ly to E^ly winds, moderate to fresh; dull, rainy, misty.
7	ENGLAND N.W.	
8	ENGLAND S.W.	
9	IRELAND NORTH	NE^ly winds, fresh; rainy, misty, colder.
10	IRELAND SOUTH	
	WARNINGS	NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Skudesnaes ...	30·36	41	38	S	4	o	2
Sumburgh Head	30·01	44	41	S	5	o	6
Stornoway... ...	29·79	46	45	SSW	7	r	7
Aberdeen	30·09	41	37	S	4	ogq	4
Shields	30·15	38	36	S	3	o	2
Malin Head ...	29·88	45	45	SW	4	r	3
Blacksod Pt.. ...	29·80	44	42	W	0	o	o
Holyhead	30·05	45	44	S	2	c	1
Valencia	29·84	49	48	SE	5	r	6
Scilly							
Jersey	30·07	40	38	ENE	1	o	1
Portland Bill ...	30·09	42	41	E	4	bcm	3
Dungeness ...	30·15	40	37	ESE	2	b	2
London (Westminster)	30·16	44	38	E	1	ogf	*
Yarmouth ...	30·18	39	37	ENE	3	c	3
Rochefort ...	29·96	41	39	E	2	o	*

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

Weather in morning fine and bright over the southern half of Russia, Poland, and the eastern parts of Germany, very dull over the North Sea, foggy or hazy over England, raining over Ireland. Heavy rain later at Perpignan and over the southern half of Ireland, much slighter falls in the north of Ireland and over Scotland.

Temperature very low over Russia. Morning readings highest 60° at Malta, 59° at Sanguinaire, 55° at Biarritz, 49° at Valencia, 48° at Rockall Point, and much above 40° on our western coasts generally. Lowest (1) -17° F. at Moscow, -3° at Kharkov, +7° at Kiew, 20° at St Petersburg; (2) 6° at Munich, 19° at Brussels, 22° at Paris; (3) above 32° over England. Rising later to between 50° and 45° at many of our western stations, but to only 39° in London, 32° at Paris, and 19° at Munich.

Wind (1) SE 3, light to moderate over the eastern and northern parts of Europe, more E 3 over France, and blowing strongly over the Riviera: light from between E. and S. over England, S 3 over the greater part of Scotland and Ireland, and blowing hard in a few places; NW 3 at Blacksod Point. Decreasing in force at our western and southern stations later.

Barometer in morning highest 31·28 ins: at Moscow and exceeding 31 inches over the greater part of Central Russia; exceeding 30·3 ins: all over Scandinavia and Eastern Germany. Lowest 29·8 ins: and less. over the north of Russia and off the west of Scotland, and about 29·9 ins: over the southwest of France. Little change over Western Europe later, but some indications shown of a shallow depression forming over the southwest of Ireland.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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

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

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„ Weekly „ „ £1 10 0 „

DAILY WEATHER REPORT

for 8 a.m. on Thursday, 21st 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.	Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°									Ins.
Scandinavia.	Haparanda	30·82	28	NE	2	o	30·79	-·07	26	26	- 3	SW	2	o	•	o	•	30	21	-
	Hernösand	30·92	27	SW	2	b	30·92	+·04	18	18	- 12	SW	2	b	•	b	•	32	?	-
	Stockholm	31·01	27	calm	0	b	31·01	+·10	23	23	- 10	SSE	2	b	•	b	•	33	?	-
	Wisby	30·97	25	SSE	4	b	30·99	+·09	25	23	- 3	SSE	4	b	•	b	•	30	23	-
	Karlstad	30·90	27	E	4	bc	30·93	+·13	17	17	- 14	NE	2	b	•	bc	•	•	•	-
	Bodö	30·67	27	E	4	b	30·67	+·09	28	25	- 4	E	4	c	1	b	•	32	23	-
	Christiansund ...	30·62	39	ESE	4	b	30·70	+·17	35	30	- 4	ESE	1	b	3	b	•	39	32	-
	Skudesnaes ...	30·58	37	SSE	4	b	30·70	+·20	31	27	- 10	SE	4	b	2	bc.b	•	41	31	•
	Færder (X'iania Fjord)	30·80	30	ESE	4	b	30·84	+·14	29	27	- 5	E	4	o	2	b	•	34	27	-
	The Scaw (Skagen)	30·72	31	SE	5	bc	30·75	+·12	30	29	- 5	SE	4	c	1	bc	•	36	28	-
	Fanö	30·54	28	E	6	c	30·52	+·09	25	24	- 7	E	6	b	•	c	•	32	23	-
British Islands.	Sumburgh Head ...	30·26	42	SE	5	o	30·41	+·19	41	39	- 3	SE	4	r	7	r. o	•	45	38	0·09
	Stornoway	30·13	41	calm	0	o	30·29	+·21	43	42	+ 2	calm	0	o	0	o	0·0	44	38	0·05
	Wick	30·19	43	S	5	r	30·34	+·17	42	42	- 1	S	5	r	6	r	•	45	40	0·20
	Nairn	30·20	37	calm	0	o	30·34	+·20	35	35	- 3	calm	0	o	2	o	•	40	32	0·22
	Aberdeen	30·25	41	SE	4	oqr	30·40	+·19	40	37	- 2	SE	4	oq	6	or q	0·0	43	39	0·52
	Leith	30·22	38	NW	1	o	30·35	+·17	39	38	0	calm	0	m	•	o	•	40	36	-
	Shields	30·23	41	SSW	1	om	30·32	+·14	41	41	0	E	3	op	3	o m. r	•	43	36	0·08
	Spurn Head ...	30·19	40	ESE	3	o	30·30	+·11	39	38	- 2	E	3	c	4	o	•	42	37	-
	Loughborough ...	30·22	36	E	2	o	30·32	+·12	35	35	+ 1	calm	0	ogf	•	gm. gf	•	38	34	-
	Malin Head ...	30·12	41	SSE	3	ogm	30·25	+·20	42	41	0	SE	3	ogm	3	or. gm	•	42	41	-
	Blacksod Pt. ...	30·10	45	NNE	3	cp	30·15	+·13	46	45	+ 2	ESE	4	r	3	cp	•	46	43	0·21
	Donaghadee ...	30·16	43	ESE	5	op	30·29	+·28	43	42	0	ESE	5	oq	5	op	•	44	42	0·05
	Liverpool (Bidston)	30·21	36	ESE	3	o	30·33	+·18	35	34	+ 1	E	1	o	?	om	•	37	33	-
	Holyhead	30·14	43	E	1	opa	30·24	+·16	38	37	- 4	ENE	2	om	1	r. opa	•	44	36	0·12
	Parsonstown ...	30·07	46	SE	1	o	30·17	+·17	44	42	+ 1	SE	1	o	•	oa	0·0	46	42	0·08
	Valencia	30·03	47	NNE	2	c	29·99	+·03	50	49	+ 4	ENE	4	rm	4	og. c	0·1	50	45	0·41
	Roche's Point ...	30·02	50	SE	3	o	30·10	+·17	50	50	0	SSE	7	r	5	m. r	•	51	48	0·65
	Pembroke (St. Ann's Hd.)	30·11	43	ESE	5	o	30·20	+·18	40	39	- 5	E	5	om	4	o	0·0	45	?	0·05
	Scilly																			
	Jersey (St. Aubin's) ...	30·11	45	SSE	1	om	30·23	+·12	43	41	- 1	ENE	1	om	1	o. om	•	45	41	0·01
France & Netherlands. Germany.	Portland Bill ...	30·13	41	ENE	4	om	30·25	+·17	39	38	- 4	ESE	4	o	4	om	•	43	35	0·04
	Dungeness	30·15	40	E	2	o	30·26	+·11	38	37	0	E	3	o	2	o	•	40	36	-
	London (Brixton) ...	30·20	39	E	1	om	30·32	+·15	37	35	+ 2	E	2	oq	•	ogf. o	0·0	40	34	‡0·01
	Oxford	30·23	37	E	1	o	30·32	+·14	36	35	+ 3	E	1	oq	•	o	•	38	33	-
	Yarmouth	30·18	39	NE	2	c	30·31	+·14	36	35	- 4	ENE	4	oq	4	o. c	•	41	34	-
	Cuxhaven	30·38	26	E	5	b	30·41	+·09	20	19	- 10	E	5	b	•	b	•	34	18	-
	Berlin	30·47	19	ESE	5	c	30·57	+·13	14	13	- 12	E	4	bc	•	c	•	28	14	-
	Wiesbaden	•	•	•	•	•	30·34	+·13	24	22	- 8	E	2	bc	•	•	•	32	21	-
	Munich	30·17	21	SE	3	s	30·25	+·08	20	20	+ 1	E	3	s	•	s	•	23	19	0·04
	The Helder ...																•			
	Brussels	•	•	•	•	•	30·33	+·12	21	21	+ 8	calm	0		•		•	?	12	-
	C. Gris Nez ...	30·15	28	E	2	m	?	?	28	28	0	E	1		1		•	36	27	-
	Paris	30·16	35	NE	1	f	30·25	+·11	33	32	+ 1	ENE	1		•		•	37	32	-
	Brest	30·07	45	ESE	1	c	30·13	+·12	46	45	+ 3	E	3	c	3		•	50	37	-
	Lorient	30·12	41	SE	1	c	30·18	+·11	41	40	+ 1	ESE	2	c	5	c	•	45	37	-
	Rochefort	30·08	40	SW	1	bc	30·12	+·08	38	37	0	E	2		•	c. bc	•	45	36	-
	Belfort	30·17	24	ENE	3	m	30·26	+·12	24	24	+ 3	calm	0		•	m	•	28	21	-
	Lyons	30·18	31	NW	1	m	30·26	+·10	31	31	+ 1	NW	1		•	m	•	34	29	-
	Nice	29·99	49	E	2	b	30·05	+·10	41	36	- 6	E	4	b	3	b	•	55	39	-
	Perpignan	30·06	51	NW	3	b	30·15	+·13	47	42	+ 5	W	2	b	•	b	•	58	39	-
	Biarritz	30·05	49	calm	0	b	30·09	+·07	41	39	- 9	ESE	3	c	3	b	•	57	39	-
Span. Pen.	Corunna																•			
	Lisbon	30·18	51	ENE	2	o	30·19	+·02	49	48	+ 7	ENE	3	o	•	o	•	55	42	-
	Azores (P. Delgada)	30·09	52	NNW	3	o	30·06	+·05	52	49	- 2	N	4	c	3	o	•	61	48	0·35

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

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

Bright Sunshine yesterday Southport 0·0 hrs.

WEATHER CHARTS

FOR Thursday, 21st December, 1899.

BAROMETER, WIND AND SEA.

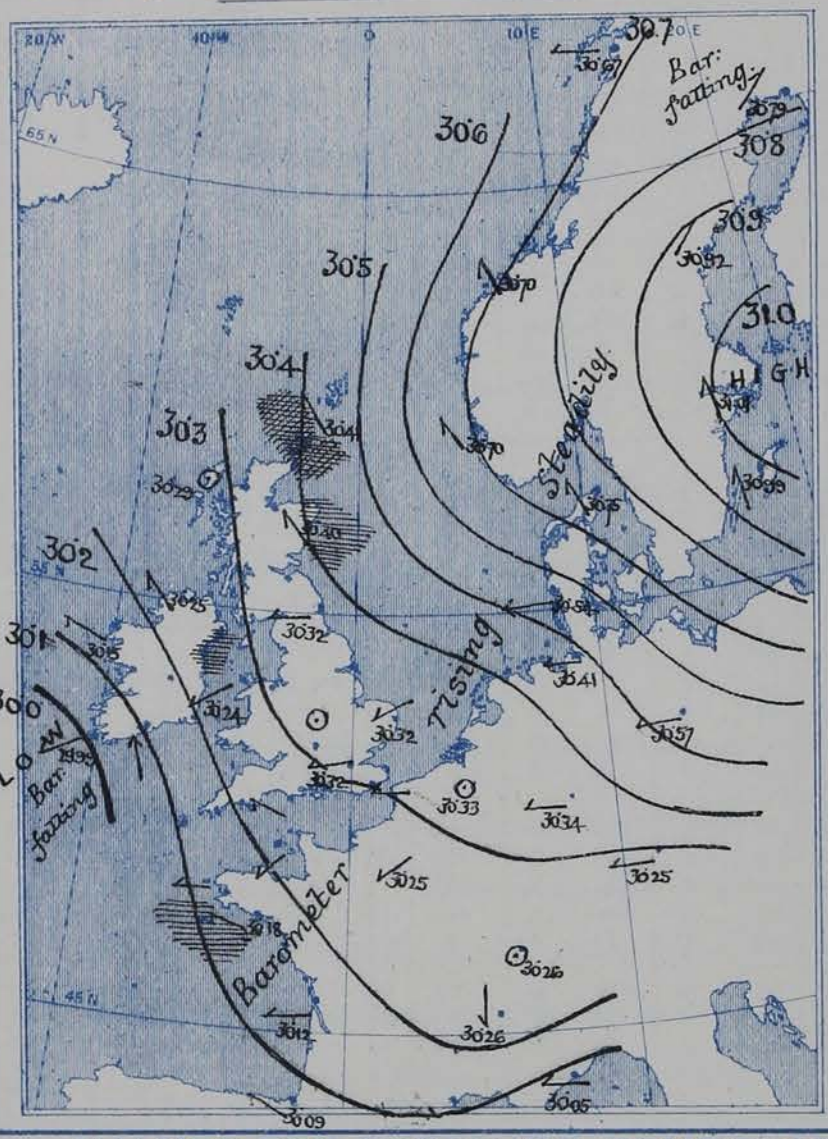
BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show 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* ▓

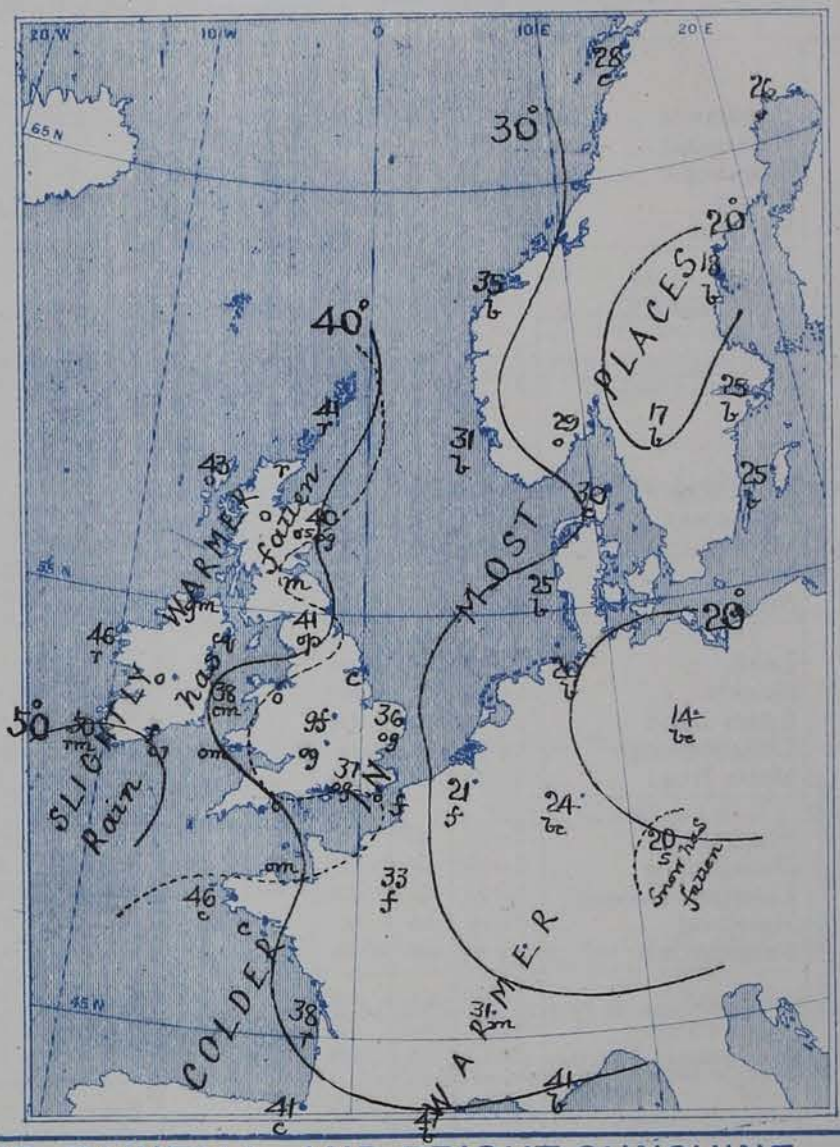


TEMPERATURE AND WEATHER.

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.	TEMPERATURE OF AIR, 1871–95.								RAINFALL	BRIGHT SUNSHINE, Means, 1881—95.	
		Means of				Absolute Extremes.						
	Means, 1871–95.	Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum.	Years.	Minimum.	Years.	Means, 1866—95.	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, 31·01 in: and Stockholm and exceeding 30·7 in: over the whole of Scandinavia and Denmark.
Lowest, (1) 29·9 in: at Valencia, and (2) 30·05 in: over the Riviera.
Gradients moderate over the eastern shires of the North Sea, slight elsewhere.
Barometer falling a little both in Lapland and at Valencia (Ireland), rising elsewhere.

TEMPERATURE

Highest, 50° in the south of Ireland, 46° at Blackhead Point and also at Bute.
Lowest, (1) 17° at Karlstad, 18° at Hernösand, 23° at Stockholm; (2) 16° at Berlin, 20° at Cuxhaven and Munich, 21° at Brussels; (3) about 35° over Central England.
Maxima exceeding 40° were recorded all over our Islands yesterday, and on the south coast of Ireland exceeded 50°.

WIND

E. and SE. over our Islands generally and France, blowing very strongly at the mouth of the St. George's Channel.
In Scotland it is more S.

WEATHER

Very fine and bright in Sweden and Norway, and fine in North Germany, dull and gloomy over our Islands and France, foggy in several places, raining in the south of Ireland.
Rainfall has been considerable both in the south of Ireland and the east of Scotland.
The only Bright Sunshine recorded at any of our stations yesterday was 0·1 hour at Valencia.

SEA

High in the north, rather rough in the east, moderate in exposed places elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

No great change of weather is indicated.

FORECASTS

For the 24 hours ending at NOON on 22ND DECEMBER, 1899.

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	SE. winds, light to moderate; some rain.
1	SCOTLAND EAST	SE. winds, strong; squally, showery.
2	ENGLAND N.E.	E. winds, light or moderate; fair, foggy at times.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	
6	SCOTLAND WEST	SE. winds, moderate or fresh; rather cold, hazy.
7	ENGLAND N.W.	
8	ENGLAND S.W.	SE. winds, strong; rainy.
9	IRELAND NORTH	Same as Nos 6 and 7.
10	IRELAND SOUTH	SE. to NE. winds, strong to moderate; rainy.
	WARNINGS	NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Skudesnaes ...	30·56	41	36	ESE	4	bc	2
Sumburgh Head	30·26	43	42	SSE	5	r	7
Stornoway... ...	30·09	44	42	W	2	o	2
Aberdeen	30·22	42	40	SE	5	oq	6
Shields	30·21	41	39	SSW	2	o m	2
Malin Head ...	30·08	42	42	SE	3	o	3
Blacksod Pt.. ...	30·05	46	45	NNE	4	c p	3
Holyhead	30·12	44	43	E	1	r	1
Valencia	30·00	47	45	N	4	o q	4
Scilly							
Jersey	30·13	45	43	ESE	1	o	1
Portland Bill ...	30·10	41	40	E	4	o m	3
Dungeness ...	30·14	38	37	ESE	2	o	1
London (Westminster)	30·16	40	39	E	2	o q m	*
Yarmouth ...	30·15	40	38	NE	4	o	4
Rochefort ...	30·06	44	43	ESE	2	c	*

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

Weather in morning fine and bright over several parts of northern and Eastern Europe, as well as over Spain and the southern parts of France, foggy and gloomy over the north of France and East of England, raining more or less at our western and northern stations. Considerable rain later in the south of Ireland and East of Scotland, and smaller quantities on our western and northern stations. Very fine over Scandinavia, Denmark, and the south of France.

Temperature fallen over Central Europe, little changed in our Islands. Morning readings highest 57° at Nemours, 54° at Lanjuinais, 50° at Palermo, Biarritz, and Rochefort, and 46° to 44° on our southwest coasts generally. Lowest −6° F to −3° over the southern parts of central Russia, +12° at St Petersburg and Warsaw, 14° at Hermanstadt, 19° at Berlin, 20° at Vienna and at Brussels, 32° at Paris, 34° at Loughborough. Rising later to 51° in the south of Ireland and to more than 40° nearly all our our Islands, and to 58° at Perpignan.

Wind (1) anticyclonic SE³, over Central Europe and the Baltic, SW¹ at several northern stations and moderate in force; (2) S³ to E³ over Great Britain, NE² in the west of Ireland; (3) Separate cyclonic circulation prevailing over the Mediterranean, and light NW¹ to N³ winds over Spain.

Barometer highest 31·2 ins: to 31·0 ins: over Russia and exceeding 30·5 ins: over the whole of northern, central and southeastern Europe. Lowest 29·8 ins: and less. in a shallow depression over the southern part of the Mediterranean (between Cagliari and Tunis); (2) 30·0 ins: and less. in a very shallow disturbance over the south of Ireland. Gradient rather steep over the Eastern shores of the Adriatic. Barometer rising over the United Kingdom and neighbouring countries later.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT

for 8 a.m. on Friday, 22nd 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	30·73	25	N	0	0	30·76	−·03	25	?	− 1	N	0	0	•	0	•	30	25	−
	Hernösand	30·92	11	N	0	b	30·88	−·04	9	9	− 9	N	0	b	•	b	•	27	5	−
	Stockholm	31·00	21	N	0	b	31·07	+·06	12	12	− 11	N	0	fg	•	fg	•	28	?	−
	Wisby	30·99	23	SSE	4	b	30·94	−·05	21	20	− 4	SE	4	fg	•	fg	•	30	19	−
	Karlstad	30·95	19	NNE	2	b	30·94	+·01	8	7	− 9	NNE	2	b	•	b	•	•	•	−
	Bodö	30·72	32	E	2	0	30·67	·00	31	28	+ 3	E	2	c	1	0	•	32	25	−
	Christiansund ...	30·75	30	ESE	2	b	30·69	−·01	27	24	− 8	ESE	3	b	3	b	•	35	25	−
	Skudesnaes ...	30·75	30	E	2	b	30·63	−·07	32	28	+ 1	ESE	4	c	3	b	•	34	30	•
	Færder (X'iania Fjord)	30·87	27	E	4	b	30·84	·00	29	27	0	ESE	3	b	3	b	•	29	25	−
	The Scaw (Skagen)	30·79	31	SE	5	b	30·75	·00	32	31	+ 2	SE	6	b	2	b	•	32	30	−
	Fanö	30·61	24	E	5	b	30·55	+·01	23	22	− 2	E	5	c	•	b	•	27	23	−
British Islands.	Sumburgh Head ...	30·49	39	SE	4	0	30·38	−·03	39	35	− 2	SE	5	0	7	0	•	42	36	−
	Stornoway	30·33	41	N	0	0	30·22	−·07	40	39	− 3	SSE	4	r	4	0	0·0	43	37	0·10
	Wick	30·42	43	S	6	0	30·30	−·04	38	37	− 4	S	6	orsp	6	0	•	45	35	0·10
	Nairn	30·40	38	N	0	0	30·29	−·05	34	33	− 1	N	0	m	1	0	•	39	32	−
	Aberdeen	30·46	38	SE	4	·09	30·29	−·11	35	34	− 5	ESE	3	orsh	6	qqp·09	0·0	41	34	·09
	Leith	30·38	39	SSW	1	0	30·26	−·09	35	34	− 4	E	1	r	•	0	•	43	32	0·08
	Shields	30·38	41	E	2	opa	30·26	−·06	37	37	− 4	SSW	2	rs	3	opa	•	42	35	0·10
	Spurn Head ...	30·36	38	E	3	0	30·26	−·04	37	36	− 2	SSE	3	0	3	0	•	41	35	−
	Loughborough ...	30·38	36	ESE	2	0	30·26	−·06	34	33	− 1	ESE	2	0 gm	•	gf. gm	•	37	33	−
	Malin Head ...	30·29	41	SE	3	0 gm	30·19	−·06	38	37	− 4	SE	2	0 gm	2	0 gm	•	42	37	−
	Blacksod Pt. ...	30·20	44	ESE	4	r	30·10	−·05	42	40	− 4	ESE	4	c	3	r	•	46	39	0·38
	Donaghadee ...	30·33	44	ESE	4	0q	30·20	−·09	40	40	− 3	SE	5	rq	5	0 q	•	44	38	0·06
	Liverpool (Bidston)	30·34	37	E	2	0	30·21	−·12	34	33	− 1	E	3	0	?	0m	•	38	34	−
	Holyhead	30·26	39	ESE	2	0	30·15	−·09	38	36	0	SE	1	fg	1	0	•	40	36	−
	Parsonstown ...	30·19	42	SE	1	r	30·11	−·06	40	39	− 4	E	1	c	•	0 r	0·0	45	39	0·49
	Valencia	29·98	52	E	3	op	29·97	−·02	49	47	− 1	NE	3	0	4	0	0·0	53	48	0·52
	Roche's Point ...	30·07	50	SSE	8	r	30·01	−·09	49	48	− 1	SE	8	0	5	r	•	51	47	1·50
	Pembroke (St. Ann's Hd.)	30·22	40	E	6	0	30·10	−·10	42	41	+ 2	E	5	rm	4	0	0·0	44	37	0·07
	Scilly																			
	Jersey (St. Aubin's) ...	30·24	40	ENE	2	c	30·18	−·05	42	40	− 1	SE	3	rm	3	bc. om	•	45	31	0·03
	Portland Bill ...	30·28	39	ENE	3	0	30·14	−·11	44	43	+ 5	SE	4	or	4	0	•	44	38	0·01
	Dungeness	30·33	36	E	2	0	30·28	+·02	35	34	− 3	SE	3	0	1	0	•	38	33	−
	London (Brixton) ...	30·34	37	ENE	2	0 gm	30·28	−·04	33	33	− 4	ESE	2	0 gm2	•	0 gf. gm2	0·0	39	33	0·01
	Oxford	30·34	36	E	2	0	30·25	−·07	33	33	− 3	E	2	0 gdp	•	0 gdp	•	37	33	0·02
	Yarmouth	30·34	36	ENE	3	c	30·29	−·02	34	33	− 2	ESE	4	0 g	4	c.0	•	38	31	−
France & Netherlands. Germany.	Cuxhaven	30·47	21	E	5	b	30·49	+·08	17	17	− 3	SE	5	b	•	b	•	23	14	−
	Berlin	30·62	17	E	4	b	30·67	+·10	10	9	− 4	E	4	b	•	b	•	19	9	−
	Wiesbaden	•	•	•	•	•	30·44	+·10	23	22	− 1	ENE	2	b	•	•	•	28	21	−
	Munich	30·35	16	E	2	bc	30·39	+·14	5	5	− 15	NE	4	b	•	bc	•	23	5	0·08
	The Helder ...	30·39	21	E	1	0	30·38		23	23		ESE	1	0	1	0	•	23	19	−
	Brussels	•	•	•	•	•	30·36	+·03	23	23	+ 2	ESE	1	fg	•	fg	•	27	20	−
	C. Gris Nez ...	30·25	?	E	1	m	30·25	?	26	25	− 2	SE	2	m	?	m	•	41	?	−
	Paris	30·34	34	E	1	fg	30·30	+·05	26	?	− 7	E	2	fg	•	fg	•	36	26	−
	Brest	30·14	46	ESE	3	c	30·09	−·10	46	45	0	ESE	4	fg	3	c	•	46	41	−
	Lorient	30·18	42	SE	4	0	30·11	−·07	40	39	− 1	SE	5	r	5	0	•	46	39	0·16
	Rochefort	30·17	41	E	1	b	30·12	·00	36	34	− 2	ESE	2	0	•	0, b	•	45	34	−
	Belfort	30·36	22	ENE	3	fg	30·36	+·10	19	19	− 5	ENE	3	fg	•	fg	•	27	18	−
	Lyons	30·29	36	N	1	b	30·34	+·08	24	24	− 7	WNW	1	fg	•	b	•	39	21	−
	Nice	30·12	46	W	0	b	30·22	+·17	41	39	0	W	0	0	2	b	•	54	41	−
	Perpignan														•		•			
	Biarritz	30·08	48	E	3	b	30·05	−·04	39	37	− 2	SE	4	0	2	b	•	54	37	−
Span. Pen.	Corunna																•			
	Lisbon	30·17	59	SE	3	bc	30·16	−·03	48	45	− 1	ENE	4	0	•	bc	•	59	48	−
	Azores (P. Delgada)	30·07	56	NE	5	c	30·06	·00	55	50	+ 3	NNE	5	bc	6	c	•	57	52	024

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 recorded on the Tower of the Wesleyan Training College, Westminster*

Bright Sunshine yesterday Southport 0·0 hrs.

WEATHER CHARTS

FOR Friday, 22ND December, 1899.

BAROMETER, WIND AND SEA.

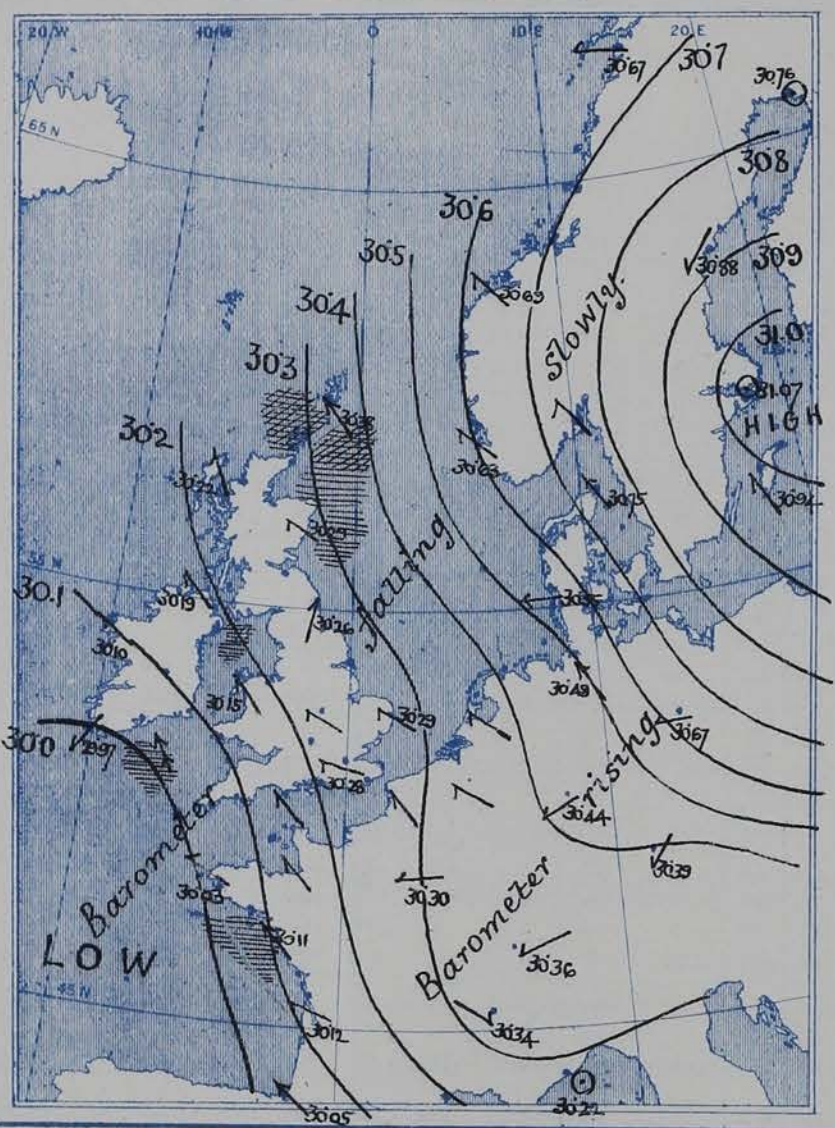
BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show 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* ▓

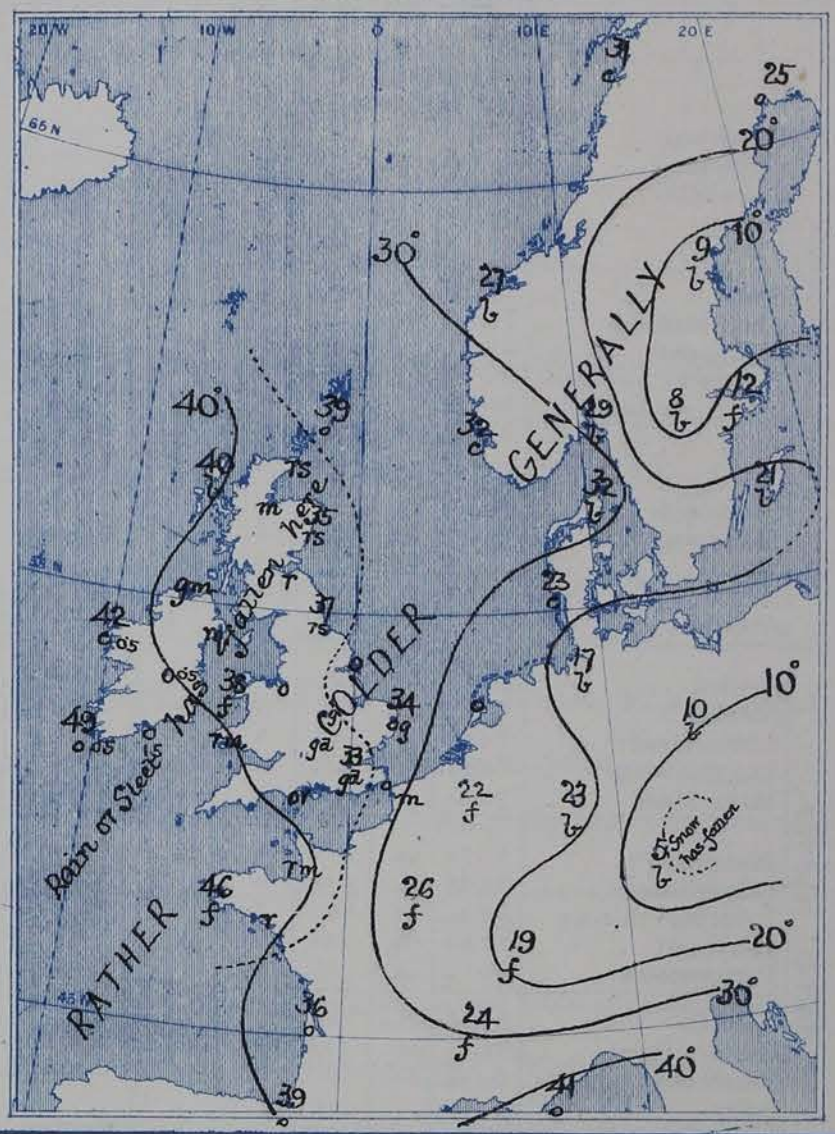


TEMPERATURE AND WEATHER.

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, 31·07 ins: at Stockholm and exceeding 30·6 ins: all over Scandinavia and Denmark.
Lowest, Below 30·0 ins: in the southwest of Ireland.
Gradients slight to moderate.
Barometer rising over Germany and the Baltic, falling irregularly almost everywhere else.

TEMPERATURE

Highest, 49° in the south of Ireland, 44° to 42° on the southwest coasts of England, 40° at Lorient.
Lowest, (1) 8° at Karlstad, 9° at Hernösand, 12° at Stockholm, 21° at Visby; (2) 5° at Munich, 10° at Berlin, 23° at the Helder, 26° at Paris.
The maxima recorded yesterday exceeded 50° in the south of Ireland and exceeded 40° over Great Britain generally.

WIND

SE over almost the whole of our Islands and their neighbourhood, and moderate in force; in Scotland, however, it is more S and stronger, and in the southeast of Ireland a gale is recorded from SE., while at Valencia there is a moderate wind from NE.

WEATHER

Exceedingly dull and gloomy over our Islands, with mist and drizzle in many places. Over Scandinavia, the Baltic, and North Germany the sky is clear. Heavy rain has again fallen in the south of Ireland.
Bright Sunshine. None is recorded at any station.

SEA

High in the north, rather rough in the southwest, moderate elsewhere, as a whole.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There is no decided indication of change at present.

FORECASTS

For the 24 hours ending at NOON on 23RD DECR 1899.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	E to S winds, very strong in the east of Ireland and northeast of Scotland; dull, cold, rain at times.	6 SCOTLAND WEST	E to S winds, very strong in the east of Ireland and northeast of Scotland; dull, cold, rain at times.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST		9 IRELAND NORTH	
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Skudesnaes ...	30·72	33	29	SE	4	b	2
Sumburgh Head	30·46	40	38	SE	4	o	1
Stornoway... ...	30·32	43	42	N	0	o	0
Aberdeen	30·43	89	37	SE	4	o g qp	6
Shields	30·38	41	40	E	2	o p 2	3
Malin Head ...	30·28	41	40	SE	3	o	3
Blacksod Pt.. ...	30·17	45	44	ESE	4	r	3
Holyhead	30·27	40	38	ESE	1	o	1
Valencia	29·96	60	48	E	6	gr	6
Scilly							
Jersey	30·25	44	42	NE	2	bc	2
Portland Bill ...	30·28	38	37	ENE	3	om	3
Dungeness ...	30·30	86	36	E	3	o	2
London (Westminster)	30·32	40	38	ENE	2	ogf	*
Yarmouth ...	30·38	35	34	ENE	4	c	4
Rochefort ...	30·15	44	42	NE	1	o	*

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

Weather in morning fine and bright over Scandinavia, the Baltic, western Russia, eastern Germany, and Austria, also over some parts of southern Europe; very dull, foggy, and gloomy over Great Britain and France, raining in Ireland and Scotland. Much rain in the southeast and south of Ireland later; remaining fine over northern and southwestern Europe.

Temperature rising over Russia, falling over Sweden and Central Europe. Morning readings highest (1) 56° to 57° in the north of Africa, 50° at Cagliari; (2) 50° at Valencia and Roche's Point, 46° at Berk and Blacksod Point, 43° at Stornoway. Lowest (1) 17° at Karlstad, 18° at Haparanda, 16° at St Petersburg, 13° at Moscow; (2) 0° F to 6° in the south of Russia, 8° at Breslau, 20° at Munich, 33° at Paris, 37° in London. Rising during day to upwards of 40° all over the British Islands and to between 53° and 50° on the south coast of Ireland. Exceeding 50° also in the south of France.

Wind (1) SE' to E' over the northern half of Europe (but NE' at Valencia) and blowing very strongly at Roche's Point; (2) E' to N' over the southern countries and the Mediterranean, W' at Tunis. Nothing but local changes later – the wind at Roche's Point rising to a gale.

Barometer in morning highest (1) 31·13 ins: at Riga, and exceeding 30·6 ins: in an anticyclone covering northern Eastern and southeastern Europe; (2) 30·3 ins: to 30·1 ins: in a separate anticyclone over the Iberian Peninsula. Lowest (1) 30·0 ins: to 29·9 ins: in a depression over the Mediterranean (central area between Cagliari and Sicily); (2) Below 30·0 ins: in the southwest of Ireland. Changes very undecided later.

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.

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

N —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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for 8 a.m. on Saturday, 23rd December, 1899.

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	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Baron. At 32° and M.S.L.	Temp. Dry Bulb	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°									Ins.
Scandinavia.	Haparanda	30·71	22	N	0	0	30·63	-·13	11	11	-14	S	2	0	*	0	*	28	?	-
	Hernösand	30·77	-11	N	0	b	30·73	-·15	-8	-8	-17	N	0	b	*	b	*	10	-13	-
	Stockholm	30·83	21	N	0	0	30·71	-·16	27	26	+15	SE	2	0	*	0	*	27	7	-
	Wisby	30·79	27	E	4	b	30·71	-·23	28	22	+2	SE	4	0	*	b	*	28	18	-
	Karlstad	30·78	19	NE	2	0	30·63	-·31	24	23	+16	NE	2	0	*	0	*	*	*	-
	Bodö	30·46	28	E	4	b	30·32	-·35	23	20	-8	E	4	b	1	b	*	31	21	-
	Christiansund ...	30·44	30	ESE	5	b	30·31	-·38	34	32	+7	ESE	3	c	4	b	*	34	27	-
	Skudesnaes ...	30·41	36	SE	6	0	30·29	-·34	36	32	+4	SE	6	c	5	0	*	36	30	*
	Færder (X'iania Fjord)	30·69	28	ESE	4	b	30·56	-·28	27	25	-2	ESE	4	0	2	b	*	29	25	-
	The Scaw (Skagen)	30·61	32	SSE	5	0	30·49	-·26	31	31	-1	SSE	5	0	1	0	*	32	30	-
	Fanö	30·41	25	E	6	c	30·29	-·26	26	25	+3	E	6	c	*	c	*	27	23	-
British Islands.	Sumburgh Head ...	30·11	38	SE	4	ops	29·93	-·45	40	39	+1	SE	4	r	7	o.sp	*	41	36	0·11
	Stornoway	30·00	36	N	0	0	29·80	+·42	42	40	+2	SW	4	0	4	0	0·0	42	34	0·05
	Wick	30·07	38	S	4	0	29·93	-·37	38	36	0	S	3	bc	5	0	*	39	39	0·08
	Nairn	30·08	30	N	0	b	29·93	-·36	29	28	-5	N	0	c	1	b	*	37	22	0·01
	Aberdeen	30·09	33	SSE	2	os	30·00	-·29	29	28	-6	W	2	bcm	4	ogrs.s	0·0	36	28	0·30
	Leith	30·08	35	E	2	r	30·01	-·25	30	29	-5	N	0	m	*	r	*	36	28	0·08
	Shields	30·08	37	S	1	rsp	30·05	-·21	29	29	-8	SW	2	fq	2	rsp	*	38	28	0·28
	Spurn Head ...	30·09	35	SSE	4	s	30·05	-·21	36	36	-1	WNW	3	m	3	rs.f	*	40	34	0·23
	Loughborough ...	30·09	34	ESE	1	r	30·07	-·19	35	35	+1	N	0	qf	*	qmsdf	*	36	33	0·11
	Malin Head ...	30·03	37	SE	1	bcm	29·86	-·33	42	41	+4	SSW	4	c	3	bcm	*	42	35	-
	Blacksod Pt. ...	30·01	42	SSW	2	bc	29·88	-·22	48	46	+6	SSW	5	bc	4	c.bc	*	48	40	-
	Donaghadee ...	30·07	41	E	4	0	29·99	-·21	43	43	+3	SSE	3	omr	3	0	*	43	39	0·01
	Liverpool (Bidston)	30·05	34	ESE	2	r	30·07	-·14	34	33	0	ESE	1	m	?	rs	*	35	33	0·10
	Holyhead	30·03	40	N	0	omqd	30·03	-·12	39	38	+1	S	1	c	1	or..apm	*	40	38	0·06
	Parsonstown ...	30·01	42	E	1	0	29·97	-·14	44	43	+4	S	1	0	*	0	0·0	44	39	0·03
	Valencia	29·96	48	N	0	c	30·02	+·05	47	45	-2	SSW	2	c	4	0.c	0·2	51	41	0·04
	Roche's Point ...	29·93	48	ESE	5	r	30·03	+·02	49	48	0	NSW	2	c	4	rm	*	50	45	0·25
	Pembroke (St. Ann's Hd.)	30·00	43	E	3	0	30·05	-·05	42	41	0	ENE	2	c	2	0	0·0	43	40	0·02
	Scilly																			
	Jersey (St. Aubin's) ...	30·03	40	SE	4	rm	30·03	-·15	42	41	0	N	0	orm	0	omr	*	43	39	0·39
France & Netherlands Germany.	Portland Bill ...	30·02	43	SSE	4	0	30·04	-·10	40	40	-4	NE	3	om	3	0	*	44	38	0·26
	Dungeness	30·16	38	SSW	3	0	30·03	-·25	39	38	+4	ENE	2	0	2	0	*	39	33	-
	London (Brixton) ...	30·11	35	ESE	2	om	30·07	-·21	36	35	+3	ESE	1	ogf	*	gfrs.omq	0·0	36	33	0·06
	Oxford	30·08	36	SE	2	0	30·07	-·18	36	35	+3	NNE	1	0	*	os.a	*	37	33	0·03
	Yarmouth	30·14	37	SSE	4	0	30·06	-·23	38	37	+4	NW	1	bcf	4	og	*	38	31	-
	Cuxhaven	30·40	19	SE	5	b	30·20	-·29	20	19	+3	SE	4	0	*	b	*	23	16	-
	Berlin	30·54	15	E	4	b	30·39	-·28	12	11	+2	E	4	b	*	b	*	18	10	-
	Wiesbaden	*	*	*	*	*	30·20	-·24	23	21	0	ENE	2	0	*	*	*	27	21	-
	Munich	30·25	4	SE	4	b	30·21	-·18	9	9	+4	SE	2	bc	*	b	*	12	3	-
	The Helder ...																*			
	Brussels	*	*	*	*	*	30·11	-·25	22	21	-1	ESE	2	c	*	0	*	27	19	-
	C. Gris Nez ...	30·12	30	SE	1	m	29·96	-·29	31	31	+5	SE	1	m	1	m	*	34	26	-
	Paris	30·18	30	SE	2	fq	30·02	-·28	34	34	+8	SE	2	m	*	fq	*	34	26	-
	Brest	29·93	46	SE	3	fq	29·99	-·04	49	48	+3	NNW	1	0	3	fq	*	49	39	0·08
	Lorient	29·98	41	SE	5	r	30·02	-·09	41	41	+1	N	2	0	4	r	*	43	39	0·63
	Rochefort	30·04	40	SE	3	0	29·95	-·17	50	47	+14	NSW	3	r	*	0	*	?	36	0·39
	Belfort	30·28	24	ENE	4	fq	30·17	-·19	27	27	+8	NNE	2	q	*	fq	*	27	19	-
	Lyons	30·28	27	NNE	1	c	30·18	-·16	41	40	+17	SSW	2	0	*	fq	*	41	24	-
	Nice	30·28	40	SW	1	c	30·27	+·05	40	37	-1	N	0	0	3	c	*	46	39	-
	Perpignan	30·23	46	N	0	0	30·21		42	41		W	2	c	*	0	*	49	41	-
	Biarritz	30·04	50	E	2	0	30·10	+·05	51	46	+12	SSW	4	c	2	0	*	55	39	-
Span. Pen.	Corunna																*			
	Lisbon	30·21	50	NNE	4	0	30·27	+·11	48	44	0	NNE	5	c	*	0	*	54	48	-
	Azores (P. Delgada)	30·02	57	NNE	7	bc	29·99	-·07	58	55	+3	NE	6	bc	5	bc	*	57	54	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 recorded on the Tower of the Wesleyan Training College, Westminster*

Bright Sunshine yesterday Southport 0·0 hrs.

WEATHER CHARTS

FOR Saturday, 23rd December, 1899.

BAROMETER, WIND AND SEA.

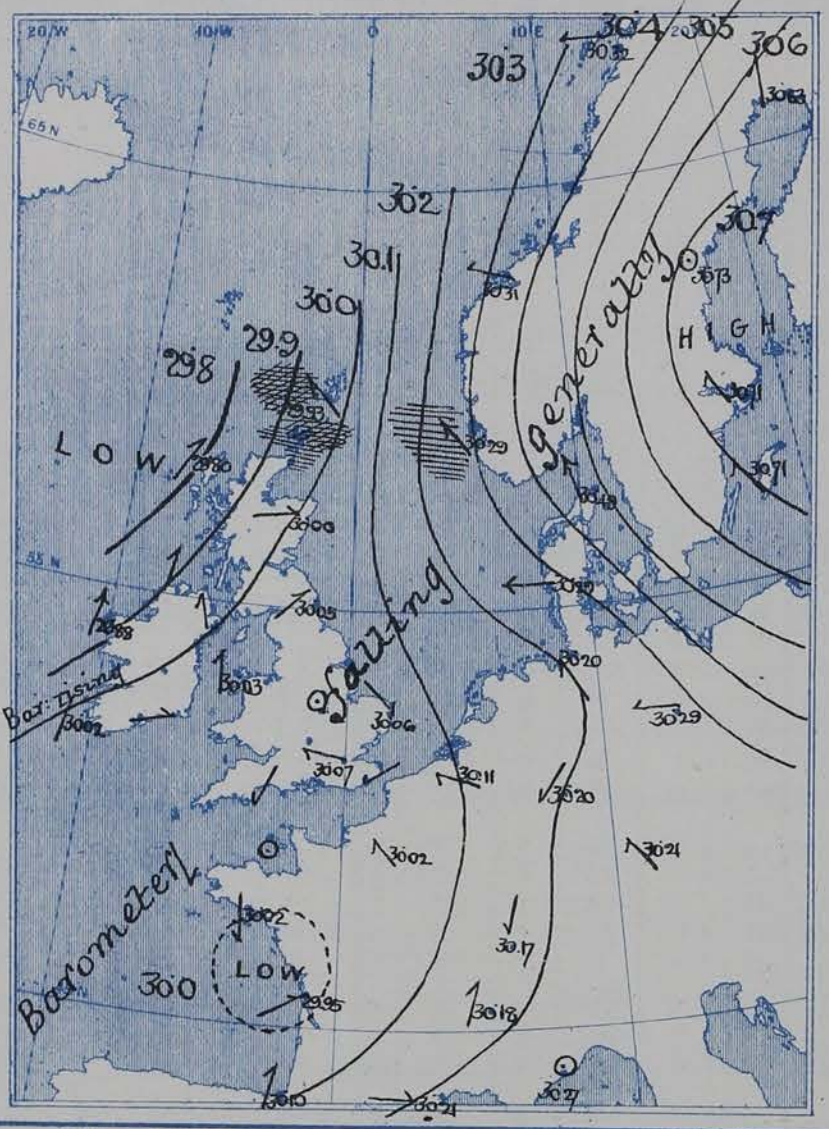
BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show 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* ▩

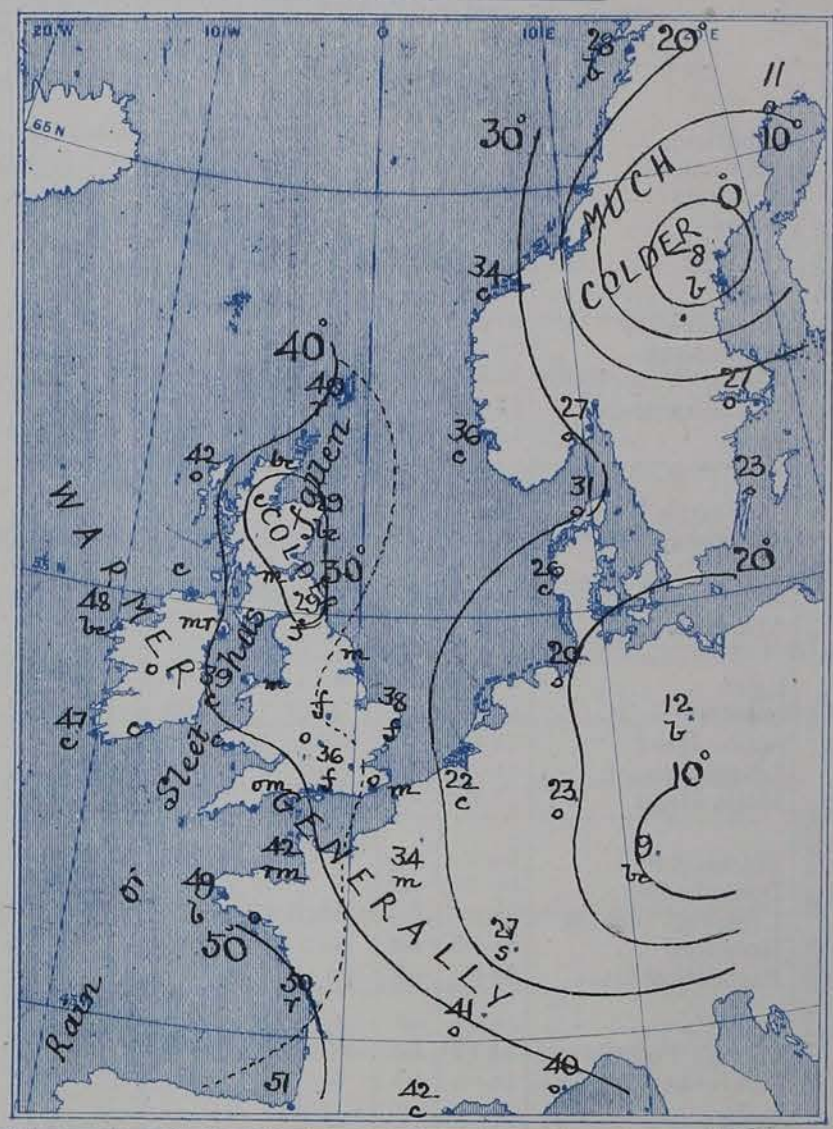


TEMPERATURE AND WEATHER.

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 Westminste.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·7 in: and more over Sweden, and exceeding 30·2 in: over Germany and all the eastern shores of the North Sea.
Lowest, 29·8 in: at Stornoway, and 30·0 in: and less, in a shallow depression over France.
Gradients for SW. winds increasing over Ireland and Scotland.
Barometer falling in most places, but rising at Valencia.

TEMPERATURE

Highest, 51° at Biarritz, 49° at Brest and Rochebonne, 48° at Blackrod Point, 47° at Valencia.
Lowest, (1) −8° F. at Hernosand, +11° at Haparanda, 24° at Karlstad; (2) 9° at Munich, 12° at Berlin, 22° at Brussels.
Considerable frost prevails over Scotland and the north of England early this morning, and hard frost over Germany and the east of France.

WIND

(1) Mainly SE. and E., strong, on the eastern shores of the North Sea: (2) light from E. and NE. in the Channel and south of England; (3) fresh and increasing from S. and SW. in Ireland and Scotland. The latter wind seems to be spreading eastwards.

WEATHER

Fair over Sweden, Norway, and Germany, but not so settled as of late; rather unsettled over France; dull over England, and foggy in places, fair in Ireland and Scotland.
Rain or ---ow has fallen in almost all parts of our Islands – amount not large.
Bright Sunshine recorded yesterday. – 0·2 hr at Valencia, none elsewhere.

SEA

High in the far north, moderate to slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The southwesterly current in the west is not advancing over England at present: where cold NE. airs are still probable.

FORECASTS

For the 24 hours ending at NOON on 24TH DECEMBER, 1899.

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	SW. to W. winds; milder temporarily with rain.
1	SCOTLAND EAST	S. and SW. winds, light; some showers.
2	ENGLAND N.E.	
3	ENGLAND EAST	Variable airs, rather cold and changeable.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	
6	SCOTLAND WEST	Same as No 0
7	ENGLAND N.W.	
8	ENGLAND S.W.	NE. to NW. winds, light; fair.
9	IRELAND NORTH	Same as No 0
10	IRELAND SOUTH	SW. winds, moderate; fair.
	WARNINGS	NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.		WEA.	SEA.
		Dry.	Wet.	Direc.	Force.		
Skudesnaes ...	30·51	36	34	SE	6	c	4
Sumburgh Head	30·21	36	35	SE	4	c	7
Stornoway... ...	30·11	40	39	N	2	c	2
Aberdeen	30·17	34	33	SE	1	ogrs	6
Shields	30·15	36	36	S	1	fs	3
Malin Head ...	30·08	37	36	SE	2	bc	2
Blacksod Pt... ...	30·04	44	42	SSE	1	c	2
Holyhead	30·06	39	38	SE	1	r	0
Valencia	29·94	51	49	ENE	3	o	4
Scilly							
Jersey	30·10	42	40	ESE	5	o	4
Portland Bill ...	30·09	44	43	SSE	4	o	4
Dungeness ...	30·17	38	37	S	2	o	3
London (Westminster)	30·16	36	35	ESE	2	ofs	*
Yarmouth ...	30·18	36	35	SSE	4	o	4
Rochefort ...	30·09	39	37	ESE	1	r	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Continental Information not received.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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

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

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" Weekly " " £1 10 0 " .

DAILY WEATHER REPORT

for 8 a.m. on Sunday 24th 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.	Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Change since Yesterday.	Temperature. Dry Bulb.	Wet Bulb.	Change since Yesterday.	Wind. Direc.	Force (0 to 12.)	Weather	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max	Temp. Min	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°									Ins.
Scandinavia	Haparanda	30·58	19	NNE	2	b	30·45	−·18	23	22	+12	L	0	o	•	b	•	23	10	—
	Hernösand	30·57	23	S	2	o	30·47	−·26	21	20	+29	SW	2	o	•	o	•	23	−13	—
	Stockholm	30·59	27	L	0	o	30·46	−·25	25	24	−2	SSE	2	o	•	o	•	28	19	—
	Wisby	30·58	22	ESE	4	o	30·42	−·29	23	22	0	SE	4	o	•	o	•	23	18	—
	Karlstad	30·52	24	E	2	o	30·39	−·24	23	22	−1	E	4	o	•	o	•	•	•	—
	Bodö	30·28	25	E	4	b	30·17	−·15	20	19	−3	E	2	b	1	b	•	25	18	—
	Christiansund ...	30·21	33	ESE	2	b	30·09	−·22	32	29	−2	ESE	4	o	4	b	•	36	30	—
	Skudesnaes ...	30·25	36	SE	8	c	30·13	−·16	34	29	−2	SE	6	c	5	c	•	37	?	•
	Færder (X'iania Fjord)	30·48	28	E	2	o	30·34	−·22	27	24	0	E	2	o	2	o	•	28	25	—
	The Scaw (Skagen)	30·43	29	SE	4	o	30·30	−·19	27	27	−4	ESE	3	o	o	o	•	32	27	—
	Fanö	30·24	27	E	5	b	30·18	−·11	24	23	−2	E	4	c	•	b	•	32	23	—
British Islands	Sumburgh Head ...	29·82	42	SE	5	o	29·70	−·23	42	42	+2	S	3	r	6	o	•	43	39	0·17
	Stornoway	29·76	41	NW	3	b	29·62	−·18	43	42	+1	SW	4	c	4	r, b	0·0	44	33	0·15
	Wick	29·80	39	S	5	r	29·77	−·16	37	36	−1	S	3	c	6	r	•	43	35	0·10
	Nairn	29·81	38	L	0	r	29·75	−·18	32	31	+3	L	0	b	1	r	•	39	25	0·11
	Aberdeen	29·92	35	S	2	oc	29·80	−·20	34	34	+5	SW	1	bcm	3	09	0·0	39	28	0·38
	Leith	29·89	39	L	0	o	29·84	−·17	35	35	+5	L	0	m	•	o	•	40	29	0·15
	Shields	30·00	36	SW	2	o	29·86	−·19	37	37	+8	SW	2	cm	2	f, o	•	37	29	0·25
	Spurn Head ...	30·05	34	S	2	f	29·85	−·20	42	40	+6	W	5	o	3	f, r	•	44	33	0·09
	Loughborough ...	30·09	38	SSW	1	c	29·97	−·10	40	38	+5	W	3	cu	•	rq, bc	•	42	35	0·16
	Malin Head ...	29·81	44	NNW	4	r	29·83	−·03	42	41	0	SW	4	b	4	r	•	45	41	0·05
	Blacksod Pt. ...	29·93	44	NW	3	c	29·91	+·03	46	43	−2	W	5	bcp	4	r, c	•	49	41	0·33
	Donaghadee ...	29·86	45	S	3	r	29·86	−·13	37	37	−6	SSW	2	bc	3	r	•	45	37	0·29
	Liverpool (Bidston)	30·00	39	ESE	2	o	29·97	−·10	42	40	+8	WSW	3	o	3	m, or	•	44	34	0·20
	Holyhead	29·93	45	SSW	5	r	29·98	−·05	45	40	+6	W	3	c	2	o, r	•	46	38	0·56
	Parsonstown ...	29·91	44	W	1	o	29·99	+·02	36	35	+8	SSE	1	b	•	or	0·0	47	35	0·15
	Valencia	30·02	47	WNW	4	c	30·00	−·02	45	44	−2	ENE	2	oc	3	rmc	0·0	50	40	0·20
	Roche's Point ...	29·96	49	WNW	4	b	30·05	+·02	49	48	0	L	0	o	3	b	•	50	46	0·06
	Pembroke (St. Ann's Hd.)	30·02	50	S	4	r	30·07	+·02	47	44	+5	WNW	3	c	2	r	0·2	50	40	0·11
	Scilly	30·08	52	SW	1	o	30·05	+·03	53	52	+4	WSW	5	r	2	c, o	1·0	55	46	—
	Jersey (St. Aubin's) ...	30·16	46	NW	1	o	30·12	+·09	50	49	+8	WSW	4	o	3	o	•	50	41	0·03
	Portland Bill ...	30·13	43	SSE	1	o	30·06	+·02	48	47	+8	WNW	3	o	3	o	•	48	39	0·05
	Dungeness	30·12	34	N	2	c	30·02	−·01	46	44	+7	W	4	o	3	b, c	•	44	31	0·07
	London (Brixton) ...	30·13	32	L	•	f	30·03	−·04	39	38	+3	SW	2	c	•	ogf, r, bm	0·0	39	30	0·06
	Oxford	30·11	40	SW	1	o	30·04	−·03	39	39	+3	WSW	3	bc	•	fog	•	45	35	0·02
	Yarmouth	30·08	40	NW	1	bc	29·95	−·11	41	40	+3	SW	3	cm	3	bc	•	41	36	0·08
France & Netherlands. Germany.	Cuxhaven	30·17	21	ESE	2	o	30·12	−·08	16	16	−4	SSE	1	o	•	o	•	21	14	—
	Berlin	30·23	17	E	4	c	30·18	−·21	16	15	+4	S	1	b	•	c	•	19	16	—
	Wiesbaden	•	•	•	•	•	30·19	−·01	28	27	+5	E	2	o	•	•	•	28	23	0·04
	Munich	30·18	24	SE	1	s	30·11	−·10	32	32	+23	SE	1	o	•	s	•	32	9	0·04
	The Helder ...	30·11	23	E	1	b	30·03		29	29		SSE	1	r	1	b	•	30	23	—
	Brussels	•	•	•	•	•	30·15	+·04	30	30	+8	SSW	2	f	•	b	•	32	15	—
	C. Gris Nez ...	30·07	33	SE	1	m	30·02	+·06	39	39	+8	SSW	5	r	5	m	•	41	30	0·08
	Paris	30·13	34	NNW	2	c	30·21	+·19	34	34	0	S	2	m	•	c	•	37	32	0·08
	Brest	30·17	51	NNW	1	o	30·16	+·17	51	51	+2	WNW	3	c	3	o	•	54	48	—
	Lorient	30·18	45	W	1	m	30·20	+·18	50	50	+9	W	3	o	3	m	•	52	48	—
	Rochefort	30·12	43	N	4	m	30·20	+·25	42	41	−8	SE	2	o	•	m	•	50	39	0·04
	Belfort	30·17	34	L	•	f	30·26	+·09	36	36	+9	SW	3	f	•	f	•	36	27	0·04
	Lyons	30·15	40	S	2	r	30·32	+·14	38	38	−3	S	1	c	•	r	•	46	37	0·08
	Nice	30·25	38	E	4	r	30·24	−·03	39	39	−4	L	0	o	3	r	•	41	37	0·08
	Perpignan	30·21	48	L	0	bc	30·28	+·08	50	46	+8	NW	2	o	•	bc	•	56	42	—
	Biarritz	30·19	56	WSW	5	b	30·22	+·12	52	50	+1	SSW	3	c	2	b	•	57	48	—
Span. Pen.	Corunna																•			
	Lisbon	30·25	55	NNE	5	b	30·26	−·01	48	44	0	NNE	5	o	•	b	•	59	48	—
	Azores (P. Delgada)	30·13	60	NE	4	b	30·19	+·20	59	55	++	N	3	bc	3	b	•	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 recorded on the Tower of the Wesleyan Training College, Westminster*

Bright Sunshine yesterday Southport 0·0 hrs.

WEATHER CHARTS

FOR Sunday, 24th December, 1899.

BAROMETER, WIND AND SEA.

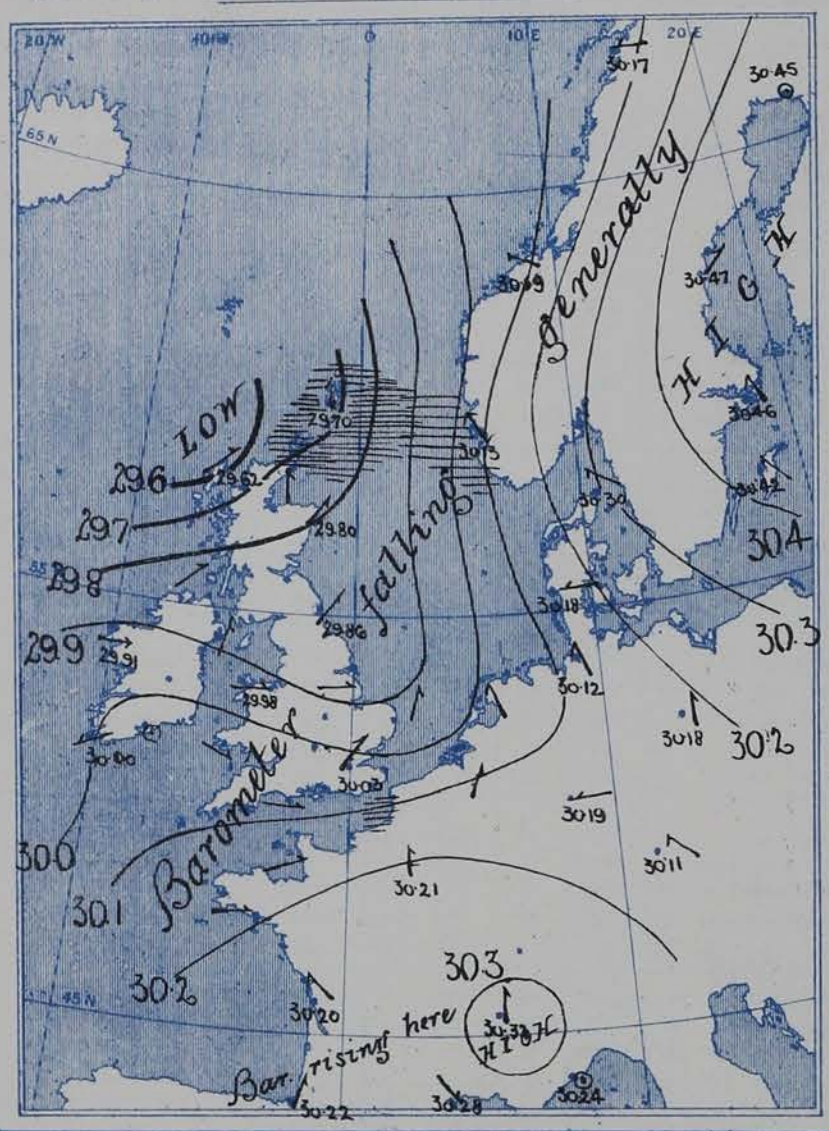
BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show 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* ▓

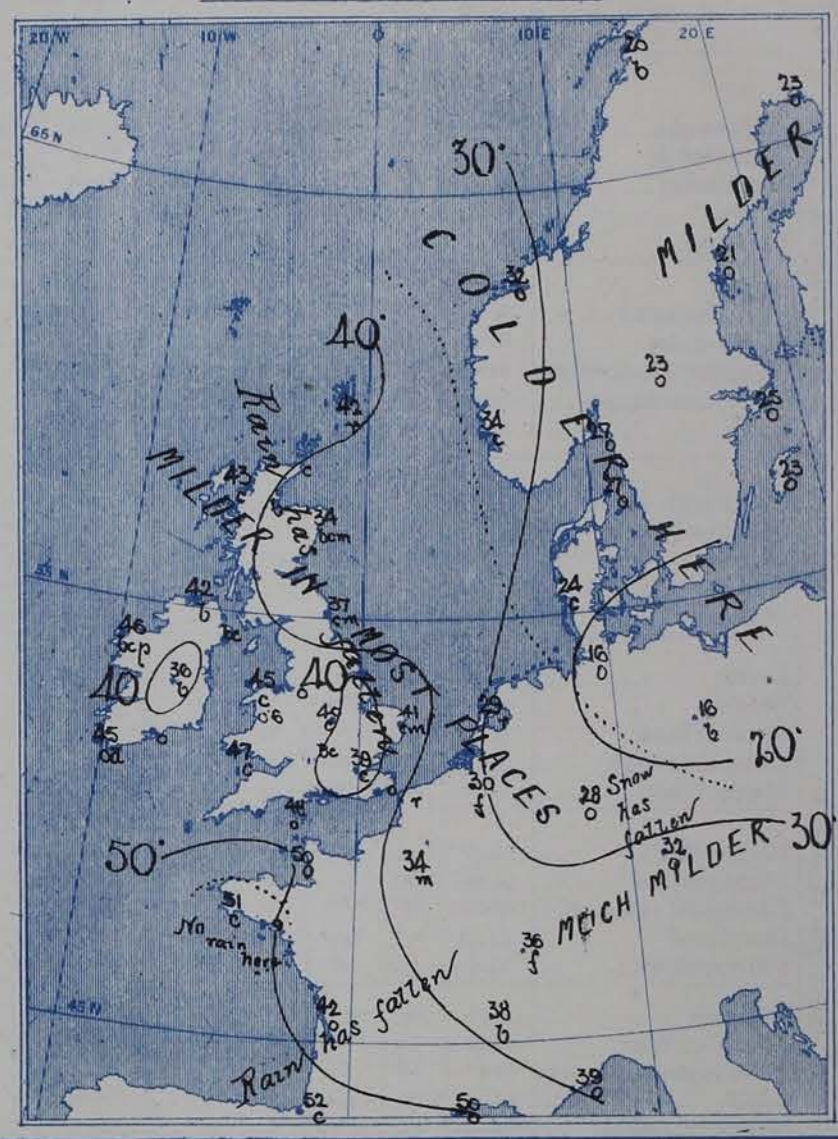


TEMPERATURE AND WEATHER.

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 Westminste.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, (1) 30·4 in: and more over Sweden and the Gulf of Bothnia, and spreading 30·1 in: over nearly the whole of Scandinavia and the eastern shores of the North Sea; (2) 30·3 in: and more to 30·1 in: over Spain and the southern half of France.

Lowest, (1) 29·6 in: at Stornoway, and below 29·7 in: over the northwestern and northern parts of Scotland; (2) below 29·9 in: in a secondary disturbance over the northeast of England; (3) below 30·0 in: in a new depression approaching the southwest of Ireland from the westward.

Gradients moderate and favourable for SE^{ly} winds in Norway, but variable in intensity for SW^{ly} and W^{ly} winds in most parts of our Islands.

Barometer falling in most parts of northwestern Europe, but changing very irregularly at our southwestern and southern stations, rising over France and Spain. A fresh fall has set in at Valencia

TEMPERATURE

Highest, 52° at Biarritz, 51° at Brest, 49° at Rochefort, 48° at Portland Bill, 46° to 45° in the west of Ireland.

Lowest, (1) 21° to 23° over Sweden, 24° at Faro; (2) 16° at Berlin, 28° at Nizhnadeu; (3) 31° at Nairn, 37° at Shields, 39° in London.

It is changing very suddenly and irregularly over our southwestern and southern districts, and has been as high as 50° on our southwest coasts.

WIND

SE^{ly} and E^{ly} over the greater part of Scandinavia, SW^{ly} and W^{ly} over the British Isles as a whole, very light variable and anticyclonic over France. At Valencia a light breeze from ENE has set in during the night. [Reports from Scilly are still wanting].

WEATHER

Fine in North Germany, fair temporarily at most of our northern and northwestern stations; dull elsewhere, with rain in places

There has been some rain during the past day in almost all parts of our Islands and France, the amounts collected being 0·56 in: at Holyhead and 0·38 in: at Aberdeen. The only Bright Sunshine recorded yesterday was 1·0 hr at Scilly and 0·2 hr at Pembroke.

SEA

Still rough in the far north, moderate in the west slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 25TH DEC: 1899.

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

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Skudesnass ...	30·26	37	33	SE	6	c	5
Sumburgh Head	29·85	41	40	SE	5	o	7
Stornoway... ...	29·72	44	42	SW	5	r	5
Aberdeen	29·94	35	33	S	2	ogm	4
Shields	30·02	35	38	SW	2	cf	2
Malin Head ...	29·78	44	44	SSW	5	r	3
Blacksod Pt.. ...	29·85	45	44	NW	3	r	3
Holyhead	30·00	46	45	SSW	3	o	2
Valencia	29·92	50	49	SSW	3	rm	4
Scilly	30·08	53	51	SW	2	c	2
Jersey	30·10	46	45	NNW	1	o	1
Portland Bill ...	30·10	43	41	E	1	o	2
Dungeness ...	30·08	42	39	ENE	1	b	1
London (Westminster)	30·09	41	39	L	0	f	*
Yarmouth ...	30·05	41	40	NW	1	bc	3
Rochefort ...	30·04	46	45	NW	5	m	*

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

Weather in morning dull over Russia, the Baltic, the Netherlands, France, and England, with snow over several parts of the eastern countries, rain in France, fog over England. Fine over several parts of Scotland, Ireland, and the Mediterranean. Rain falling at times later — most in Ireland and Scotland, fog becoming very dense in London and continuing for many hours.

Temperature in morning highest 51° at Biarritz, 49° at Brest, 48° to 47° in the west of Ireland and 42° at Jersey. Lowest (1) 8° at Ukeaborg, 10° at Moscow, and below 20° all over Russia; (2) −5° at Prague, +8° at Vienna, Cracow, and Breslau, 12° at Berlin, 20° at Gothaven; (3) 29° at Nairn, 30° at Leith, 36° in London. Rising later to above 40° over nearly the whole of the British Isles to 57° at Biarritz and 59° at Lisbon.

Wind SE³ and E³ moderate to strong over Scandinavia and the eastern shore of the North Sea, light and anticyclonic over the rest of Continental Europe, very variable and light over England, but moderate to fresh from the S^wd or SW^rd over Ireland and Scotland. Shifting to NW. again at our northwestern and western stations in evening; a SW¹ breeze spreading over England.

Barometer in morning highest (1) 30·8 ins: and more over Central Russia, and ranging between that value and 30·2 ins: over Austria, Germany, the Baltic, and the eastern shores of the North Sea; (2) 30·4 ins: and more to 30·1 ins: over the Iberian Peninsula. Lowest 29·8 ins: to 30·0 ins: in a depression over our northwestern districts and below 30·0 ins: in a secondary near Rochefort. Beginning to rise in Ireland later, but falling all over the Continent.

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 Monday 25th 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	30·52	0	S	2	o	30·46	+·01	6	5	− 17	ESE	2	o	*	o	*	27	0	—
	Hernösand	30·34	21	SW	2	o	30·25	−·22	24	22	+ 3	S	2	o	*	o	*	34	18	—
	Stockholm	30·28	28	ESE	2	o	30·11	−·35	25	23	0	E	2	o	*	o	*	27	23	—
	Wisby	30·20	22	SSE	4	o	30·01	−·41	24	23	+ 1	ESE	4	s	*	o	*	24	19	—
	Karlstad	30·22	24	E	2	o	30·06	−·33	22	21	− 1	NE	2	o	*	o	*	*	*	—
	Bodö	30·11	23	E	4	b	30·06	−·11	23	20	+ 3	E	4	b	o	b	*	23	19	—
	Christiansund ...	29·95	33	ESE	2	b	29·84	−·25	28	25	− 4	ESE	3	b	3	b	*	38	27	0·39
	Skudesnaes ...	29·99	32	SE	8	o	29·83	−·30	31	27	− 3	SE	6	o	4	o	*	34	30	*
	Færder (X'iania Fjord)	30·20	27	ESE	2	o	30·00	−·34	25	24	− 2	NE	5	s	2	o	*	27	25	—
	The Scaw (Skagen)	30·04	29	ESE	2	o	29·93	−·37	27	27	0	ESE	3	o	o	o	*	29	27	—
	Fanö	29·99	26	SE	4	o	29·85	−·33	25	25	+ 1	ESE	3	o	*	o	*	27	23	—
British Islands.	Sumburgh Head ...	29·54	40	SSW	3	r	29·49	−·21	36	35	− 6	WSW	1	b	5	b, r	*	44	34	0·15
	Stornoway	29·62	38	WNW	4	b	29·58	−·04	34	33	− 9	NW	4	showq	4	b	1·3	44	30	0·18
	Wick	29·65	38	S	3	r	29·55	−·22	31	30	− 6	W	3	c	3	r	*	43	30	0·05
	Nairn	29·69	35	WNW	1	b	29·61	−·14	33	32	+ 1	NW	1	c	1	b	*	44	30	0·03
	Aberdeen	29·72	36	WNW	2	orq	29·66	−·14	31	30	− 3	SW	2	bcm	2	orq	4·3	39	31	0·01
	Leith	29·77	42	WSW	2	r	29·73	−·11	34	33	− 1	WSW	2	bm	*	r	*	45	32	0·02
	Shields	29·84	39	SW	1	bm	29·76	−·10	34	33	− 3	W	2	bc	2	bm	*	40	33	—
	Spurn Head ...	29·90	38	WSW	3	b	29·80	−·05	37	36	− 3	W	4	b	3	b	*	43	35	—
	Loughborough ...	29·97	37	SW	2	b	29·90	−·07	35	34	− 5	W	4	bq	*	bc, op, b	*	46	33	0·02
	Malin Head ...	29·80	43	WNW	5	b	29·82	−·01	39	39	− 3	WNW	6	bc	5	p, b, rq	*	44	37	0·06
	Blacksod Pt. ...	29·97	42	NW	5	bcpq	29·99	+·08	41	38	− 5	NW	5	bcq	4	bcpq	*	47	38	0·09
	Donaghadee ...	29·86	41	WNW	2	cpq	29·87	+·08	34	34	− 3	NW	3	b	3	cpq	*	43	32	0·02
	Liverpool (Bidston)	29·91	40	SW	3	b	29·89	−·08	39	36	− 3	W	5	c	5	b, r	*	44	37	0·12
	Holyhead	29·91	45	WSW	2	c	29·93	−·05	41	38	− 4	W	5	chp	3	c	*	47	38	0·13
	Parsonstown ...	29·97	39	NW	1	c	30·02	+·03	33	32	− 3	SE	1	c	*	cp	1·8	46	32	0·04
	Valencia	30·04	46	NNW	5	cpq	30·12	+·12	46	42	+ 1	WNW	5	cp	4	cpq	0·1	48	41	0·22
	Roche's Point ...	29·98	45	NW	1	bc	30·09	+·04	42	40	− 7	NW	3	b	3	m, bc	*	49	39	0·01
	Pembroke (St. Ann's Hd.)	29·94	47	S	1	c	30·01	−·06	44	42	− 3	NW	4	bc	2	o	0·0	48	42	0·10
	Scilly																			
	Jersey (St. Aubin's) ...	30·07	50	W	4	rm	30·00	−·02	45	42	− 5	NW	4	bc	3	rm	*	51	45	0·42
	Portland Bill ...	30·00	45	SE	2	or	29·99	−·07	41	39	− 7	NNW	4	b	3	or	*	49	39	0·35
	Dungeness	30·01	41	NW	1	c	29·90	−·12	39	38	− 7	NNE	1	c	1	c, r	*	46	36	0·17
	London (Brixton) ...	30·01	37	W	1	o	29·94	−·09	35	35	− 4	WNW	2	b	*	o	0·0	44	34	0·01
	Oxford	29·97	39	Z	o	b	29·95	−·09	35	34	− 4	WNW	3	b	*	b	*	45	35	0·01
	Yarmouth	29·92	38	W	2	bm	29·92	−·03	35	34	− 6	W	2	bcm	3	bc bm	*	42	33	—
France & Netherlands. Germany.	Cuxhaven	30·01	21	SE	1	s	29·76	−·36	27	27	+ 11	SE	1	f	*	s	*	28	16	—
	Berlin														*		*			
	Wiesbaden	*	*	*	*	*	29·94	−·25	35	34	+ 7	E	1	m	*	*	*	35	28	0·20
	Munich	30·13	34	SW	3	c	30·01	−·10	34	34	+ 2	SW	3	r	*	c	*	36	32	0·08
	The Helder ...	29·85	39	WSW	2	o	29·79	−·24	41	38	+ 12	SW	2	o	2	o	*	41	28	0·08
	Brussels	*	*	*	*	*	29·89	−·26	35	35	+ 5	SW	1	r	*	f	*	35	29	0·20
	C. Gris Nez ...	30·02	43	NNW	3	c	29·87	−·15	39	38	0	NE	1	o	1	c	*	46	36	0·32
	Paris	30·10	39	S	2	o	29·93	−·28	41	41	+ 7	S	2	f	*	o	*	41	32	0·32
	Brest	30·05	51	W	3	o	30·09	−·07	46	43	− 5	N	3	b	3	o	*	55	43	0·04
	Lorient	30·11	50	W	3	o	30·05	−·15	45	45	− 5	N	4	c	4	o	*	54	43	0·24
	Rochefort	30·14	48	SE	2	o	29·98	−·22	46	45	+ 4	S	3	r	*	o	*	50	42	0·20
	Belfort	30·20	35	W	4	†	30·03	−·23	38	37	+ 2	SW	4	r	*	f	*	38	34	0·16
	Lyons	30·28	39	S	1	o	30·12	−·20	35	35	− 3	SSE	1	f	*	o	*	43	35	—
	Nice	30·22	42	Z	o	o	30·03	−·21	43	39	+ 4	E	1	o	3	o	*	48	39	—
	Perpignan	30·26	50	Z	o	c	30·07	−·21	44	41	− 6	SW	1	o	*	c	*	59	39	—
	Biarritz	30·15	54	Z	o	o	30·02	−·20	51	49	− 1	WSW	3	r	2	o	*	57	?35	0·08
Span. Pen.	Corunna														*		*			
	Lisbon	30·11	50	WSW	4	b	30·22	−·04	47	45	− 1	N	4	bc	*	b	*	54	46	—
	Azores (P. Delgada)	30·26	59	NNE	4	b	30·26	+·07	58	55	− 1	NNE	4	bc	4	b	*	68	55	—

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

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

Bright Sunshine yesterday Southport 0·7 hrs.

WEATHER CHARTS

FOR *Monday, 25th December,* 1899.

BAROMETER, WIND AND SEA.

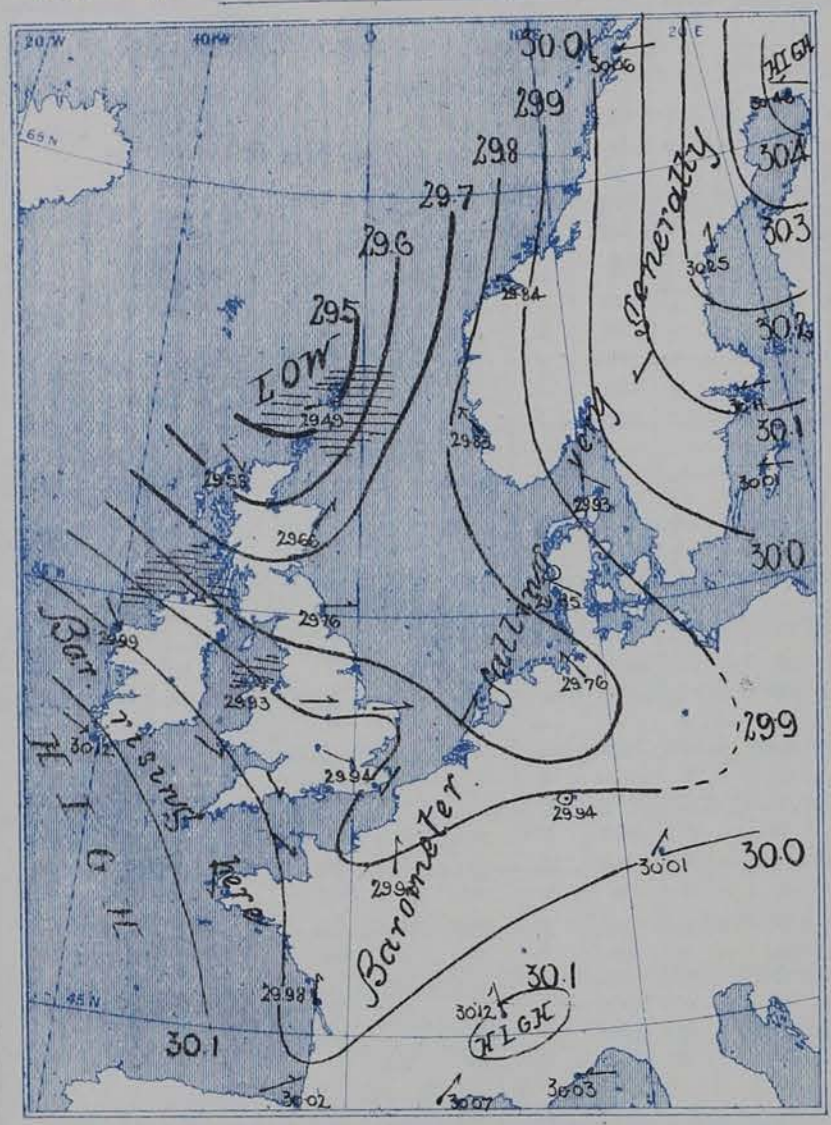
BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show 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 AND 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 (1) 30.46 ins at Haparanda, and above 30.0 ins. over the whole of Sweden; (2) 30.2 ins. and more to 30.0 ins. over Spain, and above 30.10 ins. at Valencia.
Lowest 29.49 ins. at Sumburgh Hd., and 29.75 ins. to 29.9 ins. in shallow secondary disturbances over the Netherlands, the N.E. of France and N.W. of Germany.
Gradients moderate for SE. winds over Scandinavia, and for NW. winds over our Nn. and W. districts, slight and very variable in the SE. Barometer rising in the W. and S. falling a little in the NE.

TEMPERATURE

Highest 46° at Rochefort, Brest and Valencia (Ireland), 41° at Blackrod Point.
Lowest (1) 6° at Haparanda, 22° at Karlstad, 24° at Hernösand and Wisby, 25° at Paris, 34° at Munich, 41° at the Helder and Paris; (2) 31° at Aberdeen, 33° at Parsonstown, 35° at Loughborough & London.
It was falling over our Islands generally, after touching 49° to 48° at our NW. stations yesterday and 50° at Rochefort.

WIND

Moderate to strong from E. and SE. over Scandinavia; from NW. and W. over our Islands; very variable over the Netherlands and northeast of France. At Brest and Lisbon it was N.

WEATHER

Rainy in the S. and E. of France, and also at Valencia and Stornoway; dull over Sweden, fine in Norway and over England.
A little rain had fallen very generally over the United Kingdom, Belgium & the W. of France.
Bright Sunshine recorded yesterday was 4.3 hrs. at Aberdeen, 1.8 hrs at Parsonstown, very little elsewhere.

SEA

Rather rough in the N. and NW, moderate in the W, slight in other exposed places.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 26TH DECEMBER 1899.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Skudesnaes ...							
Sumburgh Head	29.50	43	41	S	3	7	6
Stornoway... ...							
Aberdeen							
Shields							
Malin Head ...	29.80	42	41	NW	4	ϕ	4
Blacksod Pt.. ...							*
Holyhead	29.94	47	42	WSW	3	c	2
Valencia							
Scilly							
Jersey	30.08	51	49	WSW	5	rm	4
Portland Bill ...							
Dungeness ...	30.02	46	44	NNW	2	c	2
London (Westminster)							*
Yarmouth ...	29.91	41	39	W	3	bc	3
Rochefort ...	30.16	49	48	S	2	o	*

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

Continental information not received.

SUMMARY OF CHANGES IN THE WEATHER OVER EUROPE FROM THE 17TH TO 23RD DECEMBER.

At the commencement of this week a large anticyclone in which the maximum readings ranged from 30.8 ins. and more to 30.5 ins. covered Russia and Finland, and extended W^wds in a Ridge-like form to our own N.E. coasts, while depressions lay – some over the Atlantic and the Bay of Biscay, another (shallower) over the Adriatic. The wind was consequently E^ly in most places, N^ly over the Mediterranean, but drew into S.E. and S. over Ireland and Scotland, and in those places it blew strongly.

This general condition (of high Russian and low Atlantic and Mediterranean pressures) continued in force for some days, the anticyclone increasing so much in intensity that on Tuesday it exceeded 31.2 ins. over Russia, several times some disturbances over the Atlantic advanced to our W^rn coasts, but failed to affect an entrance, so that while the weather over our W^rn districts was raining and comparatively mild, that over the Continent was cold and wintery, and even at our own E^rn stations it was very similar.

On Wednesday the anticyclone began to decrease in intensity, and a well-marked depression appeared over the Mediterranean, causing gales and strong winds which lasted for some days in N^rn Italy.

At the end of the week, however, pressure near the anticyclones centre still exceeded 30.8 ins., and the S^ly current had made but very slight inroads beyond our W^rn and N^rn districts. A new anticyclone had been formed over Spain since Thursday and was growing in height.

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, 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.	Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Change since Yesterday.	Temperature. Dry Bulb	Wet Bulb.	Change since Yesterday.	Wind. Direc.	Force (0 to 12.)	Weather	Sea (0 to 9.)	PAST 24 HOURS Weather.	Hours of Bright Sunshine.	Temp. Max	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°									Ins
Scandinavia.	Haparanda	30.47	10	NE	0	0	30.44	-.02	17	16	+11	SE	4	C	*	0	*	?	-15	-
	Hernösand	30.21	17	SE	4	0	30.19	-.06	16	15	-8	SSW	4	S	*	0	*	25	14	0.04
	Stockholm	29.97	22	ENE	4	S	29.94	-.17	25	24	0	E	2	S	*	S	*	25	19	0.12
	Wisby	29.88	26	SE	4	0	29.84	-.17	28	27	+4	SE	4	S	*	O	*	28	19	0.04
	Karlstad	29.95	20	ENE	4	0	29.88	-.18	21	20	-1	NE	4	S	*	O	*	*	*	0.08
	Bodö	30.10	23	E	6	b	30.16	+.10	16	13	-7	E	6	b	2	b	*	23	14	-
	Christiansund ...	29.77	27	ESE	4	b	29.79	-.05	26	24	-2	ESE	4	O	4	b	*	28	21	-
	Skudesnaes ...	29.72	32	ESE	6	S	29.67	-.16	31	26	0	E	6	bc	4	O	*	32	28	*
	Færder (X'iania Fjord)	29.88	26	ENE	6	O	29.79	-.21	22	22	-3	NE	6	S	5	O	*	26	21	-
	The Scaw (Skagen)	29.77	29	ESE	3	O	29.63	-.30	30	30	+3	E	4	S	1	O	*	30	27	0.08
	Fanö	29.60	29	ESE	4	O	29.61	-.24	33	33	+8	W	2	S	*	O	*	34	25	0.0
British Islands	Sumburgh Head ...	29.44	34	S	1	O	29.50	+.01	37	36	+1	SE	5	r	7	O	*	39	33	
	Stornoway	29.50	30	NW	4	b	29.43	-.15	35	34	+1	N	3	O	3	b	0.7	35	28	
	Wick	29.44	32	NW	3	c	29.45	-.10	24	24	-7	NW	1	bc	3	c	*	35	1	0
	Nairn	29.51	32	WNW	2	b	29.44	-.17	27	25	-6	W	0	b	1	b	*	35	26	-
	Aberdeen	29.53	33	SW	2	bc	29.46	-.20	29	28	-2	W	3	bc	3	bc	2.1	34	20	-
	Leith	29.62	34	WSW	4	m	29.46	-.27	27	27	-7	WSW	1	f	*	m	*	37	26	0.11
	Shields	29.69	35	SW	3	bc	29.45	-.31	34	33	0	SW	2	c	2	bc	*	38	32	-
	Spurn Head ...	29.76	36	WSW	5	b	29.50	-.30	37	36	0	SW	4	r	2	b	*	44	34	-
	Loughborough ...	29.86	33	SW	1	b	29.55	-.35	38	37	+3	SW	3	op	*	c.s.b.op	*	38	33	0.04
	Malin Head ...	29.71	39	WNW	6	bcrhq	29.53	-.29	38	37	-1	NW	5	b	4	r.hrq	*	40	34	0.17
	Blacksod Pt. ...	29.88	42	NW	4	bchp	29.65	-.34	40	36	-1	NNW	4	bcp	3	hp	*	43	36	0.58
	Donaghadee ...	29.77	35	NW	3	b	29.53	-.34	34	34	0	NW	3	bcp	4	sp.b	*	37	32	0.06
	Liverpool (Bidston)	29.82	38	WSW	4	bc	29.49	-.40	37	36	-2	WSW	2	r	2	rhp	*	42	34	0.48
	Holyhead	29.84	41	WNW	5	bc	29.51	-.42	40	38	-1	WNW	5	cp	4	c.bc	*	42	37	0.07
	Parsonstown ...	29.88	36	S	1	c	29.63	-.39	34	33	+1	NW	1	O	*	e	4.4	41	32	0.03
	Valencia	29.98	46	W	5	bc	29.66	-.46	43	41	-3	N	4	O.qp	4	bc	2.5	48	42	0.21
	Roche's Point ...	29.96	42	WNW	2	b	29.65	-.44	42	40	0	WNW	3	op	3	p.b	*	43	40	0.15
	Pembroke (St. Ann's Hd.)	29.95	45	WNW	4	bc	29.61	-.46	43	43	-1	NW	5	r	4	bc	4.1	46	42	0.12
	Scilly																			
	Jersey (St. Aubin's) ...	30.28	45	WNW	3	bc	29.76	-.24	46	44	+1	WSW	5	or	4	bc.r	*	48	44	0.11
	Portland Bill ...	29.97	44	NW	5	b	29.67	-.32	44	43	+3	WNW	5	O	4	b	*	44	38	-
	Dungeness	29.91	37	NW	2	b	29.70	-.20	44	43	+5	N	4	r	3	b	*	44	34	0.05
	London (Brixton) ...	29.91	36	W	1	b	29.64	-.30	37	36	+2	WSW	2	O	*	b.or	0.9	42	32	0.05
	Oxford	29.90	35	WNW	3	b	29.60	-.35	39	38	+4	SW	3	O	*	b.rs	*	43	34	0.03
	Yarmouth	29.93	35	WNW	2	b m	29.58	-.34	35	34	0	SW	3	bcm	3	b.bm	*	38	30	-
France & Netherlands. Germany.	Cuxhaven	29.66	32	SW	1	O	29.70	-.06	27	26	0	SW	1	b	*	of	*	34	25	-
	Berlin	29.77	34	SSW	1	O	29.84		33	33		SW	1	O	*	O	*	34	32	0.16
	Wiesbaden	*	*	*	*	*	29.96	+.02	30	29	-5	SW	2	O	*	*	*	37	27	0.16
	Munich	29.85	35	SW	3	r	30.00	-.01	32	31	-2	W	1	O	*	r	*	39	32	0.24
	The Helder ...	29.73	40	W	4	bc	29.63	-.16	37	36	-4	S	2	O	1	bc	*	43	36	0.08
	Brussels	*	*	*	*	*	29.81	-.08	34	33	-1	S	4	r	*		*	36	30	0.08
	C. Gris Nez ...	29.90	40	W	3	c	29.69	-.18	42	42	+3	W	5	r	5	c	*	43	36	0.20
	Paris	30.01	35	WNW	2	b	29.91	-.02	32	31	-9	S	2	bc	*	b	*	46	30	0.08
	Brest	30.10	47	WNW	2	c	29.77	-.32	46	44	0	W	4	e	4	c	*	54	39	0.08
	Lorient	30.11	46	N	3	c	29.87	-.18	47	46	+2	W	5	c	5	c	*	54	45	0.08
	Rochefort	30.02	44	N	3	c	29.95	-.03	33	32	-13	ESE	2	b	*	c	*	50	32	-
	Belfort	29.92	38	SW	6	r	30.05	+.02	28	27	-10	W	2	m	*	r	*	40	28	0.16
	Lyons	30.03	40	SW	1	r	30.05	-.07	34	34	-1	W	1	O	*		*	43	33	0.08
	Nice	29.95	44	E	0	O	29.92	-.11	41	38	-2	E	4	c	2	O	*	48	39	-
	Perpignan	30.03	53	NW	2	O	29.99	-.08	43	42	-1	SW	1	O	*	O	*	55	41	-
	Biarritz	30.03	54	NW	4	r	29.94	-.08	48	45	?	SSE	3	O	3	r	*	55	46	0.08
Span. Pen.	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 recorded on the Tower of the Wesleyan Training College, Westminster*

Bright Sunshine yesterday Southport 0.4 hrs.

WEATHER CHARTS

FOR Tuesday, 26th December, 1899.

BAROMETER, WIND AND SEA.

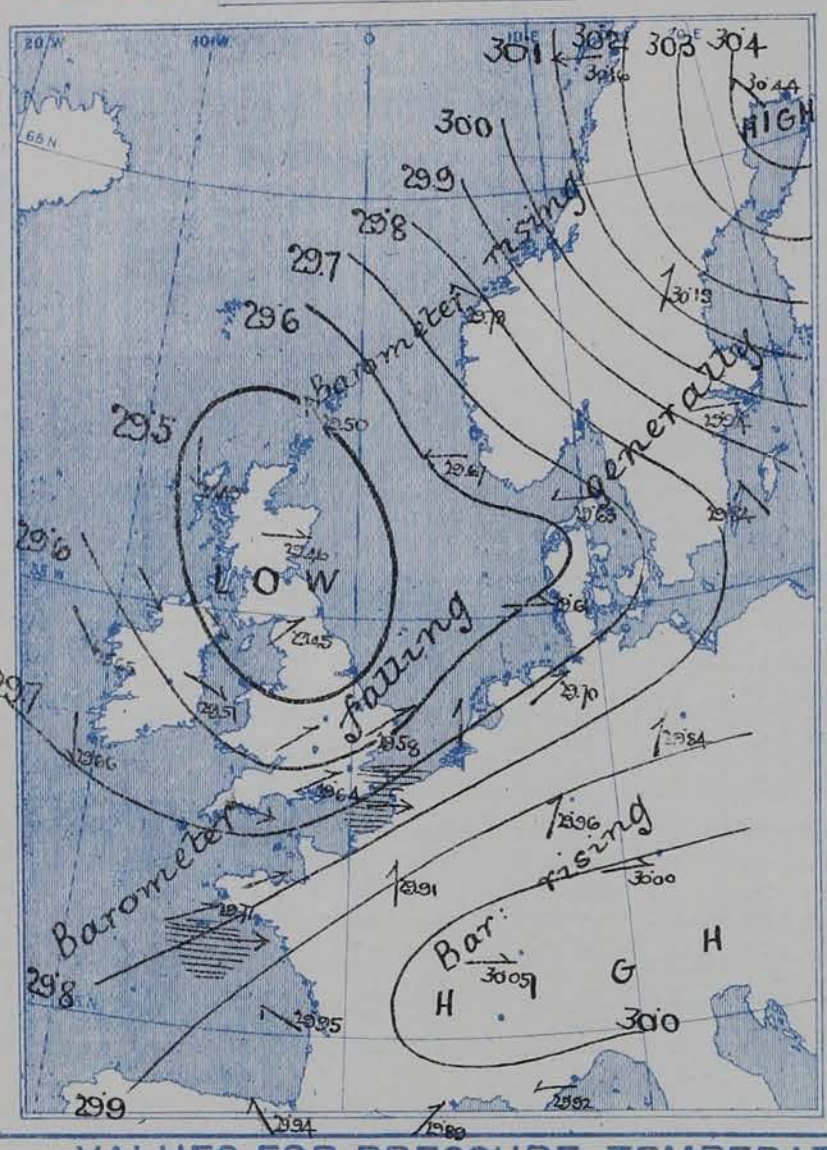
BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show 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*

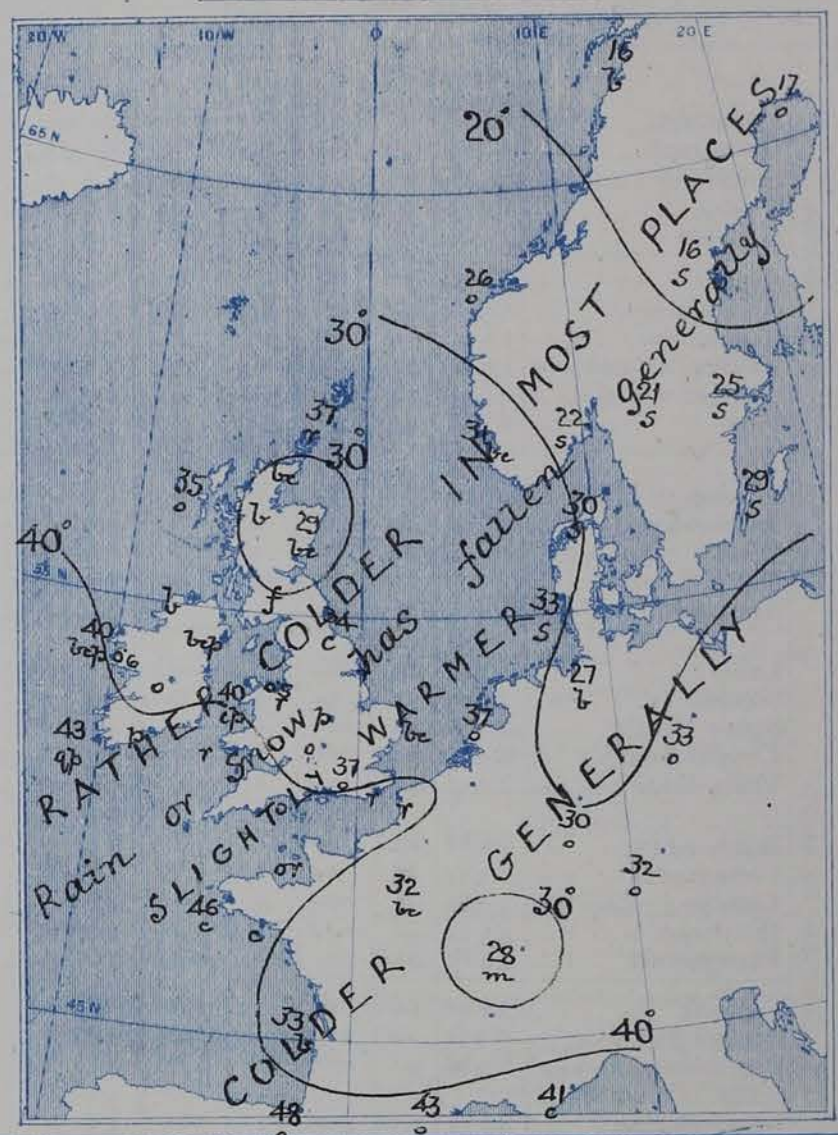


TEMPERATURE AND WEATHER.

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, 30·4 ins. and upwards over Lapland.
Lowest, 29·5 ins. and less, in a well marked but shallow depression lying over the northern parts of Great Britain
Gradients moderate or slight generally
Barometer falling generally, but rising in the north of Scotland and the west of Norway as well as in Germany.

TEMPERATURE

Highest, 48° at Biarritz, 47° at Lorient, 46° at Jersey and Brest, and 44° at Portland Bill.
Lowest, (1) 16° at Boda and Hernösand, 17° at Haparanda, and 21° at Karlstad; (2) 24° at Wick, 27° at Nairn and Leith.
Frost occurred last night in many parts of the United Kingdom, the lowest readings reported being:—(1) In the screen 19° at Wick, and 26° at Nairn, Aberdeen, and Leith; (2) On the grass 24° at Loughborough and 26° in London.

WIND

Moderate to fresh from the NW^{wd}. on our western coasts and from the W^{wd}. over the English Channel.
Light from the SW^{wd}. over the eastern and central parts of England, and also over the Netherlands, Germany and the northeast of France.
Moderate to strong from the E^{wd}. or NE^{wd}. in Scandinavia: light from E. or SE. over the southern parts of France.

WEATHER

Fine in the east of Scotland and also at several of the French and Norwegian stations.
Cloudy or dull elsewhere, with rain or passing showers in many parts of the United Kingdom, and snow in Sweden, Denmark and the south of Norway.
Since yesterday morning rain or sleet has fallen in several parts of Western Europe, the largest amounts reported being 0·6 inch at Blackrod Point, and 0·5 inch at Liverpool.

SEA

Moderate or slight generally, but high at Pembroke Hd. and rather rough at Cape Gris Nez and Lorient.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression in the north seems likely to spread slowly in a southeasterly direction. Cold, changeable, weather is likely to continue for a time over our Islands, with sleet or snow in many places.

FORECASTS

For the 24 hours ending at NOON on 27TH DECR. 1899.

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	NW^{wd}. winds, light; fine at first, snow showers later.
1	SCOTLAND EAST	
2	ENGLAND N.E.	SW^{wd}. to NW^{wd}. winds, light; changeable, some cold showers, snow in places.
3	ENGLAND EAST	SW^{wd}. and W^{wd}. winds, light; changeable, some cold showers, probably sleet.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	
6	SCOTLAND WEST	NW^{wd}. winds, fresh; changeable, some cold showers.
7	ENGLAND N.W.	
8	ENGLAND S.W.	
9	IRELAND NORTH	
10	IRELAND SOUTH	
	WARNINGS	NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Skudesnaes	29.76	32	32	SE	6	o	4
Sumburgh Head	29.46	36	34	S	1	c	5
Stornoway							
Aberdeen							
Shields							
Malin Head ...	29.77	40	37	WNW	6	b	5
Blacksod Pt.							*
Holyhead	29.89	41	38	W	6	c	4

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Valencia							
Scilly							
Jersey	30.07	47	42	NW	4	b	3
Portland Bill ...							
Dungeness ...	29.91	41	39	NNW	1	bc	1
London (Westminster)							*
Yarmouth ...	29.92	38	35	W	3	b	3
Rochefort ...	29.98	50	48	NW	3	e	*

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 Wednesday, 27th 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	30.43	15	SE	4	0	30.34	-.10	14	13	- 3	SE	4	0	•	0	•	19	10	0.04
	Hernösand	30.20	19	E	2	S	30.25	+.06	12	11	- 4	N	4	S	•	S	•	19	12	0.16
	Stockholm	29.91	29	E	2	S	30.00	-.06	31	30	+ 6	ESE	2	0	•	S	•	31	21	0.35
	Wisby	29.84	31	SSE	4	S	30.01	+.17	31	31	+ 3	S	4	b	•	S	•	32	23	0.24
	Karlstad	29.84	25	NE	4	S	29.88	.00	28	27	+ 1	NE	2	0	•	S	•	•	•	0.20
	Bodö	30.15	18	E	6	b	30.14	-.02	18	15	+ 2	E	4	b	1	b	•	18	12	-
	Christiansund ...	29.80	26	ESE	4	b	29.82	+.03	30	25	+ 4	ESE	2	b	4	b	•	30	25	-
	Skudesnaes ...	29.58	31	E	4	0	29.49	-.18	35	30	+ 4	E	6	c	4	0	•	36	28	•
	Færder (X'iania Fjord)	29.76	25	NE	6	0	29.72	-.07	30	29	+ 8	NE	6	S	6	0	•	30	21	-
	The Scaw (Skagen)	29.69	33	S	1	0	29.61	-.02	33	33	+ 3	S	4	S	1	0	•	?	28	0.08
	Fanö	29.50	33	SE	5	0	29.51	-.10	32	32	- 1	SE	4	0	•	0	•	34	30	0.20
British Islands	Sumburgh Head ...	29.55	36	ESE	3	0	29.51	+.01	37	34	0	ENE	4	0	5	0	•	38	32	0.05
	Stornoway	29.50	34	E	2	bc	29.53	+.10	33	32	- 2	N	2	S	2	b.bc	2.3	36	28	0.05
	Wick	29.50	34	E	5	0	29.49	+.04	35	34	+ 11	E	3	0	4	0	•	38	21	0.12
	Nairn	29.48	30	W	1	0	29.49	+.05	30	30	+ 3	W	1	b	1	0S	•	36	24	0.43
	Aberdeen	29.41	33	N	4	c sq	29.44	-.02	31	30	+ 2	NW	5	c sq	6	c sp. sq	0.0	34	28	0.13
	Leith	29.44	28	W	1	m	29.46	.00	28	28	+ 1	WSW	1	f	•	m	•	32	26	-
	Shields	29.43	31	W	3	bc	29.40	-.05	33	32	- 1	W	2	c	2	bc. hp	•	34	28	-
	Spurn Head ...	29.43	30	W	4	f	29.42	-.08	30	30	- 7	WNW	3	m	2	f	•	40	29	-
	Loughborough ...	29.50	31	W	1	fb	29.48	-.07	25	25	- 13	W	1	q	•	p. bc. bf	•	40	23	0.05
	Malin Head ...	29.48	38	W	1	bsp	29.47	-.06	37	36	- 1	E	3	bc	2	b. sp	•	40	34	0.02
	Blacksod Pt. ...	29.56	37	ESE	3	bc	29.46	-.19	31	30	- 9	NNW	1	b	1	chp. bc	•	42	29	0.02
	Donaghadee ...	29.49	34	NW	2	brsp	29.46	-.07	30	29	- 4	NW	2	bc	3	b. rsp	•	38	28	0.01
	Liverpool (Bidston)	29.49	34	NNW	1	b	29.50	+.01	28	27	- 9	ESE	1	f	?	r. b	•	39	25	0.05
	Holyhead	29.50	40	NNW	3	b	29.46	-.05	35	34	- 5	SW	1	c rsp	1	c. hp	•	40	33	0.05
	Parsonstown ...	29.54	31	SE	1	bc	29.51	-.12	23	23	- 11	NW	1	m	*	bc	5.2	38	22	-
	Valencia	29.55	40	W	2	cp	29.45	-.21	30	29	- 13	ENE	2	b	3	cp	1.4	43	28	0.14
	Roche's Point ...	29.54	40	N	2	c	29.50	-.15	30	29	- 12	NE	2	b	2	c	•	42	30	-
	Pembroke (St. Ann's Hd.)	29.51	38	NNE	1	bc	29.47	-.14	34	33	- 9	NE	2	bc	2	o. bc	0.0	44	33	0.02
	Scilly																			
	Jersey (St. Aubin's) ...	29.54	46	SW	5	r	29.44	-.32	40	39	- 6	WNW	3	o pd	3	o, r	•	48	40	0.60
France & Netherlands. Germany.	Portland Bill ...	29.49	40	N	3	c	29.48	-.19	30	30	- 14	NE	3	om	3	0	•	46	28	-
	Dungeness	29.48	44	W	5	r	29.43	-.27	33	32	- 11	NNE	3	c	3	o, r	•	46	32	- 41
	London (Brixton) ...	29.49	39	W	1	0	29.46	-.18	30	29	- 7	NW	1	oq	•	or. o	0.0	43	30	0.05
	Oxford	29.49	33	N	2	b	29.49	-.11	26	26	- 13	NW	1	f	•	r. b	•	41	26	0.03
	Yarmouth	29.41	38	NW	2	cm	29.43	-.15	25	25	- 10	NW	2	f	4	c. cm	•	39	24	0.04
	Cuxhaven	29.62	32	S	4	S	29.53	-.17	32	31	+ 5	S	4	0	•	0S	•	34	27	-
	Berlin	29.87	25	SW	1	b	29.79	-.05	21	21	- 12	SE	3	c	•	b	•	34	19	-
	Wiesbaden	•	•	•	•	•	29.65	-.31	31	30	+ 1	SSE	1	0	•	•	•	37	27	-
	Munich	29.85	30	E	4	0	29.75	-.25	24	24	- 8	E	2	f	•	0	•	34	24	-
	The Helder ...	29.46	38	SSW	3	r	29.44	-.19	33	33	- 4	S	1	S	1	r	•	39	32	- 63
	Brussels	•	•	•	•	•	29.48	-.33	34	32	0	S	2	S	•	bc	•	37	32	- 08
	C. Gris Nez ...	29.52	44	W	6	r	29.43	-.26	37	36	- 5	NE	4	r	4	r	•	46	36	† 0.35
	Paris	29.71	35	S	2	b	29.50	-.41	34	34	+ 2	S	2	S	•	b	•	40	30	0.04
	Brest	29.53	46	NNW	4	r	29.43	-.32	39	38	- 7	ENE	1	bc	4	r	•	48	37	0.20
	Lorient	29.54	46	WSW	5	r	29.47	-.40	45	43	- 2	NW	2	c	4	r	•	52	43	0.39
	Rochefort	29.71	38	S	3	bc	29.57	-.44	46	43	+ 13	SW	3	bc	•	c. bc	•	46	33	0.24
	Belfort	29.84	35	WSW	2	b	29.67	-.38	33	31	+ 5	E	3	0	•	b	•	39	28	-
	Lyons	29.88	33	S	1	0	29.70	-.35	42	39	+ 8	S	2	0	•	0	•	42	32	-
	Nice	29.90	46	E	2	c	29.78	-.14	41	?	0	E	3	r	3	c	•	52	39	0.20
	Perpignan	29.84	48	NW	0	0	29.72	-.27	39	39	- 4	W	1	0	•	0	•	52	36	-
	Biarritz	29.75	53	SSW	3	0	29.68	-.26	49	49	+ 1	SSW	4	b	3	0	•	55	46	0.20
Span. Pen.	Corunna																•			
	Lisbon	29.93	50	NNW	1	b	29.89	-.13	40	40	- 6	NNE	3	f	•	b	•	52	39	
	Azores (P. Delgada)	30.14	56	NE	2	bc	29.96	-.22	52	51	- 3	NNW	4	bc	4	bc	•	61	50	

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

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

Bright Sunshine yesterday Southport 4.2 hrs.

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FOR Wednesday, 27th December, 1899.

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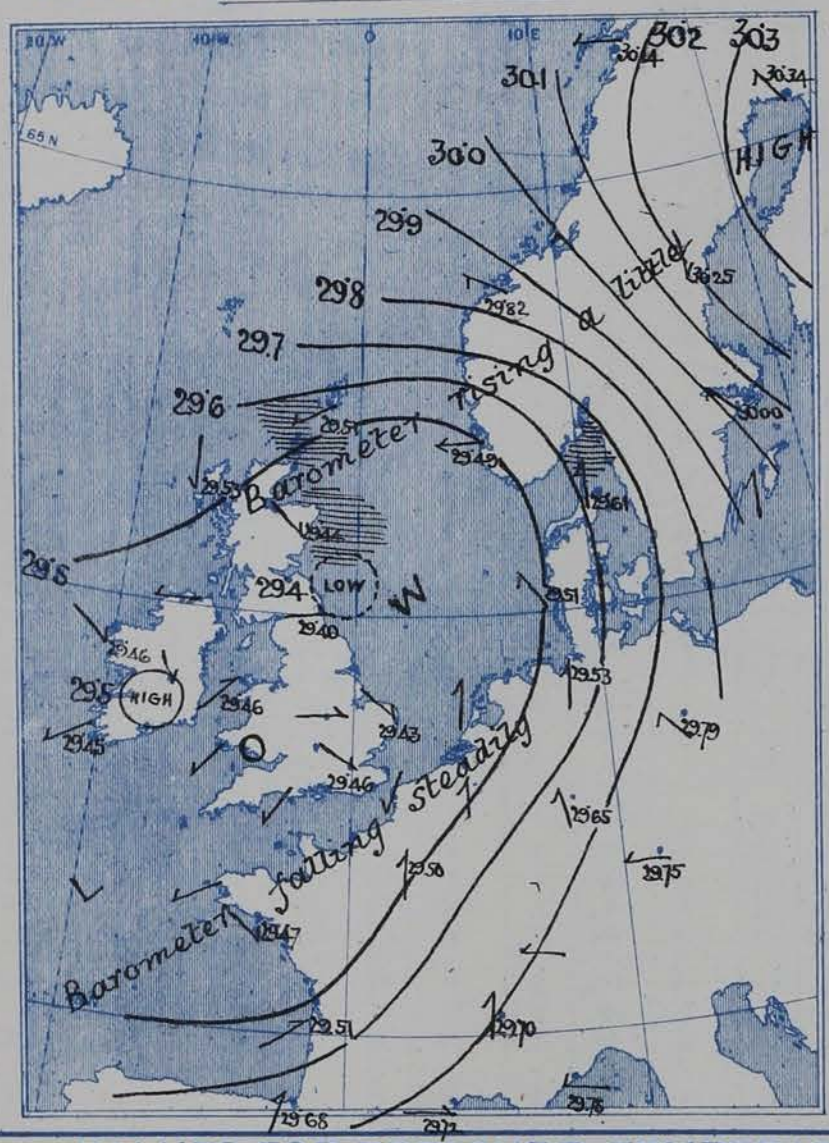
BAROMETER.—Isobars are drawn for each tenth of an inch.

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

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

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

SEA.—Rough ▤ : *High* ▩



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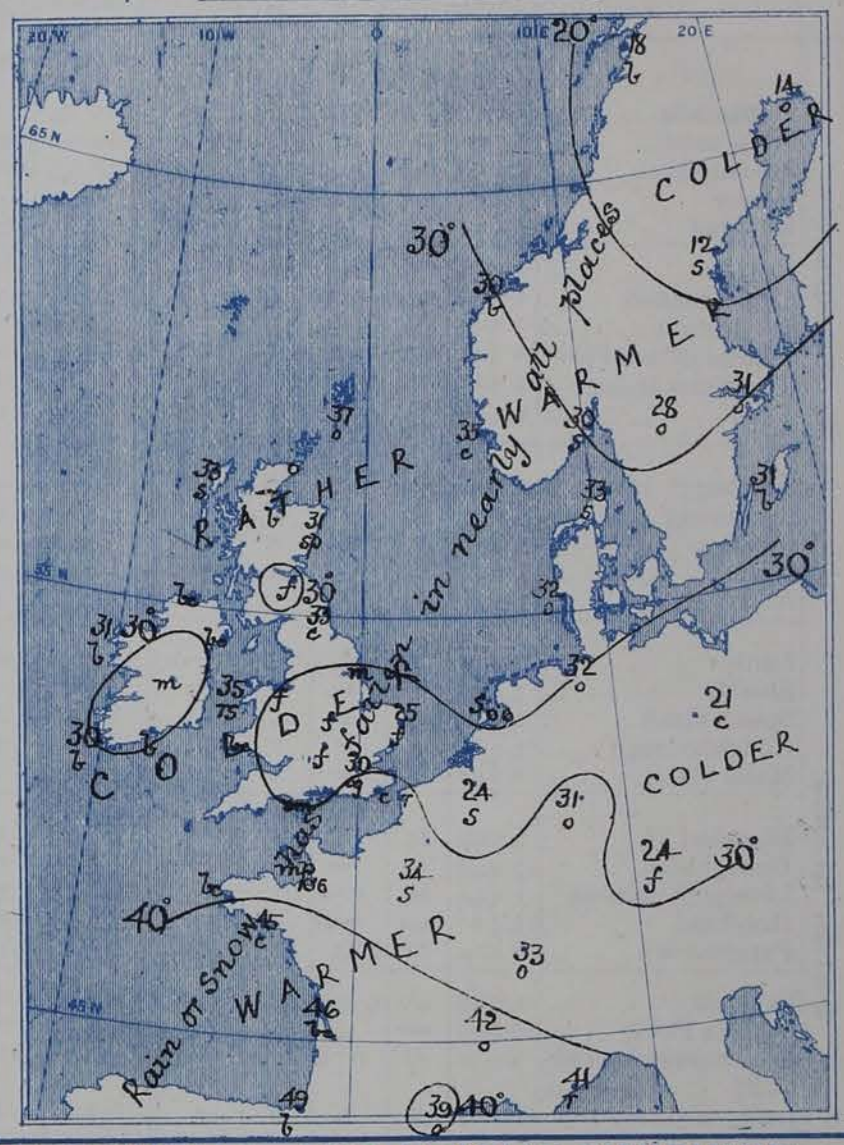

VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF DECEMBER.

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	—	—
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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 Westminste.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·3 in: and upwards in the north of Sweden; 29·8 in: and upwards in the south of Portugal.
Lowest, 29·5 in: and less, in a large shallow depression lying over nearly the whole of the United Kingdom, the North Sea, the Netherlands, and the north of France.
Gradients slight generally, but rather steep over the southern parts of Scandinavia.
Barometer rising a little in most parts of Scotland and Scandinavia, but falling elsewhere.

TEMPERATURE

Highest, (1) 49° at Biarritz, 46° at Rochefort, and 45° at Lorient; (2) 37° at Lizard Head and Malin Head.
Lowest, (1) 17° at Hernösand, 14° at Haparanda, and 8° at Bodö; (2) 21° at Berlin and 24° at Munich; (3) 23° at Parsonstown and 25° at Loughborough.
Sharp frost occurred last night in many parts of the United Kingdom, the lowest readings reported being:—(1) In the screen 21° at Wick, 22° at Parsonstown and 23° at Loughborough; (2) On the grass 15° at Loughborough, 25° at Oxford.

WIND

Light from the NE^{ly} on our southern coasts; variable in the northwest of our Islands, light from the W^{ly} or NW^{ly} over the eastern and central parts of Great Britain.
S^{ly} over the greater part of France, Germany, and Denmark; E^{ly} or NE^{ly} in Scandinavia and the north of Scotland, and strong in force in the south of Norway.

WEATHER

Fine in Ireland and also in the western parts of France and Germany.
Cloudy or dull elsewhere, with fog in many parts of England, rain in the north of France, and snow on some parts of our own north and northwest coasts, as well as in the Netherlands and at Paris, Skagen, Faeroes and Hernösand.
Rain or snow fell yesterday in many parts of Western Europe, the largest amount reported being 0·6 in: at Jersey and the Helder.

SEA

Slight or smooth generally, but rough off the northeast of Scotland and also at Faeroes.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression noticed yesterday in the north has increased greatly in size, though not in intensity, and now embraces the whole of our Island and the neighbouring parts of the Continent. For the present the system seems likely to remain almost stationary, and changeable weather is therefore probable, with fog and snow in many places.

FORECASTS

For the 24 hours ending at NOON on 28TH DEC^{R} 1899.

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	E^{ly} and NE^{ly} winds, moderate; cloudy, some snow showers.
1	SCOTLAND EAST	W^{ly} to Variable breezes; cloudy, some fog, snow showers in places.
2	ENGLAND N.E.	
3	ENGLAND EAST	Variable or NW^{ly} airs; cloudy, some fog, snow showers in places.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	
6	SCOTLAND WEST	Light Variable airs; cloudy, some snow showers.
7	ENGLAND N.W.	
8	ENGLAND S.W.	NE^{ly} winds, light; fair, cold.
9	IRELAND NORTH	Same as Nos 6 and 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.	WIND. Force.	WEA.	SEA.
Skudesnaes ...	29.63	31	27	E	4	o	4
Sumburgh Head	29.52	36	35	SE	4	c	6
Stornoway... ...	29.46	36	34	NW	2	b	2
Aberdeen	29.41	34	32	NW	3	csp	3
Shields	29.45	34	33	WNW	3	bc	2
Malin Head ...	29.49	30	28	NW	3	bc	3
Blacksod Pt.. ...	29.59	*39	*37	ENE	4	cph	3
Holyhead	29.51	40	37	NW	3	c	2

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Valencia	29.59	41	40	S	0	cp	4
Scilly							
Jersey	29.62	47	45	SW	6	r	4
Portland Bill ...	29.52	45	43	NW	5	o	4
Dungeness ...	29.49	46	44	SW	6	o	4
London (Westminster)	29.49	44	41	SW	2	ogz	*
Yarmouth ...	29.46	39	38	WSW	4	c	3
Rochefort ...	29.80	43	41	SSE	2	c	*

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

Weather in morning fine in the east of Scotland and also at several of the French stations, but cloudy and unsettled over Europe as a whole, with rain in several parts of our Islands and their neighbourhood. Snow falling in many parts of northern and central Europe. Rain or snow falling later in most of the western countries, rather heavily over the Channel Islands, the Netherlands and the north of France.

Temperature risen over England and the neighbouring parts of the Continent, as well as in Austria and Italy, fallen elsewhere. Morning readings highest 57° at Malta, 55° at Algiers, and 53° at Lampinaires; above 50° at several of the Mediterranean stations. Lowest −2° F. at Moscow, +1° at Kiew, 6° at St Petersburg, 8° at Hermanstadt, and 9° at Khaikov: below the freezing point over northern and central Europe generally, and also in Scotland. Daily maxima below 40° at most of our own northern and eastern stations, thermometer at Leith not exceeding 32°; rising to between 45° and 48° over the English Channel. Sharp frost occurring over our Islands at night.

Wind moderate to fresh from the NW^{wd} on our western coasts and from the W^{wd} over the Channel and north of France, light to moderate from the SW^{wd} or W^{wd} over the eastern and central parts of Great Britain. S^{ly} over the Netherlands, SW^{ly} over North Germany and Denmark, E^{ly} or SE^{ly} over Russia and Scandinavia; strong in force on the Norwegian coasts and blowing a gale at Helsingfors. Variable in Italy, E^{ly} or SE^{ly} over the southern part of France, NE^{ly} in Spain. No important change occurring during day.

Barometer highest 30·7 in: and upwards over northern Russia, 30·1 in: and upwards in an anticyclone lying over the whole of Russia, Austria, and the northern part of Scandinavia; 30·0 in: and upwards in another system over Spain and Algeria. Lowest 29·5 in: and less, in a large depression over the northern parts of Great Britain. Depression subsequently spreading over nearly the whole of Great Britain and the North Sea; barometer falling over Western Europe generally.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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

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" Weekly " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Thursday, 28th 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	30.20	12	S	2	0	29.95	-.39	16	15	+ 2	W	4	0	•	0	•	21	7	-
	Hernösand	30.23	11	NE	4	0	29.99	-.26	21	21	+ 9	NE	2	0	•	0	•	21	7	0.04
	Stockholm	30.10	29	calm	0	b	29.97	-.03	30	29	- 1	SE	4	0	•	b	•	34	28	-
	Wisby	30.04	31	S	4	0	29.91	-.10	28	27	- 3	SSE	4	0	•	0	•	32	25	-
	Karlstad	29.96	31	NE	2	0	29.87	-.01	30	30	+ 2	NE	2	5	•	0	•	•	•	0.28
	Bodö	30.08	19	E	4	0	29.74	-.40	26	23	+ 8	S	4	c	2	0	•	26	14	-
	Christiansund ...	29.86	31	ESE	4	b	29.80	-.02	29	27	- 1	ESE	1	b	3	b	•	32	27	-
	Skudesnaes ...	29.63	38	SE	6	c	29.74	+.25	37	32	+ 2	SSE	4	0	3	c	•	37	34	•
	Færder (X'iania Fjord)	29.84	35	E	4	0	29.88	+.16	33	32	+ 3	NE	4	0	2	0	•	?	30	0.24
	The Scaw (Skagen)	29.77	33	S	4	0	29.76	+.15	32	32	- 1	ESE	2	0	0	0	•	34	32	0.08
	Fanö	29.64	26	SE	4	0	29.69	+.18	28	27	- 4	ESE	1	0	•	0	•	32	27	-
British Islands.	Sumburgh Head ...	29.55	36	ENE	4	bcsp	29.65	+.14	37	37	0	NE	4	r	6	0.bcsp	•	42	30	0.30
	Stornoway	29.59	33	NE	2	0	29.57	+.04	38	37	+ 5	E	4	0	4	0.fl.ol	1.3	38	30	0.35
	Wick	29.51	37	E	6	0	29.53	+.04	40	38	+ 5	E	6	ou	6	0	•	40	32	0.12
	Nairn	29.55	34	W	2	bc	29.49	.00	31	30	+ 1	W	2	0	2	f.bc	•	36	27	0.12
	Aberdeen	29.46	34	NW	3	b	29.57	+.13	25	24	- 6	WSW	2	bm	3	cqsp.b	0.4	35	25	0.12
	Leith	29.52	30	W	2	m	29.55	+.09	23	23	- 5	calm	0	f	•	m	•	33	19	-
	Shields	29.51	30	W	2	b	29.58	+.18	29	29	- 4	SW	2	cm	2	b	•	34	26	-
	Spurn Head ...	29.53	33	WNW	4	m	29.56	+.14	36	34	+ 6	ESE	4	cf	3	m.f	•	43	25	-
	Loughborough ...	29.57	26	SW	1	f	29.55	+.07	25	25	0	ESE	2	oqm	•	qf.oqm	•	28	22	-
	Malin Head ...	29.54	37	E	2	b	29.45	-.02	38	37	- 1	E	5	bc	3	bc.b	•	39	34	-
	Blacksod Pt. ...	29.51	37	SE	3	b	29.26	-.20	38	36	+ 7	E	7	cq	6	b	•	40	31	-
	Donaghadee ...	29.52	38	N	2	bc	29.48	+.02	38	37	+ 8	SE	5	bc	4	s.bc	•	38	29	0.04
	Liverpool (Bidston)	29.55	30	ESE	1	f	29.45	-.05	30	29	+ 2	ESE	2	0	?	f	•	30	24	-
	Holyhead	29.51	35	SE	1	bcrsp	29.37	-.09	34	32	- 1	ENE	4	omrs	3	c.rsp	•	37	32	0.03
	Parsonstown ...	29.49	24	NW	1	b	29.16	-.35	36	34	+ 13	E	2	oq	•	f.b	0.0	36	22	-
	Valencia	29.34	38	ENE	4	0														
	Roche's Point ...	29.42	37	E	4	c	28.86	-.64	46	46	+ 16	ESE	8	r	6	c.r	•	46	30	0.90
	Pembroke (St. Ann's Hd.)	29.48	37	E	4	bc	29.07	-.40	39	38	+ 5	ESE	8	qrs	6	bc	4.4	39	32	0.12
	Scilly																			
	Jersey (St. Aubin's) ...	29.54	44	NE	2	bm	29.28	-.16	46	43	+ 6	E	8	cpm	6	bc.bm	•	46	40	0.08
	Portland Bill ...	29.56	33	ENE	2	b	29.28	-.20	46	45	+ 16	SSE	7	0	5	bm.b	•	46	30	0.11
	Dungeness	29.55	39	N	2	b	29.54	+.11	41	40	+ 8	SSE	6	r	6	c.b	•	42	25	0.02
	London (Brixton) ..	29.57	29	W	1	0	29.50	+.04	34	34	+ 4	SE	3	oqf	•	oq	0.0	34	25	-
	Oxford	29.60	28	calm	0	0	29.45	-.04	33	32	+ 7	E	4	rs	•	o	•	33	22	0.05
	Yarmouth	29.51	28	WNW	2	f	29.58	+.15	37	36	+ 12	SSE	4	cq	4	f	•	37	21	-
France & Netherlands. Germany.	Cuxhaven	29.54	28	S	2	b	29.70	+.17	30	30	- 2	W	1	f	•	b	•	32	27	0.04
	Berlin	29.75	24	SE	2	b	29.75	-.04	30	29	+ 9	SSE	2	s	•	b	•	30	19	0.04
	Wiesbaden	•	•	•	•	•	29.80	+.15	34	33	+ 3	SSE	1	0	•	•	•	36	31	0.16
	Munich	29.72	25	SE	2	c	29.85	+.10	25	25	+ 1	SE	3	bc	•	c	•	28	23	-
	The Helder ...	29.50	30	S	1	f	29.69	+.25	28	28	- 5	S	1	f	0	f	•	34	25	-
	Brussels	•	•	•	•	•	29.69	+.21	32	32	- 2	SE	2	f	•	f	•	35	31	0.04
	C. Gris Nez ...	29.55	34	ENE	1	0	29.57	+.14	34	33	- 3	SE	5	0	4	0	•	39	28	-
	Paris	29.62	37	S	2	bc	29.61	+.11	39	38	+ 5	SE	2	0	•	bc	•	39	33	-
	Brest	29.49	45	SE	3	0	29.02	-.41	50	50	+ 11	SE	6	0	5	0	•	?	36	0.47
	Lorient	29.49	45	E	2	c	29.15	-.32	51	51	+ 6	SE	6	0	5	c	•	51	43	0.28
	Rochefort	29.59	46	W	3	0	29.39	-.12	44	43	- 2	SE	4	0	•	0	•	48	41	0.08
	Belfort	29.69	39	W	2	0	29.80	+.13	34	33	+ 1	calm	0	0	•	0	•	41	31	0.08
	Lyons	29.75	43	SSE	1	0	29.73	+.03	42	38	0	S	5	cv	•	0	•	48	35	-
	Nice	29.77	43	E	1	0	29.78	.00	42	39	+ 1	E	5	c	4	0	•	45	39	0.08
	Perpignan	29.78	45	calm	0	bc	29.66	-.06	38	37	- 1	SW	1	0	•	bc	•	55	36	-
	Biarritz	29.68	50	S	3	b	29.43	-.25	55	46	+ 6	S	5	0	2	b	•	55	46	-
Span. Pen.	Corunna																			
	Lisbon	29.67	57	SSW	5	0	29.52	-.37	58	56	+ 18	SSW	7	0	•	0	•	57	40	0.95
	Azores (P. Delgada)	29.78	54	N	4	bc	29.89	-.13	52	47	- 2	NW	4	bc	3	bc	•	63	50	-

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 recorded on the Tower of the Wesleyan Training College, Westminster*

Bright Sunshine yesterday Southport 0·0 hrs.

WEATHER CHARTS

FOR Thursday, 28th December, 1899.

BAROMETER, WIND AND SEA.

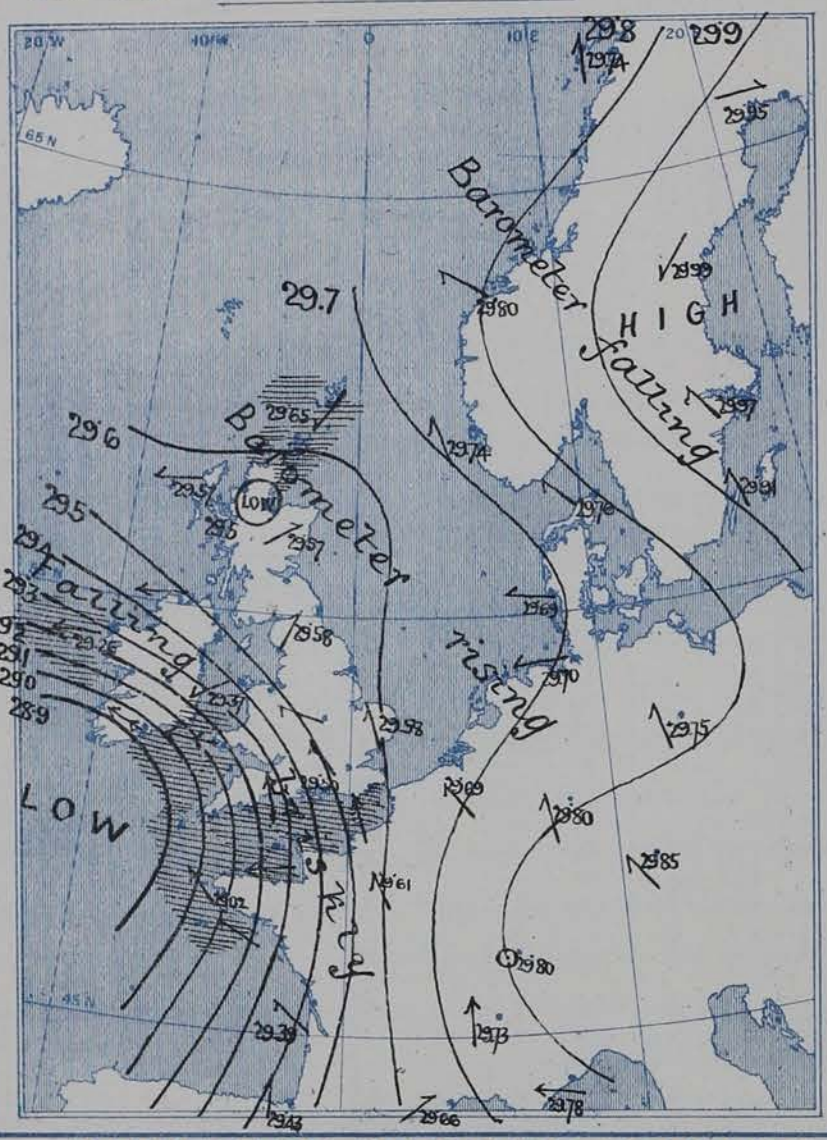
BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show 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* ▓

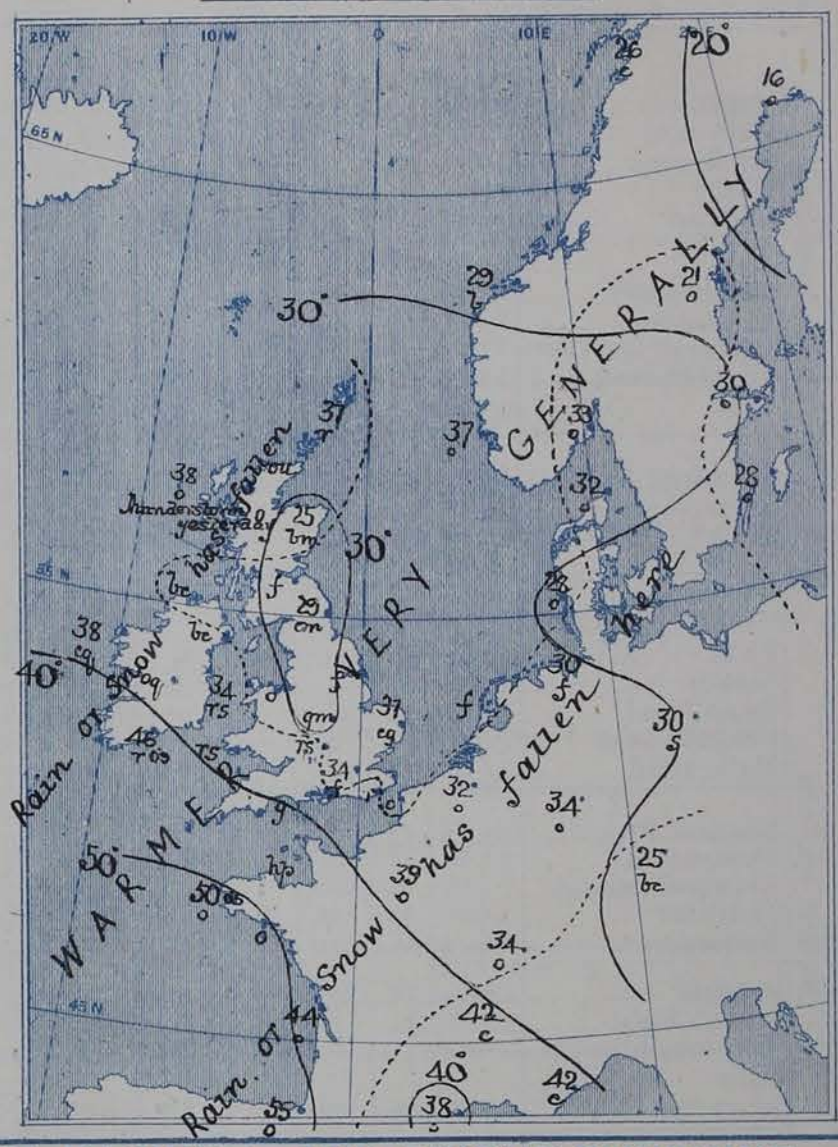


TEMPERATURE AND WEATHER.

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, 29·9 in: and upwards in Sweden; 29·8 in: and upwards in South Germany.
Lowest, 28·9 in: and less, in a deep depression with its centre off the south of Ireland.
Gradients steep over the western parts of our Islands and France, moderate or slight elsewhere.
Barometer falling briskly in the west and south of our Islands and to a less extent in France and Scandinavia, rising elsewhere.

TEMPERATURE

Highest, 55° at Biarritz, 51° at Lorient, 50° at Brest, and 46° at Roche's Point, Jersey, and Portland Bill.
Lowest, (1) 16° at Haparanda, 21° at Hernosand, and 26° at Bodö; (2) 23° at Leith and 25° at Aberdeen and Loughborough; (3) 25° at Mermid.
Sharp frost occurred last night in many parts of Great Britain, the lowest temperatures reported being 19° at Leith, 21° at Yarmouth, and 22° at Loughborough and Oxford.

WIND

E^ly or SE^ly over Western Europe as a whole, and strong to a gale in force on all our more southwest coasts.
Light from the W^rd or SW^rd on the northeast coasts of Great Britain.

WEATHER

Fine in the north of Ireland and fair on the east coasts of Great Britain, but dull in nearly all other parts of our area, with rain or sleet at several of our more western and southern stations. Rain is also falling in the Shetlands and snow at Karlstad and Berlin.
Since yesterday morning rain or snow has fallen in many parts of Western Europe the largest amounts being 0·9 in: at Roche's Point and 0·5 in: at Brest. Thunder and lightning occurred yesterday at Stornoway and thunder only at Nairn.

SEA

Rough on our south and southwest coasts generally, as well as off the northeast of Scotland, rather rough off the northwest of France.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

In the course of the past night a deep depression has advanced suddenly to our extreme southwest coasts, where the barometer is now falling very quickly. The disturbance seems likely to move in an easterly or a southeasterly direction, and the wind will probably increase to a gale from the E^rd on many parts of the English and Irish coasts.

FORECASTS

For the 24 hours ending at NOON on 29TH DECEMBER 1899.

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	E^ly winds, increasing in force; dull, some snow or cold rain.
1	SCOTLAND EAST	Wind shifting to the E^rd & increasing in force; fair at first, some snow later.
2	ENGLAND N.E.	
▲ 3	ENGLAND EAST	SE^ly to E^ly winds, strong to a gale; unsettled, some cold rain or sleet.
4	MIDLAND COUNTIES	
▲ 5	ENGLAND SOUTH	

DISTRICTS.		FORECASTS.
6	SCOTLAND WEST	Same as Nos 1 and 2.
▲ 7	ENGLAND N.W.	Same as No. 0.
▲ 8	ENGLAND S.W.	SE^ly to E^ly gales and strong winds; squally, some cold rain or sleet.
▲ 9	IRELAND NORTH	E^ly winds, strong to a gale; fair at first, some snow later.
▲ 10	IRELAND SOUTH	E^ly to NE^ly gales and strong winds; squally, some cold rain or sleet.
	WARNINGS	At 10·20 am. to districts 3. 5. and 7 to 10 "Hoist North Cone."

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Skudesnaes ...	29.57	37	34	ESE	6	c	4
Sumburgh Head	29.54	34	34	ENE	4	o	5
Stornoway... ..	29.57	34	33	NNW	3	c	3
Aberdeen	29.43	34	33	NW	5	cqsp	5
Shields	29.46	34	32	N	2	b	2
Malin Head ...	29.49	39	38	S	1	bc	2
Blacksod Pt.. ...	29.48	39	36	SE	1	b	1
Holyhead	29.51	37	36	SE	1	c	1
Valencia	29.40	37	33	NE	4	cv	4
Scilly							
Jersey	29.50	46	41	SW	2	bc	2
Portland Bill ...	29.51	34	33	NNE	1	bm	2
Dungeness ...	29.51	34	33	N	2	c	2
London (Westminster)	29.51	30	30	NNW	1	fg	*
Yarmouth ...	29.46	28	27	WNW	2	f	4
Rochefort ...	29.57	47	45	W	2	o	*

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

Weather in morning dull over Europe as a whole, with fog in many parts of England and rain over France and northern Italy; snow reported on some parts of our own north and northwest coasts, as well over the Netherlands and in many parts of Sweden, Denmark, Russia and Austria. Fine in Ireland and also on the west coasts of France and Norway. Snow falling during day in the north of Scotland and rain setting in during night on our own southwest coasts. Thunder and lightning occurring at Stornoway and thunder only at Nairn.

Temperature risen in the northern parts of our Islands and the Continent, as well as in France and Austria, fallen elsewhere. Morning readings highest 57° at Oran and 56° at Algiers and La Calle; above 50° at several of the Mediterranean stations. Lowest −8 F. at Archangel, −1° at St Petersburg, and 0° Zero at Kiew; considerably below the freezing point over northern and central Europe generally and also over the central parts of England and Ireland. Daily maxima below 35° at several of our eastern and central stations, thermometer at Loughborough not exceeding 28°. Sharp frost occurring over Great Britain at night.

Wind light from the NE^{ed} in the south of our Islands; variable on our northwest coasts, light from the W^{n} or NW^{rn} over the eastern and central parts of Great Britain. S^{3} or SW^{3} over France and the Netherlands, SE^{3} over Germany, Denmark, Russia and Sweden. E^{3} in Norway. Variable over Italy; E^{3} in the extreme south of France; no important change occurring over Western Europe during day.

Barometer highest 30·8 ins: and upwards over northern and central Russia, 30·1 ins: and upwards in an anticyclone lying over Eastern Europe generally. Lowest 29·5 ins: and less, in a large shallow depression covering the whole of our Islands, the North Sea, the Netherlands, and the north of France. Depression filling up gradually during day, but new disturbance beginning to approach the south of Ireland 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.

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 Friday, 29th 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	29.80	24	SW	4	3	29.92	-.03	15	14	-1	SSE	4	0	*	S	*	25	7	0.04
	Hernösand	29.83	30	SW	2	S	29.72	-.27	30	28	+9	S	4	m	*	S	*	32	9	0.20
	Stockholm	29.73	29	SE	2	0	29.67	-.30	33	33	+3	ESE	2	0	*	0	*	33	28	0.08
	Wisby	29.69	31	SSE	4	S	29.68	-.23	33	32	+5	S	4	0	*	S	*	33	25	0.16
	Karlstad	29.67	29	NE	2	0	29.61	-.26	29	28	-1	ENE	2	0	*	0	*	*	*	0.08
	Bodö	29.73	27	E	4	0	29.50	-.24	27	23	+1	E	4	bc	1	0	*	28	21	-
	Christiansund ...	29.54	34	ESE	2	0	29.43	-.37	34	31	+5	ESE	2	c	4	0	*	34	25	-
	Skudesnaes ...	29.60	36	SE	4	0	29.30	-.44	36	32	-1	ESE	6	0	4	0	*	37	34	*
	Færder (X'iania Fjord)	29.63	32	ENE	1	0	29.53	-.35	32	32	-1	E	4	0	2	0	*	33	30	0.04
	The Scaw (Skagen)	29.61	32	SE	1	0	29.48	-.28	32	32	0	SE	2	0	0	0	*	36	30	0.04
	Fanö	29.63	30	NNW	1	0	29.21	-.48	32	32	+4	E	6	S	*	0	*	32	28	-
British Islands	Sumburgh Head ...	29.50	35	NNE	1	0	29.09	-.56	39	37	+2	ESE	3	0	5	c.o	*	40	33	0.17
	Stornoway	29.42	39	E	4	b	28.93	-.64	38	36	0	E	4	c	4	c.b	1.4	41	31	0.10
	Wick	29.45	30	E	2	bc	28.94	-.59	38	37	-2	SE	1	ru	6	bc	*	42	34	0.10
	Nairn	29.43	27	E	0	bc	28.87	-.62	35	34	+4	ESE	3	0	2	bc	*	37	21	0.24
	Aberdeen	29.43	30	W	2	ogmS	28.82	-.75	38	37	+13	E	8	ogqr	7	bc.gmS	0.0	39	23	0.20
	Leith	29.33	35	E	2	r	28.65	-.90	40	39	+17	E	3	c	*	r	*	40	21	0.20
	Shields	29.27	38	E	6	r	28.67	-.91	40	40	+11	ESE	3	r	4	o,r	*	40	29	0.80
	Spurn Head ...	29.22	40	ESE	7	r	28.71	-.85	41	40	+5	SSE	5	bc	6	rq	*	45	36	0.57
	Loughborough ...	29.14	38	E	3	r	28.64	-.91	44	43	+19	S	3	O	*	g.srq.o	*	44	25	0.32
	Malin Head ...	29.11	38	E	7	ogm	28.57	-.88	39	39	+1	NE	6	0	4	o.gmr	*	39	32	0.30
	Blacksod Pt. ...														*		*			
	Donaghadee ...	29.08	38	SE	8	ru	28.55	-.93	41	41	+3	SE	6	rq	6	r	*	41	37	0.80
	Liverpool (Bidston)	29.01	35	ENE	6	r	28.52	-.93	42	41	+12	E	4	r	?	S.r	*	48	30	0.60
	Holyhead	28.91	39	ENE	8	qmr	28.43	-.94	43	43	+9	ENE	5	gmr	4	2m.rqm	*	43	32	0.59
	Parsonstown ...	28.78	37	NE	1	o	28.40	-.76	39	38	+3	N	1	o	*	rsq.or	0.0	41	33	0.62
	Valencia	28.58	41	ENE	5	b	28.43	-.33	43	41	+7	N	7	qr	5	o.b.r	0.1	43	35	0.66
	Roche's Point ...	28.64	49	SSE	6	b	28.29	-.57	45	44	-1	N	5	c	5	llh.rsql	*	49	43	1.58
	Pembroke (St. Ann's Hd.)	28.79	44	SSE	6	bc	28.29	-.78	49	48	+10	S	4	cu	5	or.bc	0.0	49	39	1.00
	Scilly																			
	Jersey (St. Aubin's) ...	29.03	49	SSE	7	cp	28.71	-.57	49	46	+3	SSE	7	olp	5	op.lhr	*	49	46	0.04
	Portland Bill ...	28.94	48	SSE	8	o	28.52	-.76	48	47	+2	S	8	or	7	o.or	*	50	43	0.21
	Dungeness	29.18	44	SSE	7	r	28.84	-.70	48	46	+7	SW	8	c	7	o,r	*	48	40	0.17
	London (Brixton) ...	29.14	42	SE	5	or	28.74	-.76	48	45	+14	S	6	O	*	og.rq	0.0	48	33	0.16
	Oxford	29.00	43	E	3	o	28.62	-.83	48	45	+15	SSE	3	O	*	o.or	*	49	33	0.07
	Yarmouth	29.35	40	ESE	6	c	28.83	-.75	44	43	+7	SSE	5	c	5	o.cgq	*	44	35	0.15
France & Netherlands. Germany.	Cuxhaven	29.64	28	SW	1	f	29.20	-.50	34	32	+4	SE	4	o	*	f	*	34	28	0.04
	Berlin	29.73	33	SE	3	o	29.51	-.24	30	28	0	SE	3	c	*	o	*	34	28	-
	Wiesbaden	*	*	*	*	*	29.36	-.44	35	34	+1	E	2	r	*	*	*	39	34	-
	Munich	29.65	27	E	3	bc	29.47	-.38	28	27	+3	SE	4	c	*	bc	*	36	21	-
	The Helder ...	29.46	33	ESE	3	m	28.99	-.70	38	38	+10	S	3	O	2	O	*	39	28	0.12
	Brussels	*	*	*	*	*									*		*			
	C. Gris Nez ...	29.28	39	SE	5	r	28.92	-.65	44	42	+10	S	6	O	6	r	*	44	32	0.16
	Paris	29.30	44	SE	4	bc	29.12	-.49	45	42	+6	S	4	r	*	bc	*	46	39	0.20
	Brest	28.83	50	S	6	r	28.54	-.48	51	50	+1	S	7	c	8	r	*	50	45	0.51
	Lorient	28.95	50	SW	6	o	28.71	-.44	52	48	+1	SW	4	O	8	O	*	54	46	0.24
	Rochefort	29.26	48	SW	3	r	29.13	-.26	52	48	+8	SW	8	O	*	O,r	*	52	41	0.39
	Belfort	29.58	37	NE	5	O	29.48	-.32	38	37	+4	SW	3	r	*	O	*	42	33	0.35
	Lyons	29.52	48	S	6	O	29.42	-.31	45	40	+3	SW	5	r	*	O	*	53	41	0.87
	Nice	29.89	43	E	2	r	29.76	-.02	46	45	+4	E	1	r	3	r	*	46	42	0.47
	Perpignan	29.56	?	S	4	O	29.47	-.19	48	47	+10	SW	2	b	*	a	*	56	48	-
	Biarritz	29.24	62	S	8	c	29.33	-.10	55	48	0	S	6	b	4	c	*	?	52	0.08
Span. Pen.	Corunna														*		*			
	Lisbon	29.68	55	WSW	5	b	29.79	+.27	55	50	-3	WSW	5	b	*	b	*	61	52	0.35
	Azores (P. Delgada)	29.91	54	NNW	4	b	29.76	-.07	59	56	+7	SW	6	c	6	b	*	59	50	-

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 recorded on the Tower of the Wesleyan Training College, Westminster*

Bright Sunshine yesterday Southport 0·0 hrs.

WEATHER CHARTS

FOR Friday, 29th December, 1899.

BAROMETER, WIND AND SEA.

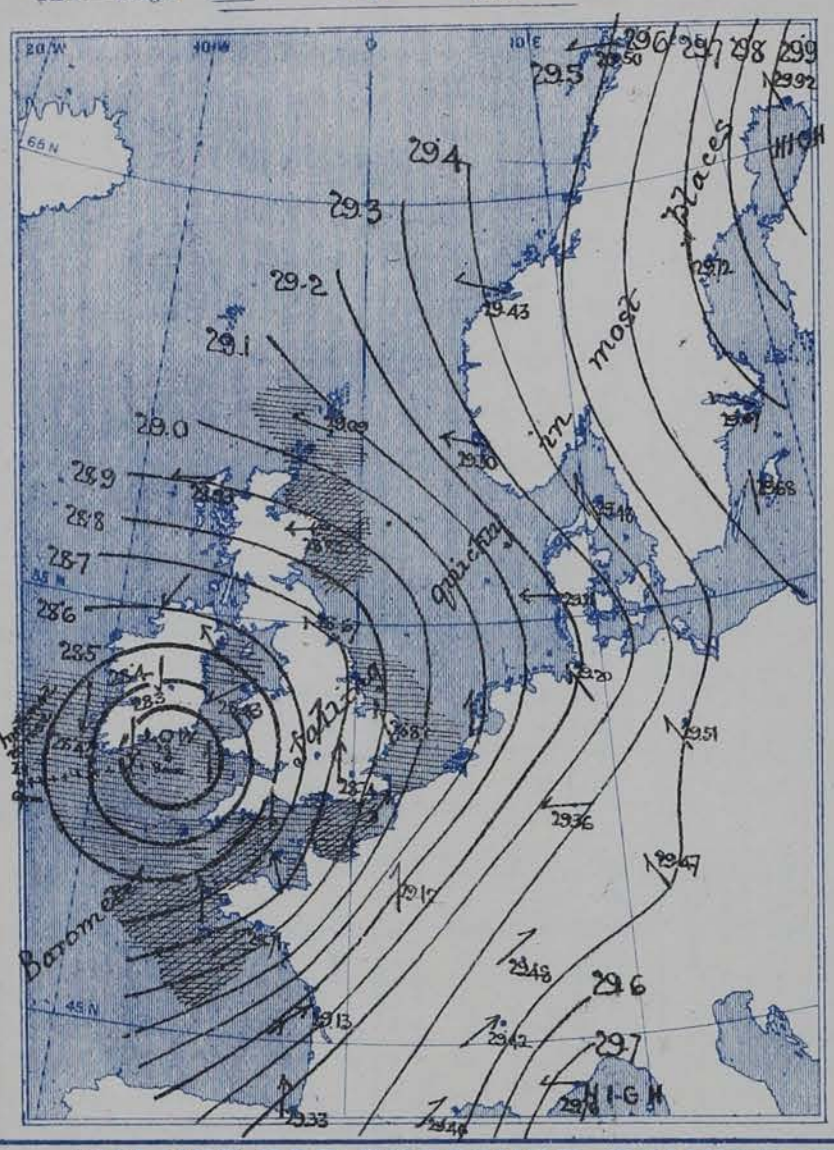
BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show 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*

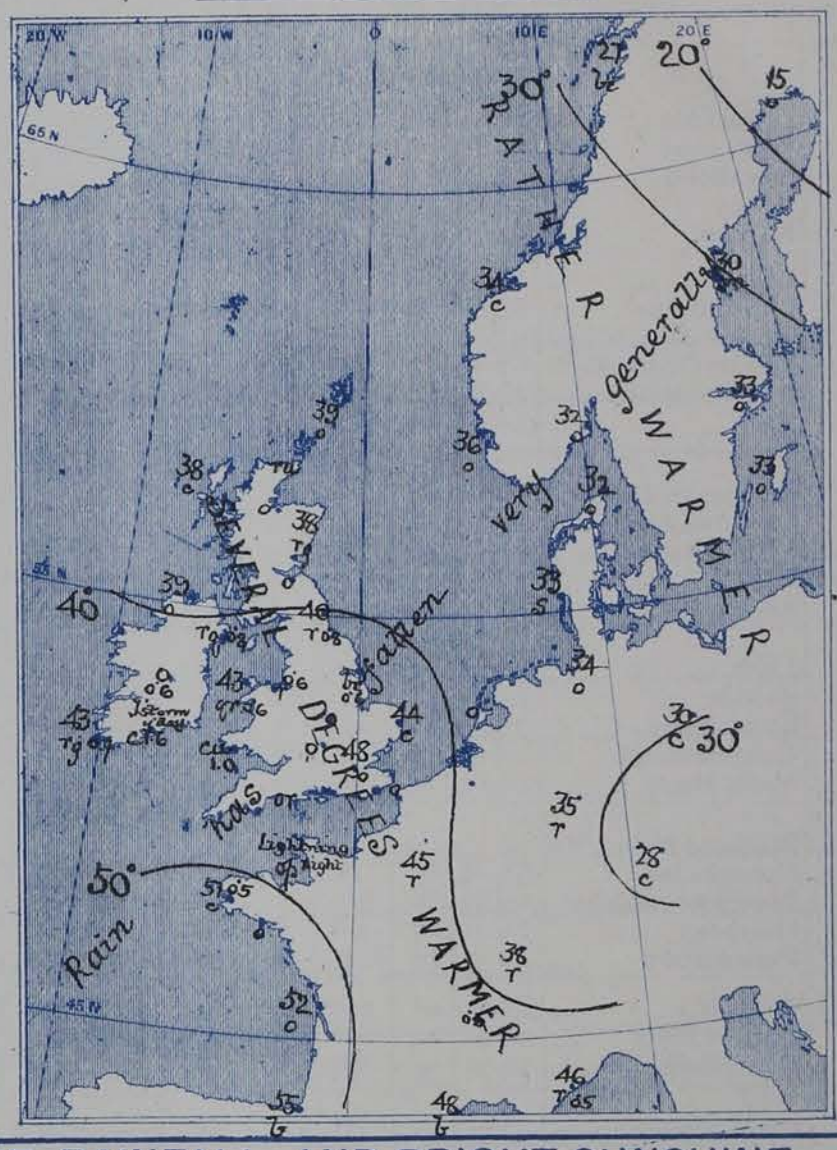


TEMPERATURE AND WEATHER.

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.	TEMPERATURE OF AIR. 1871–95.								RAINFALL	BRIGHT SUNSHINE,	
		Means of				Absolute Extremes.						
	Means, 1871–95.	Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum.	Years.	Minimum.	Years.	Means, 1866—95.	Means, 1881—95. 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 29.9 ins. and upwards in the N. of Sweden; 29.7 ins. and upwards in the extreme S. of France.
Lowest 28.3 ins. and less in a deep depression with its centre near the mouth of the St. George's Channel.
Gradients steep over the Channel and the N. and W. of France and rather steep over W^rn. Europe generally.
Barometer falling generally, - quickly in most parts of Gt. Britain, but inclined to rise again at Valencia (Ireland).

TEMPERATURE

Highest 55° at Biarritz, 52° at Lorient and Rochefort, 51° at Brest, and 49° at Pembroke & Jersey.
Lowest (1) 15° at Haparanda, 29° at Karlstad, and 30° at Hernösand, (2) 28° at Munich, and 30° at Berlin; lowest in our Islands 35° at Nairn.
A considerable rise has taken place over Gt. Britain, the change since yesterday morning amounting to 17° at Leith, and 19° at Loughborough.

WIND

Strong to a gale from the S^wd. or SW^wd. over the south of England and the greater part of France.
Strong from the SE^wd. in the east of England, and light to moderate from the same quarter in Denmark and Germany.
Strong to a gale from the E^wd. on our northern coasts, and from the N^wd. in the south of Ireland.

WEATHER

Dull and squally over W^rn. Europe generally, with rain in many parts of our Islands, France and W^rn. Germany, and snow at Fano.
Since yesterday morning rain has fallen over the whole of our Islands, France and the Netherlands, the largest amounts being 1.6 in. at Rockle Pt., 1.0 in. at Pembroke, 0.9 in. at Lyons, and 0.8 in. at Shields and Donaghadee. Thunder and lightning occurred yesterday at Rockle Pt., and lightning was seen at night both there and at Jersey.

SEA

High in the Channel and at Aberdeen, and rough or rather so on nearly all parts of our own and the French coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The deep depression noticed yesterday off the W. of Ireland has advanced slowly E^wds. and now has its centre near the mouth of the St. George's Channel. The disturbance will probably advance shortly over England, and the wind on our S^rn. coasts is likely to veer to the SW^wd. or W^wd., with some improvement in the weather.

FORECASTS

For the 24 hours ending at NOON on 30TH DECEMBER 1899.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	E^rly gales and strong winds; squally, rainy.	6 SCOTLAND WEST	Same as Nos. 0 and 1.
1 SCOTLAND EAST		7 ENGLAND N.W.	E^rly and NE^rly winds, strong a gale in places; squally, rainy.
2 ENGLAND N.E.	SE^rly winds, strong a gale in places, rain at times.	8 ENGLAND S.W.	SW^rly to W^rly gales and strong winds; squally, showery.
3 ENGLAND EAST	S^rly to SW^rly gales and strong winds; squally, showery.	9 IRELAND NORTH	Same as No. 7.
4 MIDLAND COUNTIES		10 IRELAND SOUTH	N^rly gales or strong winds; squally, showery.
5 ENGLAND SOUTH		WARNINGS	At 3·30 pm yesterday to districts 1 and 2, and at 7.10 pm to districts 0 and 6. Hoist North Cone. The Signals are now flying on all coasts.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Skudesnaes ...	29.69	36	34	S	2	c	3
Sumburgh Head	29.59	39	38	E	1	c	5
Stornoway... ...	29.50	41	39	E	5	c	5
Aberdeen	29.53	27	26	W	2	o q m	3
Shields	29.47	38	35	SE	3	o	2
Malin Head ...	29.27	38	36	E	6	o	5
Blacksod Pt.. ...	29.99	36	35	ENE	10	sq	8
Holyhead	29.10	35	35	ENE	8	q mr	6
Valencia	28.64	42	40	ENE	5	o	4
Scilly							
Jersey	29.11	48	44	SE	8	o	6
Portland Bill ...	29.10	46	44	SSE	7	o r	6
Dungeness ...	29.34	44	42	SSE	6	o	7
London (Westminster)	29.28	43	41	SE	4	o q f	*
Yarmouth ...	29.42	40	39	SE	6	o	5
Rochefort ...	29.23	48	45	SE	5	o	*

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 30th 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	30·01	19	SW	2	o	29·97	+·05	13	12	— 2	S	2	o	•	o	•	25	13	—
	Hernösand	29·75	30	NE	4	s	29·66	—·06	27	26	— 3	NE	6	s	•	s	•	32	25	032
	Stockholm	29·59	34	SE	4	o	29·49	—·18	34	34	+ 1	SE	2	o	•	o	•	36	28	024
	Wisby	29·54	34	SSE	4	o	29·46	—·22	35	35	+ 2	S	4	o	•	o	•	35	27	004
	Karlstad	29·36	31	ESE	6	s	29·31	—·30	33	33	+ 4	ESE	2	s	•	s	•	•	•	032
	Bodö	29·67	28	E	2	b	29·59	+·09	29	27	+ 2	E	5	c	2	b	•	29	23	—
	Christiansund ...	29·20	35	ESE	2	bc	29·10	—·33	38	32	+ 4	ESE	2	b	3	bc	•	38	30	—
	Skudesnaes ...	28·98	40	E	8	o	28·82	—·48	44	39	+ 8	SE	6	o	5	rs,o	•	45	34	•
	Færder (X'iania Fjord)																•			
	The Scaw (Skugen)	29·16	?32	SE	6	s	29·11	—·37	36	36	+ 4	SSE	3	r	o	s	•	36	32	028
	Fanö	29·07	34	SSE	5	r	29·00	—·21	37	37	+ 5	SSE	6	c	•	r	•	37	32	016
British Islands	Sumburgh Head ...	28·84	35	E	7	r	28·69	—·40	43	42	+ 4	E	5	r	7	o,r	•	43	35	048
	Stornoway	28·69	40	ESE	6	o	28·52	—·41	44	43	+ 6	E	4	o	4	d,o	0·0	44	36	045
	Wick	28·61	40	E	8	r	28·58	—·36	45	44	+ 7	E	7	ow	8	r	•	45	36	050
	Nairn	28·56	40	E	3	c	28·52	—·35	37	36	+ 2	E	1	o	1	c	•	41	32	011
	Aberdeen	28·55	43	ESE	4	ogq	28·51	—·31	41	40	+ 3	? E	3	ogp	6	rgq,og	0·0	44	38	035
	Leith	28·45	41	E	3	r	28·49	—·16	39	39	— 1	L	0	f	•	r	•	42	37	006
	Shields	28·44	43	SE	3	op	28·52	—·15	42	41	+ 2	SW	3	c	3	r,o	•	43	37	010
	Spurn Head ...	28·47	42	SE	6	c	28·73	+·02	43	42	+ 2	SW	7	cqu	6	r,c	•	45	40	014
	Loughborough ...	28·39	45	SSE	3	o	28·83	+·49	44	40	o	W	7	oq	•	r.c.opq	•	48	42	050
	Malin Head ...	28·44	41	NE	6	r	28·49	—·08	42	42	+ 3	WNW	5	r	5	or	•	42	39	020
	Blacksod Pt.. ...	28·55	41	NNE	5	c	28·82	+·22	40	38	— 1	NNW	6	cpq	6	cpq,c	•	42	37	053
	Donaghadee ...	28·34	45	E	5	d	28·56	+·01	39	38	— 2	NW	3	b	3	r,d	•	46	37	077
	Liverpool (Bidston)	28·35	44	ESE	3	c	28·74	+·22	41	39	— 1	SW	4	o	3	cm	•	46	40	008
	Holyhead	28·31	44	SE	1	o	28·73	+·30	43	42	o	WSW	7	oq	6	c,omp.	•	47	41	058
	Parsonstown ...	28·49	38	NW	1	o	28·86	+·46	40	38	+ 1	W	1	o	•	o	0·0	40	37	007
	Valencia	28·64	45	WNW	5	ogq	29·06	+·63	43	37	o	W	7	bc	6	cq,ogq	0·4	45	37	010
	Roche's Point ...	28·54	41	NNW	6	o	29·00	+·71	40	38	— 5	NW	5	bc	4	o,rq	•	46	36	035
	Pembroke (St. Ann's Hd.)	28·36	47	WNW	5	r	28·93	+·64	43	42	— 6	WSW	8	cpq	6	r	0·0	49	42	052
	Scilly																			
	Jersey (St. Aubin's) ...	28·68	50	W	7	cp	29·25	+·54	48	44	— 1	SW	5	bcm	5	rm,rq	•	52	45	038
France & Netherlands. Germany.	Portland Bill ...	28·47	49	WSW	8	c	29·66	+·54	48	45	o	W	8	bc	7	op,c	•	49	44	014
	Dungeness	28·58	50	SSW	9	rq	29·11	+·27	50	45	+ 2	W	7	cq	7	rq	•	50	39	063
	London (Brixton) ...	28·46	50	SSW	6	o	29·06	+·32	45	40	— 3	WSW	5	b	•	orq,o,b	0·0	50	43	049
	Oxford	28·42	47	SW	6	o	28·99	+·37	43	39	— 5	SW	5	b	•	orq,o	•	49	42	012
	Yarmouth	28·62	45	SSE	7	rgq	28·94	+·11	44	40	o	SSW	5	b	5	o,rgq	•	46	41	043
	Cuxhaven	29·12	36	S	4	o	29·10	—·10	43	42	+ 9	S	5	o	•	r,o	•	43	34	020
	Berlin	29·40	35	SSE	2	o	29·46	—·05	37	36	+ 7	SSE	2	o	•	o	•	37	30	—
	Wiesbaden	•	•	•	•	•	29·50	+·14	42	41	+ 7	SW	3	o	•	•	•	42	35	008
	Munich	29·60	35	SE	4	r	29·74	+·27	33	33	+ 5	SE	3	bc	•	r	•	43	28	032
	The Helder ...	28·84	43	SSE	4	o	28·98	—·01	43	41	+ 5	SSW	7	bc	6	o	•	48	38	012
	Brussels	•	•	•	•	•									•		•			
	C. Gris Nez ...	28·69	46	SW	8	r	29·16	+·24	47	44	+ 3	WSW	7	o	7	r	•	50	34	020
	Paris	29·04	49	SSW	6	o	29·44	+·32	45	43	o	SSW	5	o	•	o	•	53	45	—
	Brest	28·79	51	W	5	c	29·23	+·69	48	47	— 3	W	5	c	5	c	•	52	43	020
	Lorient	29·90	51	W	7	r	29·37	+·66	50	50	— 2	W	3	o	7	r	•	54	48	032
	Rochefort	29·21	50	WNW	10	r	29·63	+·40	51	49	— 1	WSW	6	r	•	r	•	55	48	071
	Belfort	29·41	37	ENE	2	bc	29·68	+·20	44	42	+ 6	SW	7	s	•	bc	•	44	35	079
	Lyons	29·47	35	S	3	b	29·84	+·42	41	37	— 4	S	3	m	•	br	•	55	42	012
	Nice	29·62	49	WNW	4	bc	29·84	+·08	50	42	+ 4	E	2	b	2	bc	•	54	36	043
	Perpignan	29·60	51	SW	2	b	29·90	+·43	39	35	— 9	SW	1	o	•	b	•	65	37	—
	Biarritz	29·47	57	SW	8	b	29·71	+·38	54	48	— 1	S	4	b	5	b	•	59	50	—
Span. Pen.	Corunna																			
	Lisbon	29·92	54	S	3	o	29·82	+·03	58	55	+ 3	SSW	5	c	•	o	•	59	54	016
	Azores (P. Delgada)	29·52	55	WSW	6	r	29·79	+·03	52	49	— 7	NNW	3	c	3	r	•	64	48	032

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 recorded on the Tower of the Wesleyan Training College, Westminster*

Bright Sunshine yesterday Southport 0·0 *hrs.*

WEATHER CHARTS

FOR Saturday, 30th December, 1899.

BAROMETER, WIND AND SEA.

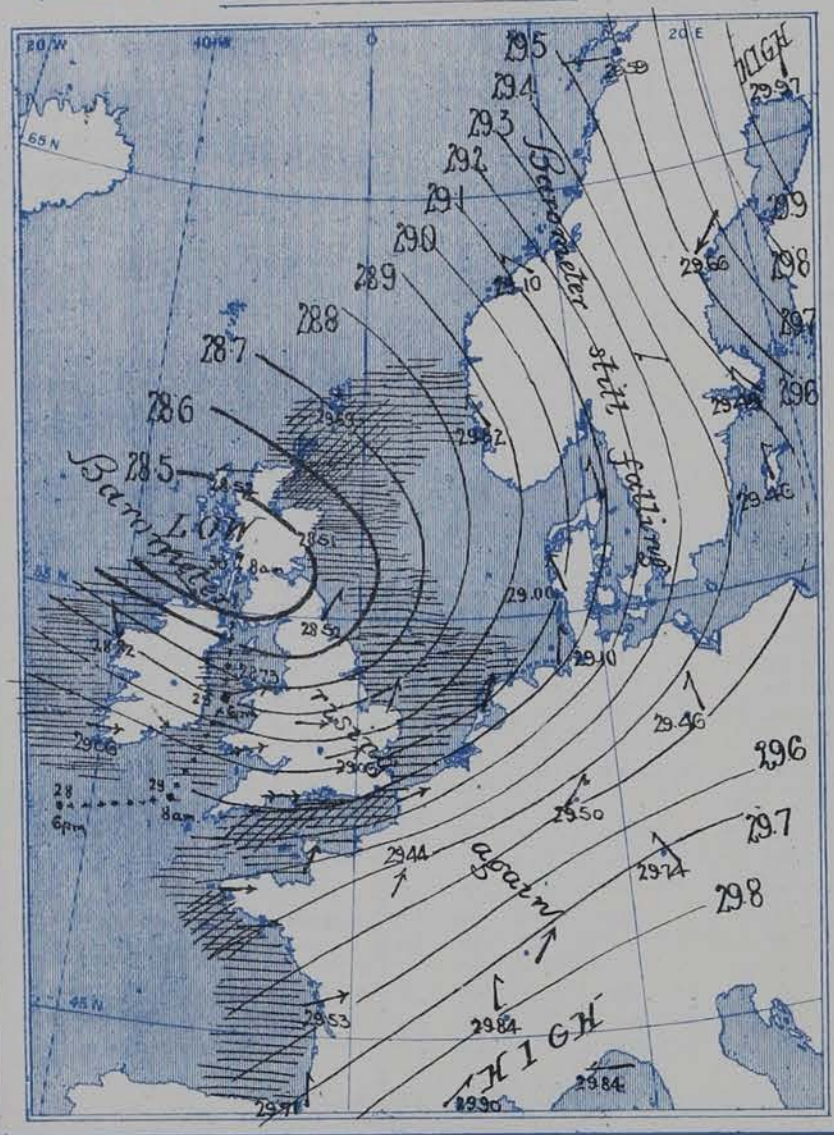
BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show 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* ▓

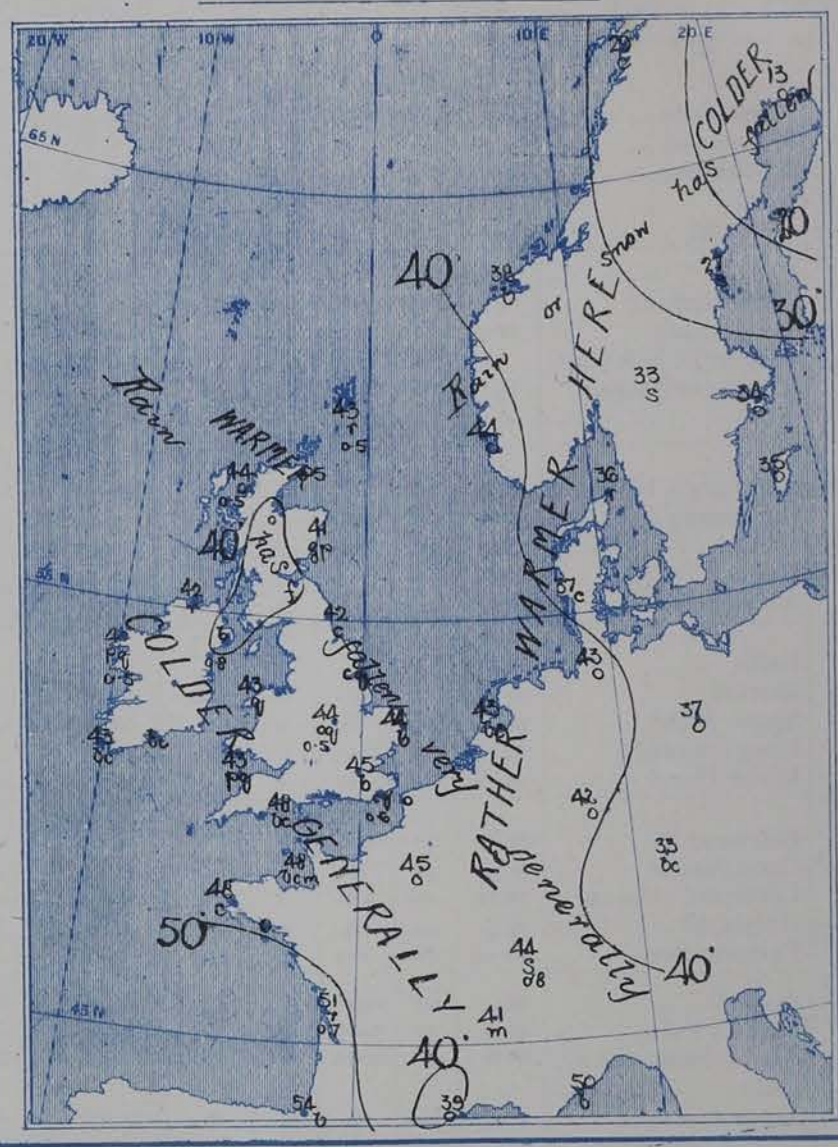


TEMPERATURE AND WEATHER.

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 Westminste.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 29.9 ins. and upwards in Lapland; 29.8 ins. and less over Spain & the S.W. parts of France.
Lowest 28.5 ins. and less in a depression with its centre over the W. of Scotland.
Gradients steep or rather so over W.rn Europe generally.
Barometer rising at all but the Scandinavian and Danish stations

TEMPERATURE

Highest 58° at Lisbon, 54° at Biarritz, 51° at Rochefort, and 50° at Dungeness and Lorient.
Lowest 13° at Haparanda, 27° at Hernösand, 29° at Bodo, & 31° at Stockholm; lowest in our Islands 37° at Nairn.
During yesterday the thermometer rose to 45° and upwards in most parts of England and Ireland to 50° in London and at Dungeness, and to 52° at Jersey.

WIND

Strong from the NW.wd. in Ireland, and from the SW.wd. over England and the north of France, with a gale at some stations in the English and Bristol Channels.
Light to moderate from the SW.wd. or SE.wd. over the south of France and also in Germany and Denmark; E.ly in Scandinavia and the north of Scotland, with a moderate gale at Wick.

WEATHER

Fine over the S.rn parts of our Islands and also in the Netherlands, but cloudy or dull over W.rn Europe as a whole. Showers were falling in some parts of Scotland and the N. of Ireland, steady rain at Rochefort and also at Skagen and snow at Hernösand, Karlstad & Belfort.
Rain fell yesterday over nearly the whole of W.rn Europe, the largest amounts reported being 0.8 in. at Donaghadee and Belfort, 0.7 in. at Rochefort, and 0.6 in. at Holyhead and Dungeness.

SEA

Very high at Wick, high off the N. of Scotland generally as well as in the Channel and the Bay of Biscay, and rough or rather so in nearly all other localities.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression recently noticed in the W. has moved northwards and now has its centre over the W. of Scotland. It seems not unlikely that the system will shortly pass away over the Atlantic. For the present, however, the weather will probably remain in a somewhat unsettled state, with showers in many districts.

FORECASTS

For the 24 hours ending at NOON on 31ST DECEMBER 1899.

DISTRICTS.		FORECASTS.
↑ 0	SCOTLAND NORTH	E.ly winds, strong in places, dull, some rain.
↑ 1	SCOTLAND EAST	SE.ly and S.ly winds, moderate, cloudy and showery at first, then fair.
↑ 2	ENGLAND N.E.	
3	ENGLAND EAST	Same as No. 5.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	SW.ly and W.ly winds, strong in places, changeable, some showers, colder.
↑ 6	SCOTLAND WEST	W.ly winds, strong in places; squally, some showers.
7	ENGLAND N.W.	
8	ENGLAND S.W.	
9	IRELAND NORTH	NW.ly to W.ly or SW.ly winds, strong; squally, showery.
10	IRELAND SOUTH	
	WARNINGS	The Signals are still flying in districts 0 to 2 and 6.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Skudesnaes ...	29.10	38	33	ESE	6	ors	4
Sumburgh Head	28.92	38	36	ESE	5	o	6
Stornoway... ...	28.76	40	38	ESE	5	o	5
Aberdeen	28.60	42	41	E	8	orgq	7
Shields	28.53	43	43	SE	3	cp	1
Malin Head ...	28.46	40	40	NE	6	o	5
Blacksod Pt.. ...	28.55	41	40	NNE	5	cpq	*
Holyhead	28.31	47	47	SE	2	c	2
Valencia	28.54	45	41	NNW	5	cq	5
Scilly							
Jersey	28.53	50	48	S	8	rsw	6
Portland Bill ...	28.40	47	45	S	9	op	8
Dungeness ...	28.72	50	47	SSW	8	c	7
London (Westminster)	28.59	49	46	SSW	7	orq	*
Yarmouth ...	28.72	45	43	SSE	6	o	5
Rochefort ...	29.13	54	50	SW	10	o	*

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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" Weekly " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Sunday 31st 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.)					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	29.88	16	E	4	s	29.90	−.17	16	15	+ 3	E	2	o	*	s	*	19	9	0.16
	Hernösand	29.60	31	NE	2	o	29.66	.00	30	28	+ 3	NE	4	o	*	o	*	32	21	0.27
	Stockholm	29.51	38	SE	2	r	29.63	+.14	36	36	+ 2	SSE	2	f	*	r	*	38	32	0.08
	Wisby	29.64	37	S	4	o	29.66	+.20	38	37	+ 3	S	4	o	*	o	*	38	30	0.04
	Karlstad	29.36	36	SSE	4	o	29.49	+.18	37	36	+ 4	S	2	o	*	o	*	*	*	0.35
	Bodö	29.10	26	E	6	o	29.58	−.01	26	23	− 3	E	6	bc	2	o	*	29	23	—
	Christiansund ...	29.04	45	ESE	4	bc	29.21	+.11	42	37	+ 4	ESE	1	bc	4	bc	*	45	34	—
	Skudesnaes ...	28.88	42	ESE	8	r	29.18	+.36	42	40	− 2	SSE	6	o	5	r	*	44	41	*
	Færder (X'iania Fjord)																			
	The Scaw (Skagen)	29.35	37	S	4	o	29.42	+.31	37	36	+ 1	SW	1	o	o	o	*	37	36	0.12
	Fanö	29.31	37	SW	5	o	29.41	+.41	35	35	− 2	S	3	b	*	o	*	39	35	—
British Islands	Sumburgh Head ...	28.63	42	ENE	8	o	28.89	+.20	43	42	0	SE	3	o	7	o	*	45	40	0.85
	Stornoway	28.66	44	E	5	r	29.06	+.54	43	41	− 1	NE	4	o	4	r	0.0	45	39	0.30
	Wick	28.58	44	E	7	r	28.84	+.26	44	43	− 1	NNW	4	o	4	r	*	45	40	0.80
	Nairn	28.64	37	E	2	o	28.95	+.43	40	40	+ 3	W	2	o	2	r	*	41	35	0.32
	Aberdeen	28.62	40	SW	2	o g	28.90	+.39	40	38	− 1	SW	5	cpq	4	o	0.6	42	36	0.01
	Leith	28.69	40	SW	3	bc	29.12	+.63	41	37	+ 2	WSW	5	o	*	bc	*	44	37	0.06
	Shields	28.83	42	SW	5	cq	29.31	+.19	41	37	− 1	SW	5	c	2	r. cq	*	44	37	0.01
	Spurn Head ...	29.07	40	SSW	6	r	29.44	+.71	36	36	− 7	SW	5	b	4	r	*	43	35	—
	Loughborough ...	29.14	39	WSW	3	b	29.51	+.68	36	34	− 8	WSW	4	bv	*	b	*	47	34	—
	Malin Head ...	28.62	40	WNW	8	r	29.22	+.73	40	37	− 2	SW	6	bc	5	r	*	42	39	0.29
	Blacksod Pt. ...	28.96	42	NW	6	bc	29.25	+.43	41	36	+ 1	WNW	4	bcp	*	c.bc	*	43	36	0.18
	Donaghadee ...	28.78	39	W	4	o	29.31	+.75	35	35	− 4	WNW	4	b	3	p.c	*	45	33	0.05
	Liverpool (Bidston)	29.02	38	SSW	4	b	29.47	+.79	35	34	− 6	SSW	2	b	3	p.b	*	44	35	0.06
	Holyhead ...	28.97	41	WSW	8	cqc	29.44	+.71	40	37	− 3	WSW	4	bc	3	cqc	*	45	37	0.12
	Parsonstown ...	29.02	35	W	1	o	29.44	+.58	30	29	− 10	S	1	c	*	b. os	4.3	42	29	—
	Valencia	29.16	44	W	6	cq	29.41	+.35	35	34	− 8	SE	2	bc	3	sp. cq	2.3	44	32	0.09
	Roche's Point ...	29.14	39	WNW	3	bc	29.45	+.46	36	34	− 4	N	1	bc	3	bc		44	33	—
	Pembroke (St. Ann's Hd.)	29.10	46	W	6	bc	29.50	+.57	44	41	+ 1	SW	4	rw	5	bc	2.8	47	41	0.05
	Scilly	29.23	48	WNW	5	c	29.47	+.21	44	43	− 3	SSW	5	cp	3	cp. c	4.0	47	42	0.10
	Jersey (St. Aubin's) ...	29.33	47	WSW	5	o	29.78	+.53	46	44	− 2	SW	4	b	4	opq	*	49	39	0.04
	Portland Bill ...	29.23	46	W	6	bcq	29.60	+.54	45	42	− 3	W	4	bc	4	bcq	*	50	41	0.04
	Dungeness	29.25	45	WSW	7	b	29.65	+.54	37	36	− 13	NW	3	b	3	c. b	*	50	36	0.19
	London (Brixton) ...	29.24	41	WNW	3	b	29.60	+.64	39	37	− 6	WSW	2	b	*	bc. b	4.5	50	34	—
	Oxford	29.24	38	SW	3	b	29.60	+.61	34	33	− 9	S	2	b	*	b	*	46	34	—
	Yarmouth	29.17	42	SW	4	bc	29.58	+.64	35	34	− 9	SW	3	bm	3	bc	*	47	34	0.01
France & Netherlands. Germany.	Cuxhaven	29.35	42	SW	5	o	29.51	+.41	47	40	− 3	SW	4	o	*	o	*	45	39	—
	Berlin	29.71	38	S	3	bc	29.69	+.23	41	38	+ 4	SSW	3	o	*	bc	*	43	37	0.04
	Wiesbaden	*	*	*	*	*	29.66	+.16	41	40	− 1	SW	3	o	*	*	*	48	38	—
	Munich	29.86	31	SE	5	b	29.91	+.17	29	27	− 4	SE	3	bc	*	b	*	43	26	—
	The Helder ...																			
	Brussels	*	*	*	*	*	29.73		40	39		SW	3	o	*	r	*	48	39	0.32
	C. Gris Nez ...	29.33	45	SW	6	c	29.65	+.49	46	42	− 1	W	5	c	5	c	*	50	41	0.43
	Paris	29.47	45	SSW	2	r	29.73	+.29	41	41	− 4	SE	1	o	*	r	*	48	40	0.51
	Brest	29.35	48	S	3	o	29.62	+.39	48	46	0	W	3	b	3	a	*	50	43	0.84
	Lorient	29.38	47	W	4	r	29.70	+.33	43	41	− 7	S	2	c	3	r	*	52	41	0.20
	Rochefort	29.45	55	SSW	6	o	29.71	+.18	46	45	− 5	NE	2	o	*	o	*	55	43	0.12
	Belfort	29.67	49	W	1	b	29.78	+.10	36	49	+ 12	SW	8	o	*	b	*	56	39	—
	Lyons	29.75	53	S	7	bc	29.86	+.02	53	48	+ 12	S	6	o	*	bc	*	56	41	—
	Nice	30.09	53	E	0	c	30.19	+.35	47	47	− 3	E	2	r	3	c	*	59	45	0.08
	Perpignan	29.80	48	NE	1	o	29.88	−.02	57	49	+ 18	SW	3	o	*	o	*	57	39	—
	Biarritz	29.57	60	S	7	o	29.74	+.03	60	54	+ 6	S	6	bc	3	o	*	63	54	—
Span. Pen.	Corunna																			
	Lisbon	29.81	59	SSW	5	b	29.88	+.06	57	54	− 1	SW	4	bc	*	b	*	61	57	0.43
	Azores (P. Delgada)	30.01	52	NNW	4	bc	29.95	+.16	54	50	+ 2	NNW	4	c	3	bc	*	57	48	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 recorded on the Tower of the Wesleyan Training College, Westminster*

Bright Sunshine yesterday Southpo 1.3 *hrs.*

WEATHER CHARTS

FOR Sunday, 31st December, 1899.

BAROMETER, WIND AND SEA.

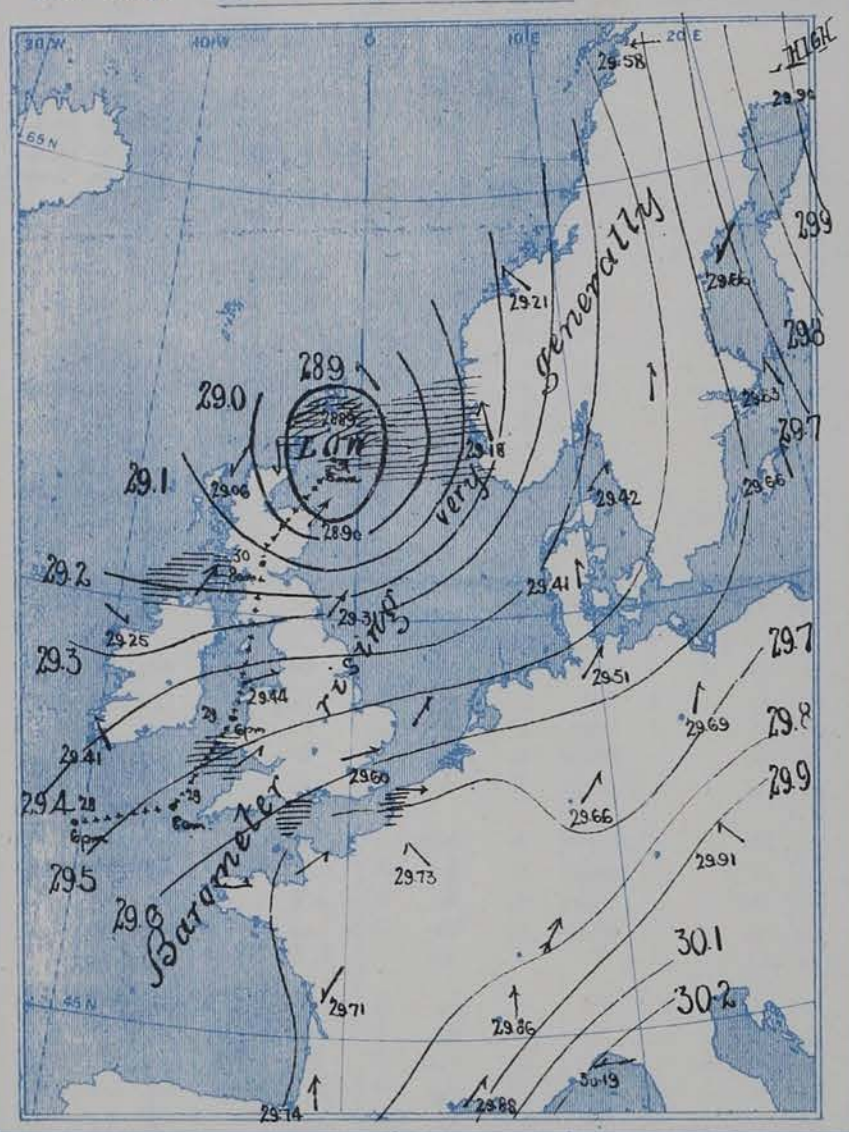
BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show 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* ▓

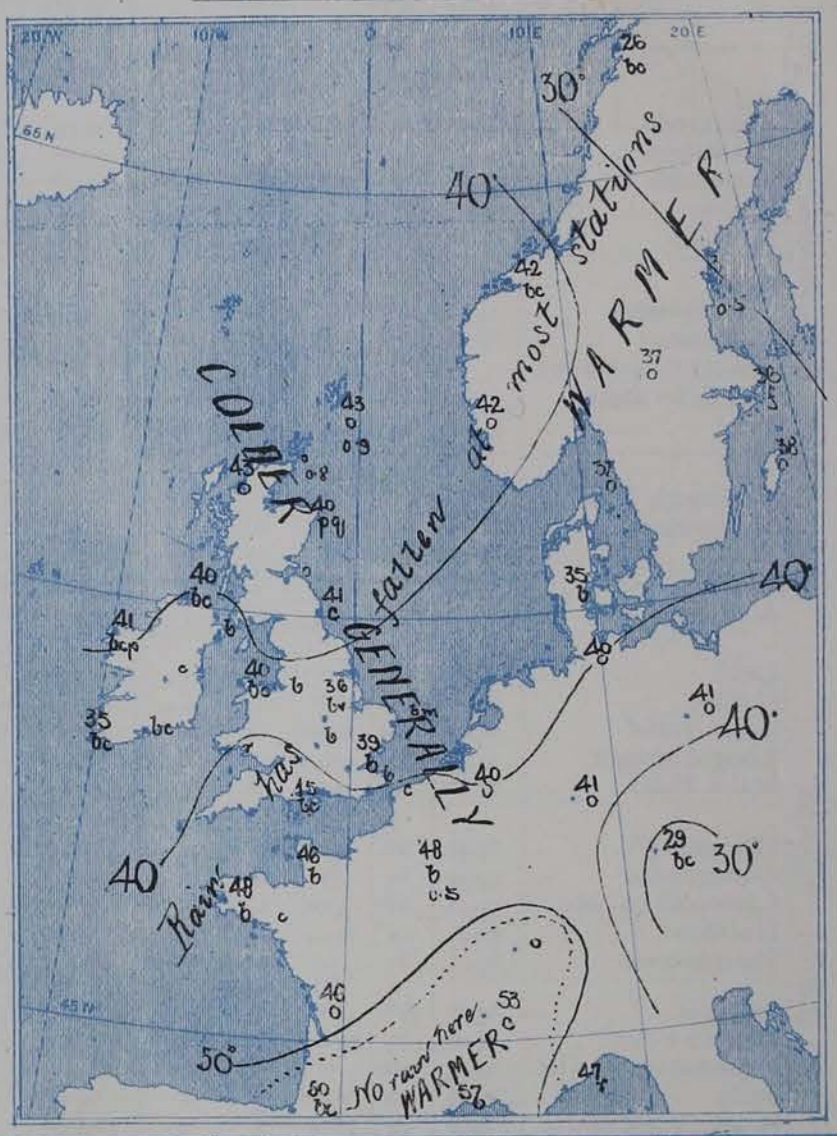


TEMPERATURE AND WEATHER.

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	29·906	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	1890	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, 30·1 ins: and upwards in the extreme south of France; 29·9 ins: and upwards in Lapland.
Lowest, 28·9 ins: and less in a depression with its centre off the northeast of Scotland
Gradients rather steep over Scotland and the North Sea, but moderate or slight elsewhere.
Barometer rising generally.

TEMPERATURE

Highest, 60° at Biarritz, 57° at Perpignan and Lisbon, and 56° at Belfort; highest in our Islands 46° at Jersey.
Lowest: (1) 16° at Haparanda, 26° at Bodö and 30° at Hernösand; (2) 29° at Munich; (3) 30° at Parsonstown and 34° at Oxford.
Ground frost occurring at night over the inland parts of the United Kingdom, thermometer on grass falling to 27° at Loughton and Oxford.

WIND

Moderate to fresh from the SW^ed over the greater part of our Islands, and light from the same quarter over the Netherlands Germany and Denmark, S¾ in the south of Scandinavia; E¾ in the northern part of that Peninsula. N¾ in the north of Scotland. S¾ to E¾ in the south of France.

WEATHER

Fine over England and Ireland and also in the west of Norway.
Cloudy or dull in most parts of Western Europe, with showers in the east of Scotland, and steady rain at Nice.
Rain fell yesterday in nearly all parts of our area – heavily in the north of Scotland.

SEA

High at Leemburgh Hd. and rather rough on several of the more exposed parts of our western and southern coasts, moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 1st JANY 1899.

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	

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.	WIND. Force.	WEA.	SEA.
Skudesnaes ...	29·79	43	40	ESE	6	o	4
Sumburgh Head	28·64	42	42	ENE	6	r	7
Stornoway... ...	28·61	45	44	E	4	o	4
Aberdeen	28·55	42	40	WSW	3	c	5
Shields	28·71	43	41	SW	3	c	3
Malin Head ...	28·55	40	40	WNW	7	r	6
Blacksod Pt.. ...	28·88	43	39	NW	6	c	6
Holyhead	28·95	45	39	WSW	7	c	5
Valencia	29·12	38	36	WNW	7	spq	6
Scilly	29·22	44	42	W	5	cp	5
Jersey	29·34	49	45	SW	5	o	5
Portland Bill ...	29·21	46	43	W	8	bcq	6
Dungeness ...	29·23	49	46	W	8	c	7
London (Westminster)	29·24	41	39	WNW	3	b	*
Yarmouth ...	29·11	47	42	SW	5	bc	5
Rochefort ...	29·50	54	50	SSW	6	r	*

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

Weather in morning fine over the southern parts of our Islands, as well as over the Netherlands, the Spanish Peninsula, northern Italy, and the extreme south of France. Cloudy or dull in nearly all other parts of Europe, with showers in Scotland and the north of Ireland, and steady rain at Skagen and Rochefort; snow falling in Sweden and Finland. Rain falling later in most parts of Western Europe – heavily in the north of Scotland.

Temperature changed very unequally in our Islands, fallen in France, risen in most other parts of the Continent. Morning readings highest 61° at Malta, and 59° at Brindisi and Algiers; above 50° at most of the Mediterranean and Spanish coast stations. Lowest 11° at Moscow, 14° at Ulleaborg and Kuopio, and 13° at Haparanda; below the freezing point over northern and eastern Europe generally. Rising during day to 45° and upwards in many parts of the United Kingdom and to 50° in London and at Portland Bill, exceeding 55° in the south of France and reaching 63° at Biarritz. Frost occurring at night at several of the English and Irish stations.

Wind strong from the NW^d in Ireland and from the W^d or SW^d over England and the north of France, with a gale in the English and Bristol Channels. S. over Spain, the central and southern parts of France and the Netherlands; SE. in Germany, Denmark, Russia, and the south of Scandinavia; E. in the west of Norway and also in the north of Scotland. Variable in Italy and the Mediterranean. No important change occurring over Western Europe during day.

Barometer highest 30·5 ins. and upwards in an anticyclone over Central Russia. Lowest 28·5 ins. and less in a well marked depression with its centre over the west of Scotland. Depression moving very slowly northeastwards during day; shallow secondary disturbance appearing over Bay of Biscay 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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REPORTS FOR DECEMBER 1899.

2. CORRECTIONS.

DATE.	STATIONS.	YESTERDAY EVENING.					THIS MORNING.									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	Spurn Head ..	-	-	-	-	-	29.97	-	-	-	-	-	-	-	-	-	-	-	-	-
2	Spurn Head ...	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	no rain
..	Dungeness.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0·10
3	Leith.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28	-
..	Blacksod.....	-	-	-	-	-	-	-	-	47	-	-	-	-	-	-	-	-	-	-
..	Parsonstown.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0·08
..	London.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2·0	-	-	-
..	Berlin.....	29.82	43	nnw	5	c	30.11	+30	38	33	−6	nnw	3·	0	-	c	-	45	37	0·04
5	Scilly.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48	-
6	Malin Head...	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	?49	-
..	Brest.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	55	-	-
7	Donaghadee...	-	-	-	-	-	-	-	-	38	-	-	-	-	-	-	-	-	-	-
..	Portland Bill	-	-	-	-	-	-	-	?50	49	−3	-	-	-	-	-	-	-	-	-
8	Pembroke.....	29.69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
..	Scilly.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	56	-	-
..	Dungeness.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	90 rain
9	Spurn Head....	-	-	-	-	-	-	-	-	37	-	-	-	-	-	-	-	-	-	-
..	Pembroke.....	?9000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
..	Jersey.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0·07
..	The Helder.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	?34	-	-
10	Spurn Head....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	?	-	-
11	Donaghadee....	-	-	-	-	-	30·10	+·15	-	-	-	-	-	-	-	-	-	-	-	-
12	Spurn Head....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	?	-	-
..	Donaghadee...	-	-	-	-	-	.	-38	-	-	-	-	-	-	-	-	-	44	-	-
..	Parsonstown....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0·44
17	Sumburgh Head	-	-	-	-	-	30·01	+·60	-	-	-	-	-	-	-	-	-	-	-	-
18	Malin Head...	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40	-	-
20	Blacksod.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45	-	-
..	Donaghadee....	-	-	-	-	-	30·10	+·13	-	-	-	-	-	-	-	-	-	-	-	-
24	Portland Bill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0·04
26	Sumburgh Head...	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0·11
-	Stornoway.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0·20
..	Wick.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	0·10
..	Nairn.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26	-
..	Blacksod.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0·18
..	Jersey.....	3009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	Cape Gris Nez....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2·32
29	Aberdeen.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0·29
-	Brest.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51	-	-
30	Valencia.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	41	-
31	Jersey.....	-	-	-	-	-	29·68	+·43	-	-	-	-	-	-	-	-	-	-	-	-

ADDITIONS AND CORRECTIONS TO THE

I. REPORTS RECEIVED TOO LATE FOR INSERTION DAILY.

DATE.	STATIONS.	YESTERDAY EVENING.					THIS MORNING.									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	Cape Gris Nez	30.33	42	S.	2	m	30.18	-.23	44	-	+ 2	SW	5	m	5	m	-	46	39	-
"	Corunna	30.27	60	E	1		30.28	-	42	39	-	E	3		2		-	61	37	-
"	Azores (P. Delgada)	29.70	62	NNE	4		29.63	-.17	61	59	0	NNE	1		3		-	66	59	0.32
"	Nice	29.93	50	E	2		30.09	-.13	50	-	0	E	2		2		-	61	46	-
"	Corunna	30.27	59	E	1		30.32	+.04	43	41	+ 1	E	3		2		-	59	39	-
3	Munich	30.27	34	W	6		30.36	+.16	34	33	+ 2	W	5				-	37	32	0.08
"	Brussels	-	-	-	-		30.51	+.26	37	-	0	W	0				-	46	36	0.08
4	Azores (P. Delgada)	29.50	62	SSW	8		29.60	+.12	63	60	- 1	S	6				-	68	59	0.08
5	Corunna	30.27	?	E	3		30.26	-	47	42	-	E	3		2		-	61	41	-
6	Corunna	30.24	64	E	1		30.17	-.09	59	55	+ 12	SE	3		2		-	64	?	0.16
7	Corunna	30.04	62	S	3		29.81	-.36	59	56	0	W					-	64	54	2.80
8	Corunna	29.56	57	WNW	8		30.08	+.27	59	55	0	WNW					-	63	54	0.20
9	Corunna	30.13	52	NW	7		30.25	+.17	55	50	- 4	ESE					-	59	60	0.12
11	Bodo	30.43	38	E	2		30.47	+.19	35	33	- 4	ESE					-	39	32	-
"	Christiansund	30.47	31	ESE	1		30.49	+.15	28	27	- 6	ESE					-	36	25	-
"	Skudesnaes	29.46	32	ESE	6		30.43	+.03	33	29	+ 1	ESE					-	34	30	-
"	Corunna	30.08	59	NW	3		30.13	+.05	57	54	+ 9	NW					-	59	?	0.16
12	Corunna	30.20	66	N	3		29.97	-.16	59	58	+ 2	W					-	66	55	0.28
13	Brussels	-	-	-	-		29.86	-.10	9	-	- 5	S					-	21		-
"	Corunna	30.04	55	NW	3		29.69	-.28	60	56	+ 1	W					-	63	55	0.16
"	Azores (P. Delgada)	30.49	63	WSW	4		30.41	-.09	63	59	+ 1	WSW					-	66	61	-
14	Valencia	-	-	-	-		29.61	+.34	44	40	- 1	NNW					-	46	40	0.61
"	Corunna	29.56	51	NE	3		29.82	+.13	42	42	- 18	NW					-	60	39	1.73
15	Valencia	-	-	-	-		29.80	+.19	44	41	0	SSE					-	44	32	-
17	Berlin	29.95	34	NNE	2		29.87	-.14	31	-	+ 6	W					-	34	25	0.24
"	The Helder	30.08	24	E	1		30.04	-.01	33	-	+ 11	NE					-	34	21	-
18	Scilly	29.81	44	E	6		30.01	+.41	44	40	0	ENE					0.0	46	37	-
"	Corunna	29.65	50	SW	3		29.74	+.14	54	53	+ 9	N					-	55	45	0.51
"	Azores (P. Delgada)	30.98	53	N	3		30.28	-.13	57	53	+ 3	WSW					-	61	52	-
	Scilly 2pm	-	-	-	-		30.03	-	46	43	-	ESE					-	-	-	-
19	Scilly	30.03	47	ESE	3		29.98	-.03	48	46	+ 4	S					0.0	49	43	-
"	Corunna	29.88	56	E	3		30.01	+.27	45	41	- 9	NE					-	57	37	-
"	Scilly 2pm	-	-	-	-		29.98	-	47	43	-	SE					-	-	-	-
20	Scilly	29.96	48	S	4		29.96	-.02	50	48	+ 2	SSE					0.0	50	43	0.07
"	Corunna	30.00	54	NE	2		30.05	+.04	47	45	+ 2	E					-	55	43	-
"	Scilly 2pm	-	-	-	-		29.98	-	52	50	-	SSE					-	-	-	-
21	Scilly	30.01	51	SE	5		30.07	+.11	51	48	+ 1	ESE					0.0	53	47	0.14
"	The Helder	30.22	28	E	1		30.34	+.13	20	-	- 5	ENE					-	30	19	-
"	Corunna	30.08	57	SE	3		30.01	-.04	51	48	+ 4	SE					-	59	46	0.08
"	Scilly 2pm	-	-	-	-		30.07	-	52	49	-	SE					-	-	-	-
22	Scilly	30.06	51	ESE	7		29.92	-.15	51	51	0	ESE					0.0	55	46	0.47
"	Perpignan	30.17	47	SW	1		30.23	+.08	41	-	- 6	SW					-	67	34	-
"	Corunna	30.05	57	SSE	3		30.09	+.08	54	50	+ 8	SE					-	57	51	-
"	Scilly 2pm	-	-	-	-		29.88	-	58	57	-	SE					-	-	-	-
23	Scilly	29.85	52	ESE	4		30.02	+.10	49	47	- 2	ENE					3.1	56	46	0.22
"	The Helder	30.21	26	ESE	2		30.09	-.29	27	-	- 4	ESE					-	27	23	-
"	Corunna	30.12	59	ENE	3		30.24	+.15	52	-	- 2	S					-	59	50	0.08
24	Scilly 2pm	-	-	-	-		30.03	-	53	52	-	WSW					-	-	-	-
25	Scilly	29.99	53	NW	4		30.11	+.06	48	44	- 5	NW					0.8	55	43	0.07
"	Berlin	30.06	26	SSW	2		29.86	-.32	31	-	- 15	SSW					-	31	14	0.08
"	Scilly 2pm	-	-	-	-		30.03	-	50	47	-	NNW					-	-	-	-
26	Scilly	29.97	51	NNW	5		29.66	-.45	48	44	0	W					4.6	54	44	0.24
"	Corunna	30.16	57	NNW	3		29.97	-	48	46	-	N					-	57	45	-
"	Lisbon	30.11	52	NW	2		30.02	-.20	46	46	- 1	NNE					-	59	46	-
"	Azores (P. Delgada)	30.23	58	NNE	4		30.18	-.08	57	55	- 1	NNE					-	64	54	0.08
"	Scilly 2pm	-	-	-	-		29.52	-	46	45	-	W					-	-	-	-
27	Scilly	29.47	45	NNE	4		29.44	-.22	42	38	- 6	ESE					0.0	52	37	0.09
"	Corunna	29.88	54	NW	3		29.69	-.28	50	47	+ 2	SW					-	55	46	0.24
"	Scilly 2pm	-	-	-	-		29.44	-	46	43	-	ESE					-	-	-	-
28	Valencia	-	-	-	-		28.76	-.69	36	35	+ 6	ENE					0.1	42	30	0.22
"	Scilly	29.35	45	ESE	5		28.22	-.62	52	50	+ 10	ESE					0.4	52	38	0.80
"	Scilly 2pm	-	-	-	-		28.72	-	49	47	-	S					-	-	-	-
29	Blacksod	28.87	35	ENE	10		28.60	-.66	41	39	+ 3	NE					-	41	33	1.33
"	Scilly	28.63	47	S	5		28.22	-.60	50	49	- 2	SSW					1.1	52	45	0.45
"	Scilly 2pm	-	-	-	-		28.41	-	50	48	-	W					-	-	-	-
30	Scilly	28.60	49	NNW	4		29.10	+.88	47	45	- 3	WSW					0.4	52	40	0.22
31	The Helder	29.26	42	SSW	4		29.54	+.56	42	-	- 1	SW					-	45	39	0.04