11459

METEOROLOGICAL OFFICE.

DAILY WEATHER REPORTS.

1ST JANUARY TO 30TH JUNE, 1893.

28.4.94

Sec. Mag. Lond.

DAILY WEATHER REPORT.

January to June 1893.

DAILY WEATHER REPORT

for 8 a.m. on Sunday 1st January, 1893.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. Reading at 32° F. and Sea Level.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	THIS MORNING. (See note at bottom of last page.) Barometer. Reading at 32° F. and Sea Level.	Barometer. Change since Yesterday Morn.	Shade Temp. Dry Bulb.	Shade Temp. Wet Bulb.	Shade Temp. Change in dry since Yesterday.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	Sea (0 to 9).	PAST 24 HOURS. Weather.	Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
		Ins.	°				Ins.		°	°	°							°	Ins
SCANDINAVIA.	Haparanda ...	30·81	−35	N	2	b	30·85	+ ·16	−37	−38	− 9	Z	0	b	*	b	−8	?	—
	Hernösand ...	30·68	14	NE	6	0	30·76	+ ·28	13	13	+ 12	N	1	0	*	0	28	12	—
	Stockholm ...	30·19	10	NNE	6	0	30·31	+ ·23	7	6	− 1	NE	6	0	*	0	19	7	—
	Wisby	29·92	16	E	6	s	30·03	+ ·23	17	16	− 5	E	6	s	*	s	25	14	0·39
	Bodö	30·54	13	E	6	b	30·59	+ ·30	9	8	− 5	E	4	b	2	b	14	7	—
	Christiansund...	30·27	26	ESE	6	b	30·37	+ ·23	22	21	− 6	ESE	5	b	3	b	27	21	—
	Skudesnaes ...	30·28	25	E	5	b	30·32	+ ·16	21	17	− 7	E	6	b	3	b	25	19	—
	Christiania Fjord (Færder)	30·31	15	N	10	c	30·35	+ ·11	14	13	− 5	NNE	10	c	4	c	19	14	—
	Skagen (The Scaw)	30·12	21	NE	7	o	30·16	+ ·01	19	19	− 1	ENE	8	s	6	o	21	15	—
	Fanö	30·00	22	NE	4	c	29·94	− ·11	19	15	− 3	NE	6	b	*	c	23	19	—
BRITISH ISLANDS	Sumburgh Head	30·08	36	SE	4	o	30·22	+ ·40	33	31	− 7	Z	0	c	4	o	41	30	0·06
	Stornoway ...	29·88	32	W	3	f	30·04	+ ·27	36	34	− 4	SE	6	o	6	f	41	29	—
	Wick	30·13	37	S	8	o	30·13	+ ·31	34	32	− 5	SSE	5	o	5	s,o	40	32	0·06
	Nairn	29·98	33	SSW	2	c	30·12	+ ·27	31	30	+ 2	ESE	3	c	1	c	36	26	—
	Aberdeen ...	30·03	37	SSE	6	0·99	30·15	+ ·21	32	31	− 4	ESE	6	cq	6	0·99	38	32	0·07
	Leith	29·96	33	ESE	1	o	30·05	+ ·15	32	31	+ 3	E	2	cs	*	o	36	28	0·01
	Shields	29·97	36	ESE	4	c prs	30·04	+ ·12	33	33	0	E	4	c	4	prs,c	38	29	0·14
	Spurn Head ...	29·92	35	E	5	o	29·95	+ ·07	31	31	− 5	ENE	4	bw	4	o	37	23	0·01
	York	29·95	34	ESE	1	c	30·02	+ ·12	28	28	− 5	NE	1	b	*	c	36	26	—
	Loughborough	29·91	32	E	2	o	29·97	+ ·09	26	25	− 7	NE	2	bc	*	o	34	25	—
	Ardrossan ...	29·92	36	ENE	1	o	30·07	+ ·21	32	31	+ 2	ENE	1	om	1	o	38	26	—
	Malin Head ...	29·77	36	SE	6	cm	29·90	+ ·18	33	32	− 2	SE	6	o	4	cm	38	?32	—
	Mullaghmore ...	29·73	39	ESE	6	og	29·86	+ ·18	36	32	− 1	ESE	6	og	4	og	40	35	—
	Belmullet ...	29·67	38	ESE	5	o	29·81	+ ·17	36	32	0	ESE	5	o	*	o	38	34	—
	Donaghadee ...	29·86	38	SE	6	bc	30·00	+ ·19	34	33	− 6	ESE	8	bc	6	bc	41	33	—
	Liverpool (Bidston)	29·90	34	E	3	o	30·00	+ ·16	28	28	− 6	E	3	b	1	o	35	28	—
	Holyhead ...	29·82	33	E	3	b	29·95	+ ·18	31	30	− 3	ESE	4	b	3	b	38	30	—
	Parsonstown ...	29·71	37	SE	2	o	29·86	+ ·21	33	30	− 3	SE	2	og	*	o	38	32	—
	Valencia	29·49	45	ESE	7	omw	29·64	+ ·17	43	39	0	E	6	om	5	omw	46	42	—
	Roche's Point	29·63	43	SE	8	c	29·75	+ ·19	40	38	− 4	ESE	8	o	6	c	45	39	—
	Pembroke (St. Ann's Hd.)	29·72	35	ESE	7	c	29·85	+ ·19	31	29	− 6	E	5	cq	5	c	38	30	—
	Scilly	29·54	43	E	7	bw	29·67	+ ·17	42	39	− 1	E	7	c	5	bc	45	39	—
	Prawle Point ...	29·69	38	E	6	c	29·80	+ ·14	32	30	− 6	E	6	cq	5	cq	41	30	—
	Jersey (St. Aubin's)	29·69	36	ESE	4	b	29·87	+ ·11	28	26	− 5	E	5	bem	4	b	37	27	—
	Hurst Castle ...	29·78	36	ESE	7	cq	29·89	+ ·13	29	28	− 8	ENE	6	bc	4	cq	37	28	—
	Dungeness ...	29·81	35	E	5	c	29·86	+ ·04	27	27	− 6	ESE	6	b	5	c	36	25	—
	North Foreland	29·83	34	E	6	oq	29·87	+ ·04	30	30	− 4	E	4	c	5	oq	36	26	—
	London	29·85	33	E	3	o	29·88	+ ·04	27	27	− 4	ENE	3	osp	*	osp	34	26	—
	Oxford	29·88	32	E	1	o	29·93	+ ·09	24	23	− 4	NE	1	b	*	os	33	24	0·02
	Cambridge ...	29·90	32	E	2	o	29·93	+ ·05	23	22	− 9	ENE	1	b	*	o	34	21	—
	Yarmouth ...	29·90	32	E	7	cq	29·89	+ ·01	29	29	− 5	NE	6	cqsp	5	csp	35	27	0·03
GERMANY & HOLLAND	Cuxhaven ...	29·96	24	NE	5	o	29·85	− ·13	23	22	− 1	NE	6	o	*	o	24	23	—
	Berlin	29·77	16	NW	3	b	29·63	− ·20	19	18	− 4	NNE	3	o	*	b	32	14	—
	Wiesbaden ...	*	*	*	*	*									*	*			
	Munich ...	29·59	21	SE	4	r	29·57	− ·13	11	11	− 6	N	4	s	*	r	23	5	—
	The Helder ...	29·98	26	ENE	4	s	29·92	− ·03	27	26	− 5	ENE	5	c	3	s	32	25	0·04
FRANCE AND BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	29·88	+ ·02	12	12	− 12	NNE	1	b	*	c	29	11	—
	Cape Gris Nez	29·79	29	E	4	c	29·83	+ ·02	26	26	− 3	E	4	bc	4	c	32	25	—
	Paris	29·73	27	NE	2	b	29·78	+ ·02	14	13	− 8	NNE	3	b	*	b	?	14	—
	Brest	?	37	ESE	4	b	?	?	29	28	− 12	SE	3	b	3	b	45	28	—
	Lorient	29·53	35	E	6	b	29·67	+ ·17	27	24	0	ENE	6	b	4	b	37	26	—
	Rochefort ...	29·48	30	E	4	b	29·56	+ ·04	24	23	0	ENE	4	b	*	b	41	21	—
	Belfort	?	25	E	3	o	?	?	14	13	− 6	E	3	bc	*	o	38	14	—
	Lyons	29·65	18	NE	1	b	29·63	− ·07	31	30	+ 4	E	1	o	*	b	24	15	—
	Nice	29·39	41	E	1	b	29·33	− ·15	35	31	− 5	E	1	b	2	b	50	36	—
	Perpignan ...	29·44	37	Z	0	b	29·45	− ·06	30	29	− 2	SW	2	b	*	b	46	29	—
	Biarritz	29·36	38	ESE	4	b	29·46	+ ·06	47	46	+ 18	W	5	r	3	b	?	?	—
PENINSULA.	Corunna	*	*	*	*	*										*			
	Lisbon	29·63	53	SW	2	o	29·69	+ ·26	51	50	+ 1	NE	2	b	*	o	57	50	—

For Explanation of Columns, see bottom of last page.

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

WEATHER CHARTS

for 8 a.m. on Sunday, 1st Jan. 1893.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

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

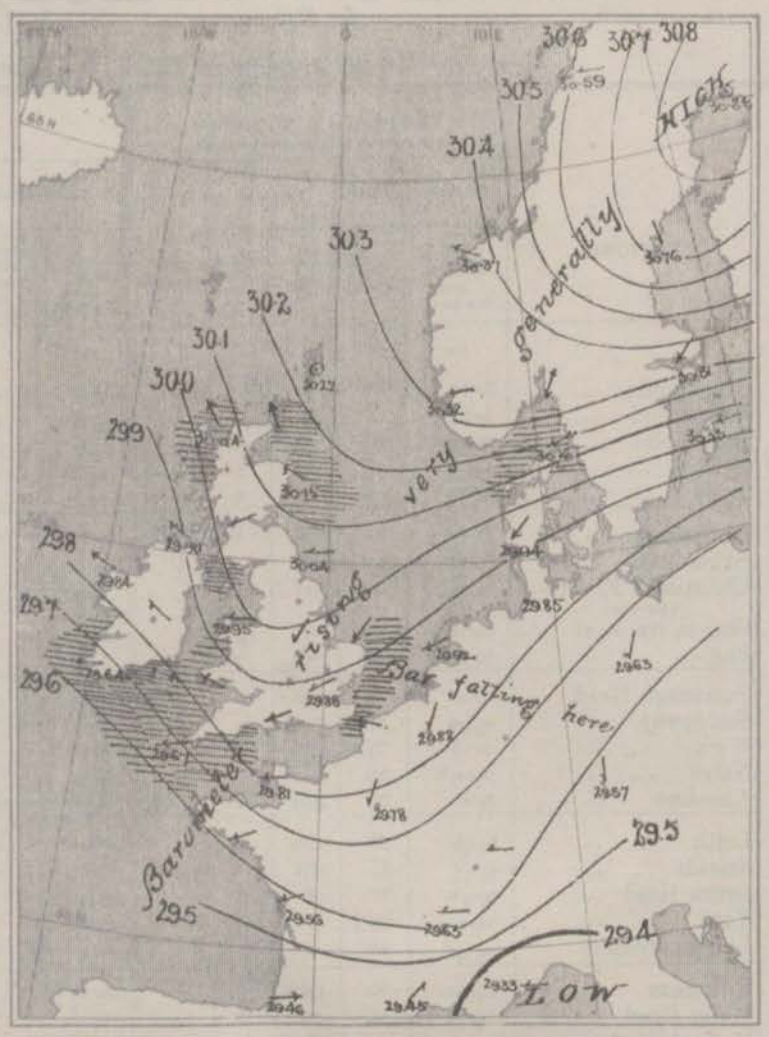
WIND - Arrows shew the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus—
▶⟶ = forces above 10; ▶⟶ = forces 8 to 10;
⟶ = forces 5 to 7; ⟶ = forces 1 to 4.
⊘ = dead calm.

SEA DISTURBANCE—Where considerable, is shewn thus:
▒ = Rough. ▒ = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of January.
During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29 · 675
Stornoway	29 · 682
Wick	29 · 719
Nairn	29 · 745
Aberdeen	29 · 787
Leith	29 · 825
Shields	29 · 881
Spurn Head	29 · 926
York	29 · 932
Loughborough	29 · 967
Ardrossan	29 · 838
Mullaghmore	29 · 817
Donaghadee	29 · 855
Holyhead	29 · 902
Liverpool	29 · 924
Parsonstown	29 · 895
Valencia	29 · 887
Roche's Point	29 · 908
Pembroke	29 · 936
Scilly	29 · 969
Prawle Point	30 · 006
Jersey	30 · 042
Hurst Castle	30 · 002
Dover	30 · 012
LONDON	30 · 008
Oxford	29 · 999
Cambridge	29 · 993
Yarmouth	29 · 979



TEMPERATURE, & WEATHER AT 8 A.M.,
WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shown by Letters of the Beaufort Scale.

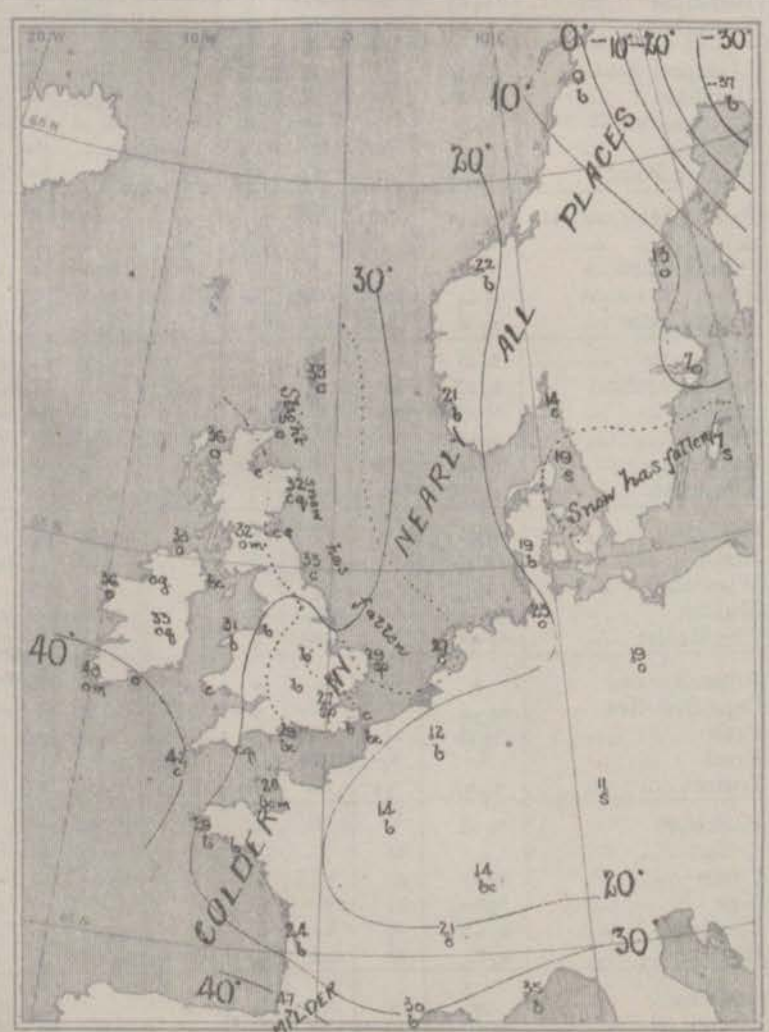
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of January.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	at 8 a.m. Wet.	RAINFALL (Inches.)
Sumburgh Head	42 · 9	35 · 6	39 · 7	38 · 4	3 · 72
Stornoway	43 · 3	34 · 5	39 · 6	38 · 4	5 · 30
Wick	42 · 4	33 · 3	38 · 2	36 · 8	2 · 05
Nairn	42 · 2	32 · 9	37 · 2	35 · 6	1 · 99
Aberdeen	42 · 4	33 · 2	37 · 9	35 · 6	2 · 31
Leith	44 · 4	33 · 7	38 · 6	37 · 2	1 · 93
Shields	43 · 0	34 · 2	38 · 2	36 · 9	1 · 75
Spurn Head	41 · 7	34 · 5	37 · 7	36 · 7	1 · 35
York	42 · 7	32 · 5	36 · 7	35 · 7	1 · 87
Loughborough	43 · 0	32 · 3	36 · 4	35 · 4	2 · 04
Ardrossan	44 · 2	36 · 3	40 · 0	38 · 5	4 · 25
Mullaghmore	46 · 1	38 · 0	41 · 6	40 · 4	4 · 36
Donaghadee	44 · 4	36 · 1	40 · 0	39 · 2	2 · 98
Holyhead	45 · 6	38 · 7	41 · 7	40 · 3	3 · 38
Liverpool	43 · 5	35 · 2	38 · 6	37 · 0	2 · 22
Parsonstown	45 · 6	34 · 2	38 · 0	37 · 8	3 · 12
Valencia	49 · 5	40 · 4	44 · 5	43 · 3	6 · 69
Roche's Point	47 · 7	39 · 5	43 · 2	41 · 0	5 · 50
Pembroke	46 · 5	39 · 6	42 · 7	41 · 3	3 · 75
Scilly	48 · 8	42 · 9	46 · 4	44 · 9	3 · 73
Prawle Point	46 · 2	37 · 6	42 · 0	41 · 0	3 · 09
Jersey	45 · 8	38 · 3	41 · 8	40 · 4	3 · 21
Hurst Castle	45 · 0	36 · 3	40 · 3	39 · 5	2 · 94
Dover	43 · 5	35 · 8	39 · 2	38 · 1	2 · 58
LONDON	44 · 1	33 · 8	37 · 6	36 · 6	2 · 12
Oxford	43 · 1	35 · 6	37 · 1	36 · 1	2 · 26
Cambridge	43 · 3	31 · 7	36 · 2	35 · 4	1 · 54
Yarmouth	41 · 5	34 · 8	37 · 5	36 · 7	1 · 95

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30. 8 inches and upwards over the northern parts of the Gulf of Bothnia

Lowest 29. 4 inches and less in a depression lying over the Gulf of Genoa.

Gradients rather steep over Sweden and Denmark, moderate elsewhere.

Barometer rising at all but the Danish and German stations.

TEMPERATURE

Highest 51° at Lisbon, 47° at Biarritz, 43 at Valencia Island, 42° at Scilly and 40° at Roches Point.

Lowest −37° Fahr: at Haparanda, 17° at Stockholm, 9° at Bodö, 11° at Munich, and 12° at Brussels.

The daily maxima registered yesterday over the inland parts of England were very little above the freezing point.

WIND

Easterly over our Islands, France and the west of Norway, – inclining to the NE.ᵗʰ in the east, but to the S.E. in the west.

Strong on our west, south and southeast coasts generally, with a gale at Donaghadee and Roches Point.

Strong to a gale from the N.E. over Denmark and the south of Scandinavia; moderate from N. or N.E. in Germany.

WEATHER

Fine in many parts of England and France as well as in the west of Norway, but snow showers falling in London and at Yarmouth.

Dull in Ireland and Scotland; snow falling in many parts of Sweden, Denmark and Germany.

In the course of the past 24 hours snow has fallen at several of our northern and northeastern stations.

SEA

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

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on Monday 2nd January, 1893.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	Gale	6 SCOTLAND WEST	Gale
1 SCOTLAND EAST	Gale	7 ENGLAND N.W.	Gale
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST		9 IRELAND NORTH	
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	The North Cone is still flying in Districts nos: 3, 5, 8 & 10.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30.21	28	24	E	4	o	2
Sumburgh Head	29.99	28	36	SE	3	o	5
Stornoway	29.86	40	38	W	4	o	4
Aberdeen	29.98	37	35	SSE	6	ogq	5
Shields	29.92	36	35	SSE	4	o	3
Ardrossan	29.89	38	35	ENE	2	cm	1
Malin Head ...	29.74	38	36	SE	4	om	2
Mullaghmore ...	29.68	40	36	ESE	6	cg	4
Belmullet	29.69	38	35	E	5	o	*
Holyhead	29.77	36	34	ESE	1	b	2

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29.48	46	41	ESE	7	cq	6
Scilly	29.52	44	40	E	7	bc	5
Jersey	29.65	39	35	E	4	bm	4
Hurst Castle ...	29.76	35	34	ESE	6	m	4
Dungeness... ...	29.80	34	33	ESE	5	c	4
North Foreland...	29.80	35	33	E	5	o	4
London	29.82	35	32	ESE	3	og	*
Yarmouth	29.87	35	33	E	5	og	4
Rochefort	29.47	36	32	E	5	b	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather fine and bright at some of our own western and northern stations, as well as in France and Lapland. Dull throughout with rain at Corunna and San Fernando, and with snow at several of the Russian stations as well as at Munich. Snow falling later in the north and northeast of Great Britain; no important change occurring elsewhere.

Temperature fallen in most parts of our Islands and the Continent, but risen considerably over Central England. Morning readings highest 57° at Malta, 55° at Sanguinaria, and 54° at Nemours and Algiers; above 45° at several of the Mediterranean stations, and above 40° in the extreme southwest of our Islands. Lowest −37° Pakt; at Archangel, −28° at Haparanda, −16° at Kuopio and −14° at Ulearborg, below zero at many of the Russian stations, and below the freezing point over Northern, Eastern, and Central Europe generally, as well as in many parts of Great Britain. Daily maxima below 40° over the greater part of our Islands, but thermometer reaching 45° on our extreme southwest coasts.

Wind Easterly or SouthEasterly over England, Ireland & France, with a moderate gale on our southwest coasts. Southerly in Lapland and strong to a gale at Wick. NorthEasterly over Finland, Denmark, the Baltic and the south of Scandinavia, with gales at Hebingfors, and Wisby; Northerly, or NorthWesterly in Germany; variable in Austria; SouthEasterly over the central and southern parts of Russia. Chiefly Northerly in Italy, but variable in Spain and Algeria. Subsequently increasing to a moderate gale from the Eastward on our south and southwest coasts generally.

Barometer highest 30.6 inches and upwards in Lapland, 30.3 inches and upwards over all the more northern parts of Sweden, and Russia. Lowest 29.3 inches and less in a depression lying off the northwest of Spain, 29.4 inches and less in another system lying over Italy, and the adjacent parts of the Mediterranean; 29.7 inches and less in a third situated over West Russia, and the Baltic Provinces. Anticyclone in north subsequently spreading southwestwards, depression off northwest of Spain moving eastwards.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. Reading at 32° F. and Sea Level.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	THIS MORNING. (See note at bottom of last page.) Barometer. Reading at 32° F. and Sea Level.	Barometer. Change since Yesterday Morn.	Shade Temp. Dry Bulb.	Shade Temp. Wet Bulb.	Shade Temp. Change in dry since Yesterday.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	Sea (0 to 9).	PAST 24 HOURS. Weather.	Shade Temp. Max	Shade Temp. Min.	Amount of Rainfall.
		Ins.	°				Ins.		°	°	°							°	Ins.
SCANDINAVIA.	Haparanda ...	30·95	−26	Z	0	b	30·95	+10	−19	−19	+18	N	2	b	*	b	*	−40	—
	Hernösand ...	30·69	−6	NW	8	0	28·44	−32	8	−2	−5	NE	9	d	*	0	*	−11	0·04
	Stockholm ...	30·04	11	NE	8	d	29·84	−49	13	12	+6	N	6	d	*	d	14	5	0·12
	Wisby	29·76	16	E	6	d	29·69	−34	19	18	+2	ENE	4	0	*	d	21	12	0·35
	Bodö	30·56	14	E	4	b	30·70	+11	8	6	−1	E	4	b	2	b	*	3	—
	Christiansund...	30·36	21	ENE	4	b	30·21	−16	13	12	−9	NE	4	b	3	b	23	10	—
	Skudesnaes ...	30·26	22	ENE	4	b	30·08	−24	19	15	−2	NNE	2	b	2	b	1	14	—
	Christiania Fjord (Færder)	30·26	12	NNE	10	c	30·05	−30	9	9	−5	NNE	10	c	3	c	14	7	—
	Skagen (The Scaw)	30·41	30	ENE	8	0	29·82	−34	14	14	−5	ENE	8	8	6	0	*	14	0·08
	Fanö	29·82	19	NE	8	b	29·75	−19	15	15	−4	NE	7	0	*	b	21	14	—
BRITISH ISLANDS	Sumburgh Head	30·24	32	Z	0	c	30·12	−10	32	30	−1	Z	0	c	4	c	35	29	0·04
	Stornoway ...	30·14	34	NE	4	0	30·20	+16	31	31	−5	NW	2	0	3	0	36	25	—
	Wick	30·16	31	NW	1	bc	30·10	−03	38	37	−6	N	2	c	1	bc	36	27	0·03
	Nairn	30·18	22	Z	0	bc	30·17	+05	26	25	−5	W	1	0	1	bc	32	12	0·01
	Aberdeen ...	30·19	30	E	5	cq	30·14	−01	28	27	−4	NW	8	0q	5	0fcq	32	27	0·01
	Leith	30·11	33	ENE	3	0	30·14	+09	30	29	−2	NE	4	0	*	0	33	27	0·02
	Shields	30·06	32	NE	4	cdf	30·07	+03	31	31	−2	NE	3	0	5	cdf	34	26	0·03
	Spurn Head ...	29·91	30	ENE	6	cq	29·98	+03	28	27	−3	NNE	5	cq	5	0fcq	33	25	0·08
	York	30·00	26	NNW	1	d	30·06	+04	20	20	−8	N	1	c	*	d	34	17	0·13
	Loughborough	29·98	26	NE	2	0	30·05	+08	22	22	−4	NNW	2	bm	*	0	31	20	0·01
	Ardrossan ...	30·09	28	NE	1	b	30·18	+11	25	24	−7	NNE	2	b	1	b	34	23	—
	Malin Head ...	30·02	33	NE	5	0df	30·18	+28	31	30	−2	d	2	0	0	be,0df	34	30	—
	Mullaghmore ...	29·98	35	ENE	5	c	30·16	+30	30	30	−6	ENE	3	b	3	c	36	25	—
	Belmullet ...	29·93	38	ENE	5	0	30·14	+33	29	28	−7	E	2	b	*	0	38	25	—
	Donaghadee ...	30·06	34	ENE	7	cdf	30·18	+18	32	32	−2	ENE	6	b	5	cdf	35	31	—
	Liverpool (Bidston)	30·02	29	NE	2	b	30·12	+12	24	24	−4	NNE	1	b	1	b	31	24	—
	Holyhead ...	30·00	31	E	2	0mq	30·11	+16	29	27	−2	E	3	cq	3	b,0mq,d	32	25	0·02
	Parsonstown ...	29·94	32	NE	1	c	30·15	+25	23	22	−10	E	2	0	*	c	33	21	—
	Valencia	29·78	39	E	7	0m	30·04	+40	36	32	−7	ENE	5	bc	4	0m	43	35	—
	Roche's Point	29·86	37	ENE	6	0	30·08	+33	35	34	−5	ENE	4	c	4	0	40	32	—
	Pembroke (St. Ann's Hd.)	29·94	31	E	3	b	30·10	+25	26	24	−5	ENE	2	b	2	b	33	24	—
	Scilly	29·77	39	E	6	c	30·03	+36	38	32	−4	ENE	5	bc	4	c	42	32	—
	Prawle Point ...	29·88	30	ENE	6	c	30·07	+27	22	21	−10	NE	3	bcq	2	c	33	22	—
	Jersey (St. Aubin's)	29·85	29	E	4	bm	30·02	+21	20	19	−8	NE	2	bm	2	bm,d	33	20	0·03
	Hurst Castle ...	29·90	25	NE	3	b	30·09	+20	21	21	−8	NNE	3	bm	2	b	30	20	—
	Dungeness ...	29·80	30	N	1	dq	29·89	+03	19	19	−8	NNW	3	c	3	dq,df	33	16	0·05
	North Foreland	29·81	28	E	6	dq	29·86	−01	30	29	0	N	6	cq	6	dq	30	25	0·80
	London	29·87	37	ENE	2	b	29·97	+09	25	25	−2	NNW	2	bdf	*	df,b	30	21	0·01
	Oxford	29·95	23	NE	2	b	30·04	+11	22	22	−2	N	2	b	*	b	32	21	—
	Cambridge ...	29·94	25	NE	1	bdf	29·98	+05	23	22	0	NNW	1	bc	*	dfb	32	16	0·05
	Yarmouth ...	29·88	29	NE	7	cdq	29·88	−01	27	27	−2	NNE	5	cdq	5	cdq	31	25	0·22
GERMANY & HOLLAND	Cuxhaven ...	29·78	23	NE	6	d	29·74	−11	20	19	−3	NNE	6	0	*	d	23	19	—
	Berlin	29·65	13	Z	0	d	29·63	0·0	7	7	−12	d	1	0	*	d	21	5	0·04
	Wiesbaden ...	*	*	*	*	*	29·76		17	16		NW	2	c	*	*	19	12	—
	Munich ...	29·60	5	SW	2	b	29·69	+12	4	4	−7	NE	2	0	*	b	12	−4	0·04
	The Helder ...	29·87	26	ENE	5	d	29·86	−06	26	26	−1	NNE	5	d	3	d	28	25	0·32
BELGIUM.	Brussels (9 a.m.)						29·87	−01	17	17	+5	WSW	1	0	*	bc	23	12	—
	Cape Gris Nez	*	*	*	*	*													
	Paris	29·78	22	NE	3	d	29·84	+01	25	25	−1	d	2	d	*	d	28	16	—
	Brest	29·80	18	NE	2	b	29·89	+11	14	14	0	NW	1	c	*	b	23	10	—
	Lorient		28	ENE	2	b			27	27	−2	ENE	1	b	2	b	27	27	—
FRANCE AND	Rochefort ...	29·78	26	ENE	5	bc	29·87	+30	25	23	−2	ENE	3	bc	2	bc	34	16	—
	Belfort	29·68	23	ENE	5	b	29·87	+31	19	19	−5	ENE	4	b	*	b	34	18	0·39
	Lyons	29·68	8	E	3	bc			8	0	−6	E	3	c	*	bc	*	5	0·20
	Nice	29·62	20	NNW	2	0	29·86	+23	11	10	−10	NNW	2	b	*	df,0	22	11	—
	Perpignan ...	29·32	38	E	1	b	29·36	+03	36	35	+1	E	1	7	2	b	48	34	0·08
	Biarritz	29·45	46	NW	3	0	29·73	+28	31	27	+1	NE	4	c	*	0	50	31	—
		29·97	44	NNW	5	0	29·88	+42	23	21	−24	E	3	bc	3	0	50	19	—
PENINSULA.	Corunna	*	*	*	*	*													
	Lisbon	29·84	51	NNW	3	c	29·94	+25	45	42	−6	NNE	3	b	*	c	5	45	—

For Explanation of Columns, see bottom of last page.

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

WEATHER CHARTS

for 8 a.m. on Monday, 2nd January 1893.

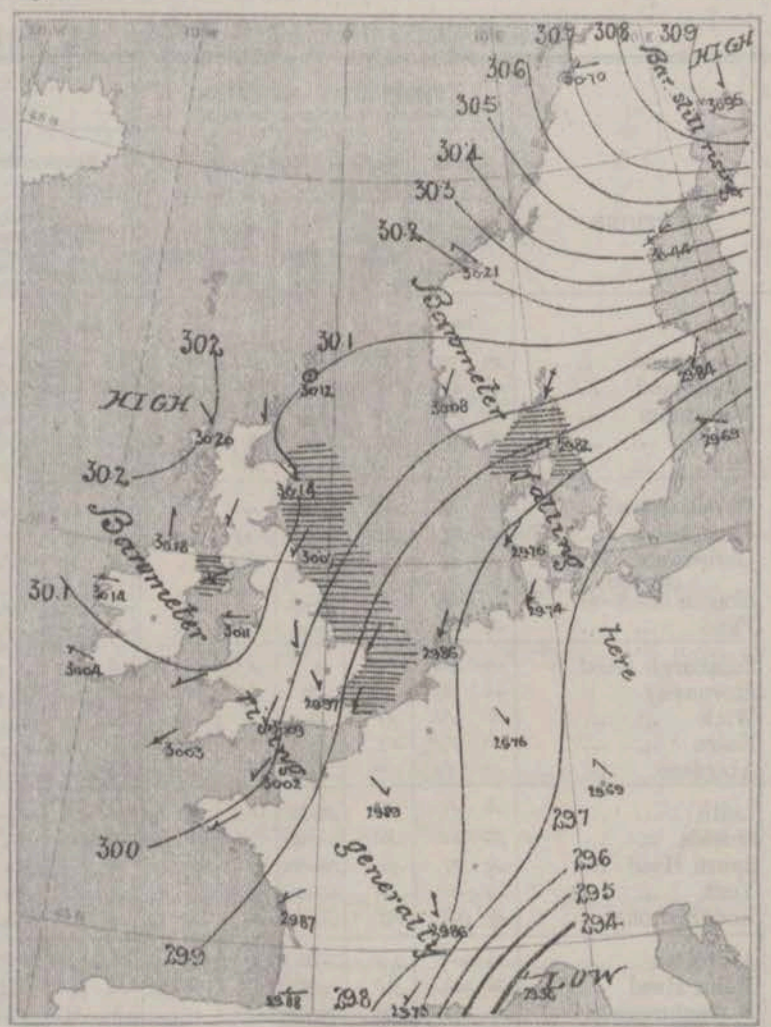
BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

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

WIND—Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus—
⟷ = forces above 10; ⟶ = forces 8 to 10;
⟶ = forces 5 to 7; ⟶ = forces 1 to 4.
◎ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:
= Rough. = High.



MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of January.
During the 20 Years: 1871—1890.

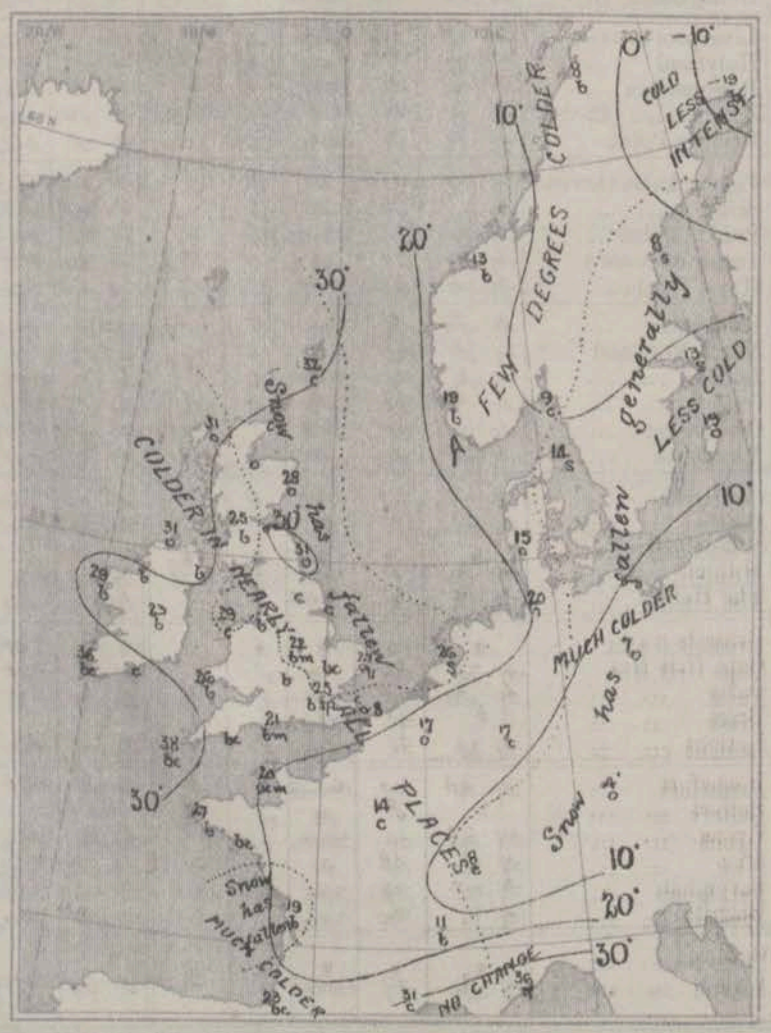
STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29·675
Stornoway	29·682
Wick	29·710
Nairn	29·745
Aberdeen	29·787
Leith	29·825
Shields	29·881
Spurn Head	29·926
York	29·932
Loughborough	29·967
Ardrossan	29·838
Mullaghmore	29·817
Donaghadee	29·855
Holyhead	29·902
Liverpool	29·924
Parsonstown	29·895
Valencia	29·887
Roche's Point	29·908
Pembroke	29·938
Scilly	29·969
Prawle Point	30·006
Jersey	30·022
Hurst Castle	30·002
Dover	30·012
LONDON	30·008
Oxford	29·999
Cambridge	29·993
Yarmouth	29·979

TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.



MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of January.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	at 8 a.m. Wet.	RAINFALL. (Inches.)
Sumburgh Head	42·9	35·6	39·7	38·4	3·72
Stornoway	43·3	34·5	39·5	38·4	5·30
Wick	42·1	33·3	38·2	36·8	2·05
Nairn	42·2	32·9	37·2	35·6	1·99
Aberdeen	42·1	33·2	37·3	35·6	2·31
Leith	44·4	33·7	38·6	37·2	1·92
Shields	43·0	34·2	38·2	36·9	1·75
Spurn Head	41·7	34·5	37·7	36·7	1·35
York	42·7	32·5	36·7	35·7	1·87
Loughborough	43·0	32·3	36·4	35·4	2·01
Ardrossan	44·2	36·3	40·0	38·8	1·25
Mullaghmore	46·1	38·0	41·6	40·4	1·36
Donaghadee	44·4	36·1	40·0	39·2	2·98
Holyhead	45·0	38·7	41·7	40·3	3·38
Liverpool	43·5	35·2	38·6	37·0	2·22
Parsonstown	45·6	34·2	38·9	37·8	3·12
Valencia	49·5	40·4	44·5	43·3	6·69
Roche's Point	47·7	39·5	43·2	41·9	5·50
Pembroke	45·5	39·6	42·7	41·3	3·75
Scilly	48·8	42·9	46·4	44·9	3·73
Prawle Point	46·2	37·6	42·0	41·0	3·09
Jersey	45·8	38·3	41·8	40·4	3·21
Hurst Castle	45·0	36·3	40·3	39·5	4·94
Dover	43·5	35·8	39·2	38·1	2·58
LONDON	44·1	34·8	37·6	36·6	2·12
Oxford	43·1	33·3	37·1	36·1	2·26
Cambridge	43·3	31·7	36·2	35·4	1·54
Yarmouth	41·5	34·8	37·5	36·7	1·95

NOTE—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·9 in. and upwards in Lapland.
Lowest, 29·4 in. and less, in a depression lying over the Gulf of Finland; 29·7 in. and less, in another system lying over Eastern Germany and the Baltic.
Gradients steep over Scandinavia, but moderate or slight elsewhere.
Barometer rising in most parts of our Islands and France, but falling a little in the east of Scotland, and falling decidedly over Denmark and the southern parts of Scandinavia.

TEMPERATURE

Highest, 45° at Lisbon, 38° at Scilly, 36° at Valencia Island and Nice, and 35° at Roche's Point.
Lowest, −19° Fahr. at Haparanda, +4° at Munich, 7° at Berlin, 8° at Boö, Hanösand, and Belfort, and 9° at Keeder.
Hard frost occurred last night in most parts of Great Britain, the lowest readings in the screen being 12° at Nairn, and 16° at Dunfermline and Cambridge.

WIND

Chiefly NE^{3r}, but E^{3r} in Ireland, and NW^{3r} in the north of Scotland.
Light to fresh in force over our Islands and France, but strong to gale over Denmark and the southern parts of Scandinavia.

WEATHER

Fine in most parts of Ireland, England, and France; as well as in the west of Norway, but snow showers falling in London and at Falmouth.
Dull over Sweden, Denmark, Germany, and the Netherlands, with snow in many places.
Snowfall yesterday at many of our northern, eastern and southeastern stations, but the quantity was slight in most places.

SEA

Rough at the Scaw, rather rough on our east and southeast coasts, as well as at Donaghadee.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression over the Baltic appears to be spreading out in a westerly direction, so that the wind on our east coasts is likely to increase from the northward. Snow is probable in many parts of Great Britain.

FORECASTS

For the 24 hours ending at NOON on 3rd January, 1893.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST 2 ENGLAND N.E.	N^{3r} winds, increasing in force; cloudy, squally, some snow.
3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	N^{3r} winds, fresh or strong; gusty, some snow showers.
6 SCOTLAND WEST 7 ENGLAND N.W.	NE^{3r} winds, light to fresh; fine to unsettled and some snow showers.
8 ENGLAND S.W.	NE^{3r} winds, moderate or fresh; fair generally.
9 IRELAND NORTH 10 IRELAND SOUTH	E^{3r} to NE^{3r} winds, fresh; fair generally.
WARNINGS	NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·01	42	38	E N E	6	b	3
Sumburgh Head							
Stornoway	30·13	35	33	S E	4	o	4
Aberdeen							
Shields							
Ardrossan							
Malin Head ...	29·98	33	32	S E	5	be	2
Mullaghmore ...							
Belmullet	29·86	38	35	E S E	5	o	*
Holyhead	29·97	32	32	E	3	b	3

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia							
Scilly							
Jersey	29·75	30	28	E	4	bm	o
Hurst Castle ...							
Dungeness... ...	29·84	28	27	N	2	dq	2
North Foreland...	29·80	30	29	E	4	dq	3
London							*
Yarmouth							
Rochefort	29·58	28	28	E N E	5	b	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Continental information not received

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 25TH TO 31ST DEC. 1892.

The weather of last week was dry and very cold in nearly all parts of the United Kingdom, with frequent fogs at the inland stations.

At the commencement of the time a depression skirted our extreme southwest coasts in a southeasterly direction and moved away across the Bay of Biscay, its progress being attended by strong E. winds at some of the Channel stations. As the disturbance disappeared from our neighbourhood an anticyclone was gradually developed over the entire Kingdom, and dense fogs, with exceedingly hard frosts set in over the more central districts. The lowest temperatures were recorded on the early morning of the 27th when the sheltered thermometer fell to 9° at Loughborough, to 13° at York, and to 14° at Oxford.

On the 28th, however, the anticyclone moved away to the southeastward and depressions began to travel northward along our western coasts so that decided S. breezes set in very generally, with milder weather. Over the eastern and central parts of England, however, the thaw was very slight and temporary, and on the night of the 29th, when a new high-pressure system spread down the North Sea from Scandinavia, hard frost was again experienced in many places.

At the close of the week a depression was again skirting our southwest coasts in a southeasterly direction and moderate E. gales were setting in over the Channel and southeast of England. In the northern districts the conditions were affected by the Scandinavian anticyclone which was steadily increasing both in size and 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 made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. The time at each Station is the Standard Time of its Country.

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DAILY WEATHER REPORT

for 8 a.m. on TUESDAY 3RD JANUARY. 1893

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. Reading at 32° F. and Sea Level.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	THIS MORNING. (See note at bottom of last page.) Barometer. Reading at 32° F. and Sea Level.	Barometer. Change since Yesterday Morn.	Shade Temp. Dry Bulb.	Shade Temp. Wet Bulb.	Shade Temp. Change in dry since Yesterday.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	Sea (0 to 9).	PAST 24 HOURS. Weather.	Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
		Ins.	°				Ins.		°	°	°							°	Ins.
SCANDINAVIA	Haparanda ...	30.92	-8	ESE	4	bc	30.99	+.04	-5	-6	+14	2	0	0	*	bc	10	2	—
	Hernösand ...	30.52	-10	NE	8	d	30.95	+.31	9	2	+1	N	4	0	*	d	14	-10	0.59
	Stockholm ...	30.13	18	ENE	2	c	30.53	+.65	25	23	+12	E	2	c	*	c	2	10	0.16
	Wisby	30.11	18	d	4	b	30.42	+.73	23	23	+4	ENE	6	0	*	b	25	14	0.08
	Bodö	30.70	16	E	4	b	30.95	+.05	15	15	+7	E	4	b	2	b	16	5	—
	Christiansund...	30.25	15	ENE	8	b	30.41	+.20	19	16	+6	ENE	6	b	3	b	19	13	—
	Skudesnaes ...	30.04	20	ESE	6	c	30.24	+.16	23	21	+4	ENE	4	bc	2	b, c	2	19	—
	Christiania Fjord (Furder)	30.04	13	NNE	8	f	30.35	+.30	21	21	+12	ENE	5	0	2	f	9	9	—
	Skagen (The Scaw)	29.94	21	ENE	5	d	30.26	+.44	24	22	+10	ENE	5	0	4	d	9	12	0.16
	Fanö	29.88	15	NE	2	bc	30.10	+.35	15	14	0	ESE	4	b	*	bc	18	12	—
BRITISH ISLANDS	Sumburgh Head	29.94	32	N	4	d	30.07	-.05	32	31	0	ENE	8	0	3	d	36	26	0.10
	Stornoway ...	30.13	32	N	2	0	30.15	-.05	33	33	+2	N	4	8	4	d, 0	35	30	0.03
	Wick	30.10	36	N	5	0	30.06	-.04	34	33	+6	N	1	8	1	0	37	27	0.08
	Nairn	30.03	36	NW	3	0	30.10	-.07	35	35	+9	NW	3	0	2	0	36	24	0.07
	Aberdeen ...	29.95	34	NW	5	bc	30.10	-.04	32	30	+4	E	5	8 g q	5	bc d f	35	28	0.24
	Leith	30.06	28	N	2	bc	30.09	-.05	32	31	+2	N	8	bc	*	bc	35	27	—
	Shields	30.02	24	W	3	b	29.97	-.10	29	29	-2	WNW	8	bc	4	d f b	33	22	0.02
	Spurn Head ...	29.97	29	WNW	5	cq	29.99	+.01	32	32	+4	WNW	4	c	4	d f c q	34	26	0.05
	York	30.06	25	N	1	0	30.03	-.03	31	31	+11	N	1	bc	*	0	31	19	0.02
	Loughborough	30.09	22	WNW	2	b	30.10	+.05	29	28	+7	WNW	4	0 d f	*	b	30	21	—
	Ardrossan ...	30.13	33	N	2	b	30.11	-.07	31	30	+6	NNE	1	bm	0	b	33	23	—
	Malin Head ...	30.20	31	W	1	b	30.15	-.03	38	36	+7	N	4	c	3	b	39	30	0.02
	Mullaghmore ...	30.22	28	E	2	b	30.22	+.06	28	28	-2	SSW	8	b	2	b	36	24	—
	Belmullet ...	30.19	30	E	2	b	30.22	+.08	27	27	-2	E	2	b	*	b	35	25	—
	Donaghadee ...	30.18	28	W	3	b	30.13	-.05	32	32	0	W	4	c	3	b	33	28	0.02
	Liverpool (Bidston)	30.14	30	NW	3	b	30.08	-.04	36	34	+12	W	7	0	4	b	36	24	0.03
	Holyhead ...	30.16	32	NNE	2	c	30.14	+.03	36	36	+7	NW	5	c q	4	c	36	29	—
	Parsonstown ...	30.21	27	Z	0	b	30.25	+.10	16	15	-7	Z	0	b q	*	b	33	15	—
	Valencia	30.16	34	E	3	b	30.24	+.20	32	30	-4	ENE	2	b	2	b	40	30	—
	Roche's Point	30.20	32	E	3	b	30.23	+.15	30	30	-5	N	2	b	3	b	40	26	—
	Pembroke (St. Ann's Hd.)	30.18	28	E	2	bc	30.21	+.11	36	34	+10	NW	2	bc	2	bc	36	25	—
	Scilly	30.14	34	NE	2	bc	30.24	+.21	37	34	-1	WSW	1	c	2	bc	37	30	—
	Prawle Point ...	30.17	25	N	2	b	30.26	+.15	31	29	+9	W	2	a	1	b	34	22	—
	Jersey (St. Aubin's)	30.13	32	SW	3	bcm	30.28	+.26	28	27	+8	NNW	3	c m g	3	b c q f b m	34	20	0.05
	Hurst Castle ...	30.14	29	NNE	3	b	30.20	+.11	28	28	+7	NNW	4	bc	2	b m, b	30	21	—
GERMANY & HOLLAND	Dungeness ...	30.00	21	N	3	bc	30.12	+.23	23	23	+4	NW	3	b	2	b, bc	27	11	—
	North Foreland	29.94	27	N	3	b	30.11	+.25	22	20	-8	WNW	2	b	3	b c q b	30	20	—
	London	30.09	25	N	3	b	30.15	+.18	24	24	-1	W	1	0	*	b, c	28	19	—
	Oxford	30.13	22	N	1	b	30.16	+.12	26	25	+4	WSW	2	0	*	b	28	19	—
	Cambridge ...	30.06	19	NW	1	b	30.11	+.13	27	27	+4	W	2	0	*	b	27	19	0.02
	Yarmouth ...	29.94	29	NNE	4	bc	30.02	+.14	23	23	-4	N	3	c f	5	c, bc	30	20	0.15
	Cuxhaven ...	29.98	21	ENE	3	bc	30.16	+.42	12	10	-8	NE	1	m	*	bc	22	11	—
	Berlin	†	12	SW	1	b	30.20	+.35	10	9	+3	S	1	0	*	b	16	7	—
	Wiesbaden ...	*	*	*	*	*	30.15	+.37	17	17	0	N	1	d	*	*	23	12	0.04
	Munich ...	29.89	4	W	2	bc	30.08	+.37	10	10	+6	W	5	d	*	bc	10	3	0.04
	The Helder ...																		
FRANCE AND BELGIUM	Brussels (9 a.m.)	*	*	*	*	*	30.18	+.26	25	25	+8	WSW	1	d	*	0	26	17	—
	Cape Gris Nez	29.94	27	N	1	0	30.08	+.24	28	28	+3	W	4	bc	4	0	28	23	—
	Paris	30.04	15	W	2	bc	30.20	+.31	16	16	+2	W	1	bc	*	bc	32	14	—
	Brest	†	36	Z	0	c	†	†	33	33	+6	E	1	bc	2	c	45	25	—
	Lorient	30.13	34	NNW	3	b	30.28	+.31	32	25	+7	E	2	b	2	b	37	25	—
	Rochefort ...	30.08	30	N	3	b	30.20	+.33	25	24	+6	ENE	3	b	*	b	30	14	—
	Belfort	†	6	E	3	0	†	†	7	7	-1	SE	3	0	*	0	18	3	—
	Lyons	30.02	17	N	4	0	30.21	+.35	14	13	+3	N	2	b	*	0 d	18	11	0.08
	Nice	29.34	32	NE	4	0	29.54	+.18	29	22	-7	NE	3	bc	2	0	41	27	—
	Perpignan ...	29.97	30	NW	6	b	30.10	+.37	30	27	-1	NW	5	bc	*	b	39	28	—
	Biarritz	30.11	37	ENE	4	b	30.21	+.33	30	28	+7	S	2	0	2	b	27	21	—
PENINSULA	Corunna	*	*	*	*	*	30.08	+.14	41	40	-4	NNE	3	b	*	b	54	37	—
	Lisbon																		

For Explanation of Columns, see bottom of last page

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

WEATHER CHARTS

for 8 a.m. on Tuesday 3rd JANY. 1893

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

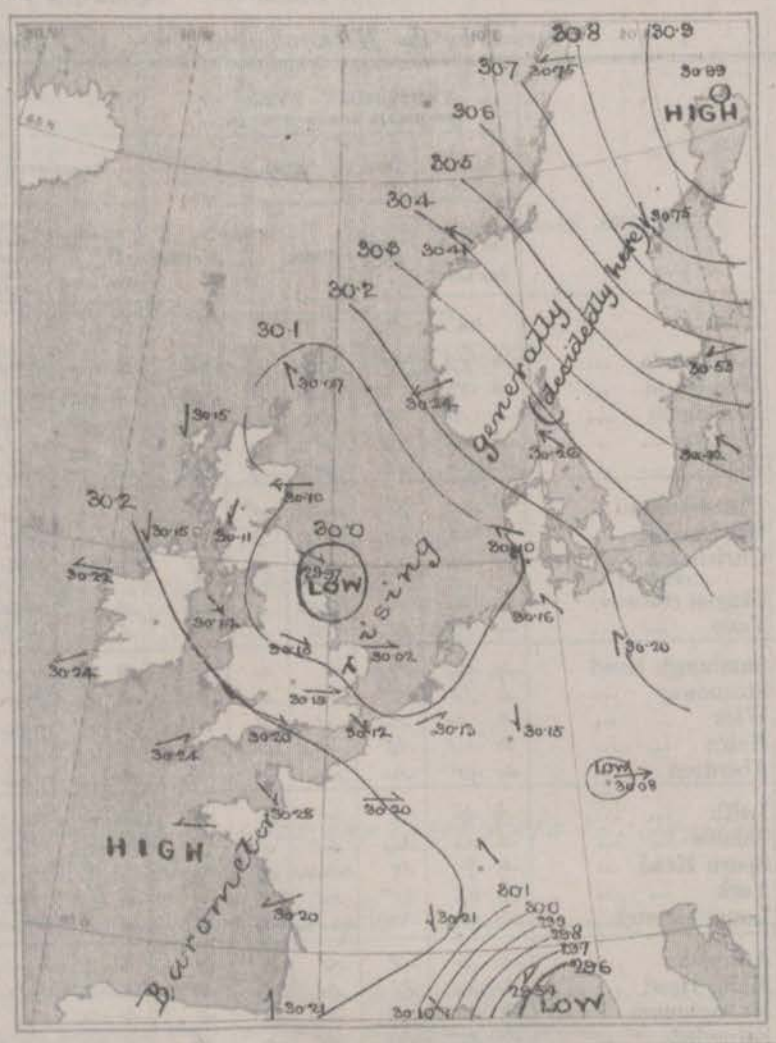
BAROMETER.—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

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

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

SEA DISTURBANCE.—Where considerable, is shown thus

= Rough. = High.



MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of January. During the 20 Years: 1871—1890.

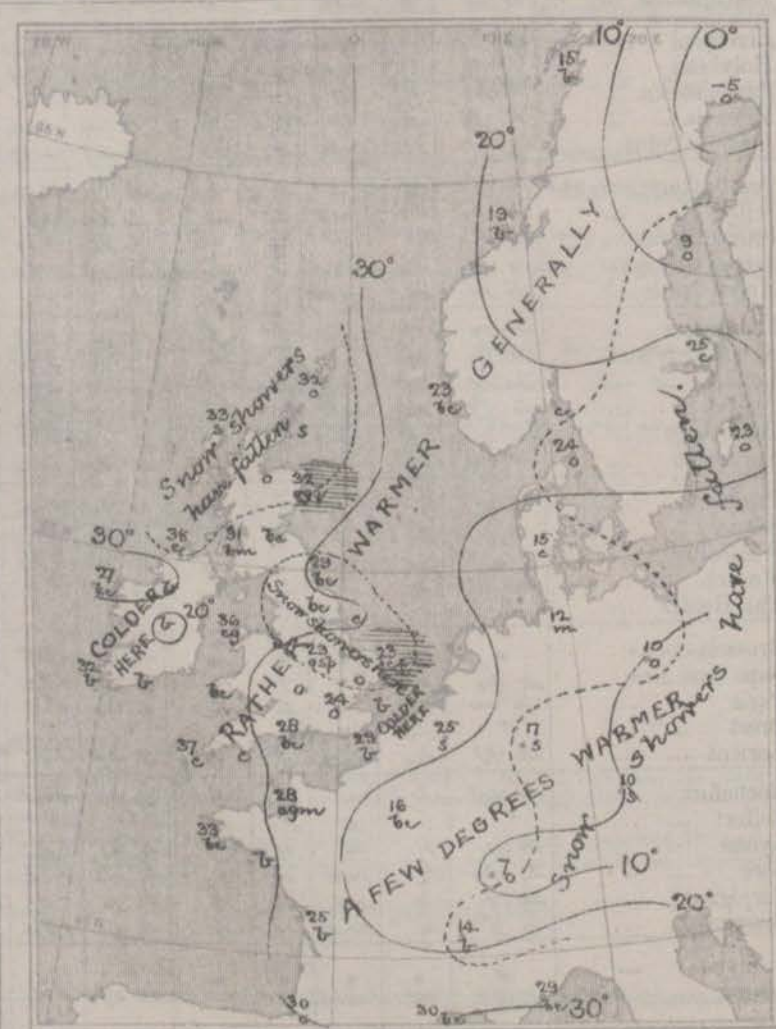
STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29·675
Stornoway	29·682
Wick	29·719
Nairn	29·745
Aberdeen	29·787
Leith	29·835
Shields	29·881
Spurn Head	29·926
York	29·932
Loughborough	29·967
Ardrossan	29·848
Mullaghmore	29·817
Donaghadee	29·855
Holyhead	29·902
Liverpool	29·924
Parsonstown	29·895
Valencia	29·987
Roche's Point	29·908
Pembroke	29·936
Scilly	29·969
Prawle Point	30·006
Jersey	30·022
Hurst Castle	30·002
Dover	30·014
LONDON	30·006
Oxford	29·993
Cambridge	29·993
Yarmouth	29·979

TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE.—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shown by Letters of the Beaufort Scale.

RAINFALL.—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.



MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of January.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	at 8 a.m. Wet.	RAINFALL. (Inches).
Sumburgh Head	42·9	35·6	39·7	38·4	3·72
Stornoway	43·3	34·5	39·5	38·4	5·30
Wick	42·4	33·3	38·2	36·8	2·05
Nairn	42·2	32·9	37·2	35·0	1·99
Aberdeen	42·4	33·2	37·3	35·8	2·34
Leith	44·4	34·7	38·0	37·2	1·93
Shields	43·9	34·2	38·2	36·9	1·75
Spurn Head	41·7	34·5	37·7	36·7	1·85
York	42·7	32·5	36·7	35·7	1·87
Loughborough	42·0	34·3	36·4	35·4	2·04
Ardrossan	44·2	39·2	40·0	38·8	1·25
Mullaghmore	46·1	38·0	41·6	40·4	1·36
Donaghadee	44·4	36·1	40·0	39·2	2·98
Holyhead	45·6	38·7	41·7	40·8	3·28
Liverpool	43·5	35·2	38·6	37·0	2·22
Parsonstown	45·6	34·2	38·9	37·8	3·12
Valencia	49·5	40·4	44·5	43·3	6·69
Roche's Point	47·7	39·5	43·2	41·9	5·50
Pembroke	45·5	39·6	42·7	41·3	3·75
Scilly	48·8	42·9	46·8	44·9	4·73
Prawle Point	46·2	37·6	42·0	41·0	3·09
Jersey	45·8	38·3	41·8	40·4	3·21
Hurst Castle	45·0	38·8	40·5	39·5	2·94
Dover	43·5	35·8	39·2	38·1	2·58
LONDON	44·1	33·8	37·6	36·6	2·12
Oxford	43·1	33·6	37·1	36·1	2·26
Cambridge	43·3	31·7	36·2	35·4	1·54
Yarmouth	41·8	31·8	37·5	36·2	1·95

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.9 ins. and upwards in the north of Sweden; 30.1 ins. and upwards over Ireland, the south of England and the western and central parts of France.
Lowest 29.6 ins. and less in a depression lying over the Gulf of Genoa; 30.0 ins. and less in a shallow system lying off the northeast of England.
Gradients steep over the south of France, but moderate or slight elsewhere.
Barometer rising generally, but falling slightly in the north of England.

TEMPERATURE

Highest 41° at Lisbon, 38° at Malin Hd., 37° at Scilly, 36° at Holyhead, Liverpool & Pembroke & 35° at Nairn
Lowest −5° F. at Haparanda, +7° at Belfort, 9° at Hernösand, 10° at Berlin & Munich, and 12° at Cuxhaven.
Hard frost was again experienced over England last night; at Dungeness the sheltered thermometer fell to 11° and at Cambridge to 17°.

WIND

Light or moderate from the N.wd. over the greater part of Scotland, but W.ly or NW.ly over England, with a moderate gale at Liverpool.
Variable in Ireland; light from the E.wd. in the west of France, N.ly or NW.ly in the south of France.
Moderate to fresh from the E.wd. or SE.wd. over the greater part of Scandinavia and Denmark.

WEATHER

Fine at most of our western and southern stations, as well as in France and the west of Norway.
Cloudy or overcast in nearly all other localities, with snow over the north of Scotland and central England, as well as at Brussels, Wiesbaden and Munich.
Snow fell yesterday at many of our N.rn., E.rn. and SE.rn. stations, as well as at Jersey.

SEA

Rather rough at Aberdeen and Yarmouth, moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression off the east of England is moving slowly southwards, and snow showers are therefore probable in many parts of our southern districts. In the extreme north of Scotland there are some indications of the approach of another shallow system from the northward.

FORECASTS

For the 24 hours ending at NOON on 4th January 1893.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	N.ly and NE.ly winds, fresh or strong; unsettled, some snow.
2 ENGLAND N.E. 3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	W.ly and NW.ly winds, moderate; changeable, some snow showers. Temperature rising somewhat.
6 SCOTLAND WEST	N.ly winds, light or moderate; fair generally, but some snow showers.
7 ENGLAND N.W.	NW.ly and N.ly winds, fresh; changeable, some snow showers.
8 ENGLAND S.W.	NW.ly winds, freshening; fine to unsettled and some snow showers.
9 IRELAND NORTH 10 IRELAND SOUTH	Same as No. 6.
WARNINGS	At 7.45 pm. to district 0 and part of 1 "Hoist NORTH CONE".

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.97	22	18	NE	2	b	2
Sumburgh Head	29.97	35	34	N	2	d	4
Stornoway	30.16	34	34	NW	2	d	3
Aberdeen							
Shields	30.06	23	23	NW	2	d	5
Ardrossan	30.16	32	32	N	2	b	1
Malin Head ...	30.20	32	31	E	2	b	0
Mullaghmore ...	30.20	33	31	E	4	b	2
Belmullet	30.17	35	32	E	2	b	*
Holyhead	30.15	32	31	E	2	a	2

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30.13	40	35	ESE	4	b	4
Scilly	30.11	36	33	ENE	4	be	3
Jersey	30.06	34	32	NNW	3	bes	3
Hurst Castle ...	30.06	39	39	NNE	4	bm	2
Dungeness	29.93	39	39	N	4	b	3
North Foreland ...	29.92	39	39	N	6	beq	6
London	30.02	38	39	NNW	3	b	*
Yarmouth	29.90	39	39	N	4	c	5
Rochefort	30.06	39	[illegible]	E	2	b	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather fine in most parts of Ireland, England, France and Spain, as well as in the west of Norway, but snow showers falling in the southeast of England. Cloudy or overcast in nearly all other localities, with snow in many parts of Denmark, Sweden, Russia and Austria, and with rain at Coruna, Nice, Naples and Malta. Snow falling later over the northern and eastern parts of Great Britain, as well as in Jersey.

Temperature rises quickly in Finland and central Russia and to a less extent in Italy, but falls in nearly all other countries. Morning readings highest 58° at Oran, 56° at Algiers and Malta, and 53° at Lesina, above 45° over the southern parts of Italy and also on the coasts of the Iberian peninsula. Lowest −39° F. at Archangel, −19° at Haparanda, −8° at Uleaborg and −5° at Cracow; below 10° over the greater part of central Europe and below the freezing point in all but the most southern countries and the extreme southwest of our Islands. Remaining below 32° all day in many parts of England and below 20° over central France, but exceeding 40° in the Riviera and reaching 54° at Lisbon.

Wind light to fresh from the N^ly. in the north and east of Gt. Britain and from the E^ly. in the western parts of our Islands and France. Strong to a gale from the E^ly. over the Gulf of Finland and from the NE^ly. over Denmark and the southern parts of Scandinavia. Light from SE. over central Russia, variable in Germany and Austria. E^ly. or SE^ly. in Italy, but NW^ly. in Spain, Algeria and the extreme south of France, with a gale at Toulon. Gale in Sweden extending later no important change occurring elsewhere.

Barometer highest 31.18 inches at Archangel, 30.7 ins. and less in Lapland and northern Russia generally. Lowest 29.4 ins. and less in a depression lying over northern Italy and the Gulf of Genoa; 29.6 ins. and less in another system lying over the southern parts of the Baltic, gradients very steep over Sweden, Finland and western Russia. Baltic depression subsequently filling up gradually but small secondary disturbance forming off the northeast of Scotland.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

N.B.—The morning observations are made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. 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 4th January 1893

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. Reading at 32° F. and Sea Level.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	THIS MORNING. (See note at bottom of last page.) Barometer. Reading at 32° F. and Sea Level.	Barometer. Change since Yesterday Morn.	Shade Temp. Dry Bulb.	Shade Temp. Wet Bulb.	Shade Temp. Change in dry since Yesterday.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	Sea (0 to 9).	PAST 24 HOURS. Weather.	Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
		Ins.	°				Ins.		°	°	°							°	Ins.
SCANDINAVIA.	Haparanda ...	31·12	8	L	0	0	31·12	+ 0·13	−10	−10	− 5	L	0	0	*	0	16	−18	—
	Hernösand ...	31·02	7	N	4	0	30·78	+ 0·03	10	10	+ 1	N	4	5	*	0	12	3	0·04
	Stockholm ...	30·65	21	ENE	6	0	30·69	+ ·16	19	18	− 6	ENE	2	0	*	0	27	18	—
	Wisby	30·49	25	SE	4	5	30·57	+ ·15	24	23	+ 1	SE	4	0	*	5	28	14	0·08
	Bodö	30·97	19	E	4	0	30·97	+ ·22	18	16	+ 3	E	4	bc	2	0	19	12	—
	Christiansund...	30·69	22	ESE	6	b	30·62	+ ·21	26	23	+ 7	ESE	6	0	3	b	27	19	—
	Skudesnaes ...	30·51	24	E	4	b	30·50	+ ·26	27	24	+ 4	E	4	0	2	b	27	23	—
	Christiania Fjord (Færder)	30·51	26	NE	5	5	30·60	+ ·25	24	23	+ 3	NE	5	5	3	5	27	21	—
	Skagen (The Skaw)	30·39	29	ESE	6	5	30·47	+ ·21	27	27	+ 3	SE	5	5	3	5	28	23	0·05
	Fanö	30·39	14	SE	1	b	30·45	+ ·35	?2	?2	− 13	NE	1	b	*	b	27	?	—
BRITISH ISLANDS	Sumburgh Head	30·34	30	ESE	3	c	30·42	+ ·35	31	30	− 1	SSE	2	osp	3	c	32	27	0·04
	Stornoway ...	30·23	38	N	3	5	30·32	+ ·17	29	29	− 4	N	3	c	3	c,5	36	29	0·02
	Wick	30·25	31	E	2	bc	30·34	+ ·28	34	34	0	SE	4	0	5	bc	34	20	0·12
	Nairn	30·22	31	L	0	bc	30·35	+ ·25	27	26	− 8	L	0	bc	1	bc,5	35	22	0·02
	Aberdeen ...	30·29	29	NW	2	0g	30·40	+ ·30	33	30	+ 1	SSE	3	c	4	gps	33	29	0·06
	Leith	30·26	39	L	0	0	30·38	+ ·29	31	30	− 1	L	0	om	*	0	34	28	0·01
	Shields	30·22	34	NE	2	0	30·38	+ ·41	30	29	+ 1	WNW	1	0	4	5,0	37	25	0·01
	Spurn Head ...	30·15	35	NNE	4	0	30·34	+ ·35	31	31	− 1	NW	3	bc	4	osp	35	29	—
	York	30·22	30	NNW	1	0	30·39	+ ·36	27	27	− 4	N	1	b	*	0	34	26	—
	Loughborough	30·20	22	WNW	1	b	30·41	+ ·31	21	21	− 8	ESE	1	f	*	b	33	13	0·02
	Ardrossan ...	30·28	31	L	0	omw	30·34	+ ·23	29	29	− 2	NE	2	s	1	bm,0	37	28	0·04
	Malin Head ...	30·28	34	S	2	0	30·32	+ ·17	35	31	− 3	S	2	o	1	b,0	39	33	—
	Mullaghmore ...	30·29	32	SSW	1	b	30·33	+ ·11	31	30	+ 3	NE	4	b	3	csp,b	38	27	—
	Belmullet ...	30·28	33	E	2	b	30·27	+ ·05	32	31	+ 5	E	2	b	*	bc,b	38	26	—
	Donaghadee ...	30·29	37	N	3	b	30·37	+ ·24	31	30	− 1	WNW	3	bc	1	b	39	30	—
	Liverpool (Bidston)	30·24	33	N	2	c	30·42	+ ·34	26	26	− 10	SE	1	b	1	c	36	23	0·01
	Holyhead ...	30·25	38	N	4	bc	30·38	+ ·24	29	29	− 7	L	0	bm	0	bcsp,bc	39	29	—
	Parsonstown ...	30·31	25	L	0	b	30·33	+ ·08	20	19	+ 4	L	0	o	*	b	31	15	—
	Valencia	30·26	40	E	3	c	30·23	− ·01	45	41	+ 13	SE	5	o	4	bmw	45	29	—
	Roche's Point	30·28	31	ENE	2	b	30·30	+ ·07	44	42	+ 14	SE	4	c	4	bmw	44	28	—
	Pembroke (St. Ann's Hd.)	30·25	36	NNW	2	bc	30·35	+ ·14	35	33	− 1	ENE	2	cg	2	bc	39	34	—
	Scilly	30·27	40	S	2	c	30·31	+ ·07	42	38	+ 5	SSE	3	c	1	bc,c	43	33	—
	Prawle Point ...	30·29	33	WNW	2	b	30·37	+ ·11	32	31	+ 1	NE	2	bc	1	b	39	30	—
	Jersey (St. Aubin's)	30·31	35	WNW	2	csp	30·37	+ ·09	?29	28	+ 1	NW	3	bc	3	c,sp	40	25	0·02
	Hurst Castle ...	30·25	35	WNW	3	c	30·38	+ ·18	26	26	− 2	WNW	2	bm	2	c	35	24	—
GERMANY & HOLLAND	Dungeness ...	30·21	32	WNW	2	0	30·34	+ ·22	15	15	− 8	NNW	3	f	1	c,0	32	12	—
	North Foreland	30·20	30	WNW	2	b	30·33	+ ·22	26	25	+ 4	WNW	2	bm	3	b	31	19	—
	London	30·24	31	WNW	1	0	30·38	+ ·23	18	17	− 6	L	0	f	*	osp,b	31	17	0·02
	Oxford	30·26	28	W	1	bc	30·40	+ ·24	20	20	− 6	NW	1	f	*	csp	32	19	—
	Cambridge ...	30·21	27	W	1	0	30·40	+ ·29	12	12	− 15	NW	1	c	*	0	32	12	0·01
	Yarmouth ...	30·14	29	W	2	cf	30·31	+ ·29	22	22	− 1	W	2	bcf	4	cf	30	20	0·01
	Cuxhaven ...	30·30	18	ESE	2	0	30·44	+ ·28	18	17	+ 6	NE	2	f	*	0	19	12	—
	Berlin	30·29	?	ESE	2	0	30·32	+ ·12	22	22	+ 12	NW	2	s	*	0	23	10	0·12
	Wiesbaden ...						30·38	+ ·23	13	12	− 11	NNW	2	0	*	*	19	10	—
	Munich ...	*	*	*	*	*	30·23	+ ·15	18	13	+ 3	NW	5	s	*	s	14	10	—
	The Helder ...	30·34	25	SSE	3	c	30·37		24	24		SSE	1	c	1	c	27	?	0·04
BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	30·38	+ ·25	18	18	− 7	SE	2	o	*	0	27	17	—
	Cape Gris Nez	30·16	34	S	4	c	30·27	+ ·19	30	30	+ 2	N	1	m	1	c	34	27	—
	Paris	30·30	24	W	2	b	30·28	+ ·18	17	17	+ 1	S	1	o	*	b	32	13	—
	Brest	?	35	ESE	1	b	?	?	41	39	+ 8	S	2	o	3	b	43	33	—
	Lorient	30·34	31	SSE	1	b	30·37	+ ·09	35	33	+ 3	SE	3	c	2	b	41	28	—
FRANCE AND PENINSULA.	Rochefort ...	30·31	28	E	3	b	30·33	+ ·13	24	23	− 1	ENE	3	b	*	b	30	21	—
	Belfort	?	13	W	1	bc	?	?	18	18	+ 11	W	3	c	*	bc	21	?	—
	Lyons	30·06	22	N	3	0	30·30	+ ·09	18	7	+ 4	N	5	c	*	0	24	14	—
	Nice	29·69	32	ENE	1	b	29·81	+ ·27	33	26	+ 4	E	1	b	2	b	39	28	—
	Perpignan ...	30·15	30	NW	5	b	30·12	+ ·02	32	27	+ 2	NW	7	b	*	b	36	29	—
	Biarritz	30·27	33	E	2	b	30·30	+ ·09	21	19	− 9	E	4	b	2	b	37	18	—
	Corunna	*	*	*	*	*										*			
	Lisbon	30·12	48	NNE	4	b	30·14	+ ·06	41	39	0	NNE	4	b	*	b	54	41	—

For Explanation of Columns, see bottom of last page.

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

WEATHER CHARTS

for 8 a.m. on Wednesday, 4th January 1893.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

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

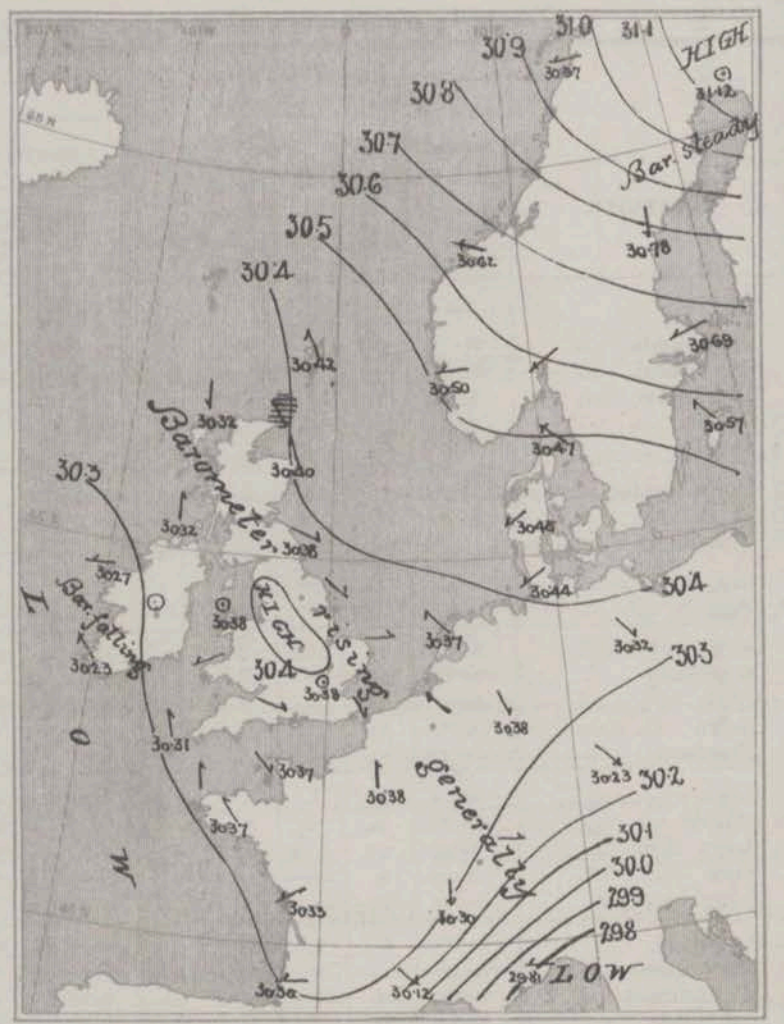
WIND - Arrows shew the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus—
= forces above 10; = forces 8 to 10;
= forces 5 to 7; = forces 1 to 4.
⊙ = dead calm.

SEA DISTURBANCE—Where considerable, is shewn thus:
= Rough. = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of January.
During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29·675
Stornoway	29·682
Wick	29·719
Nairn	29·745
Aberdeen	29·787
Leith	29·825
Shields	29·881
Spurn Head	29·926
York	29·932
Loughborough	29·967
Ardrossan	29·838
Mullaghmore	29·817
Donaghadee	29·855
Holyhead	29·902
Liverpool	29·924
Parsonstown	29·895
Valencia	29·887
Roche's Point	29·908
Pembroke	29·936
Scilly	29·969
Prawle Point	30·006
Jersey	30·012
Hurst Castle	30·002
Dover	30·012
LONDON	30·006
Oxford	29·999
Cambridge	29·993
Yarmouth	29·979



TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shown by Letters of the Beaufort Scale.

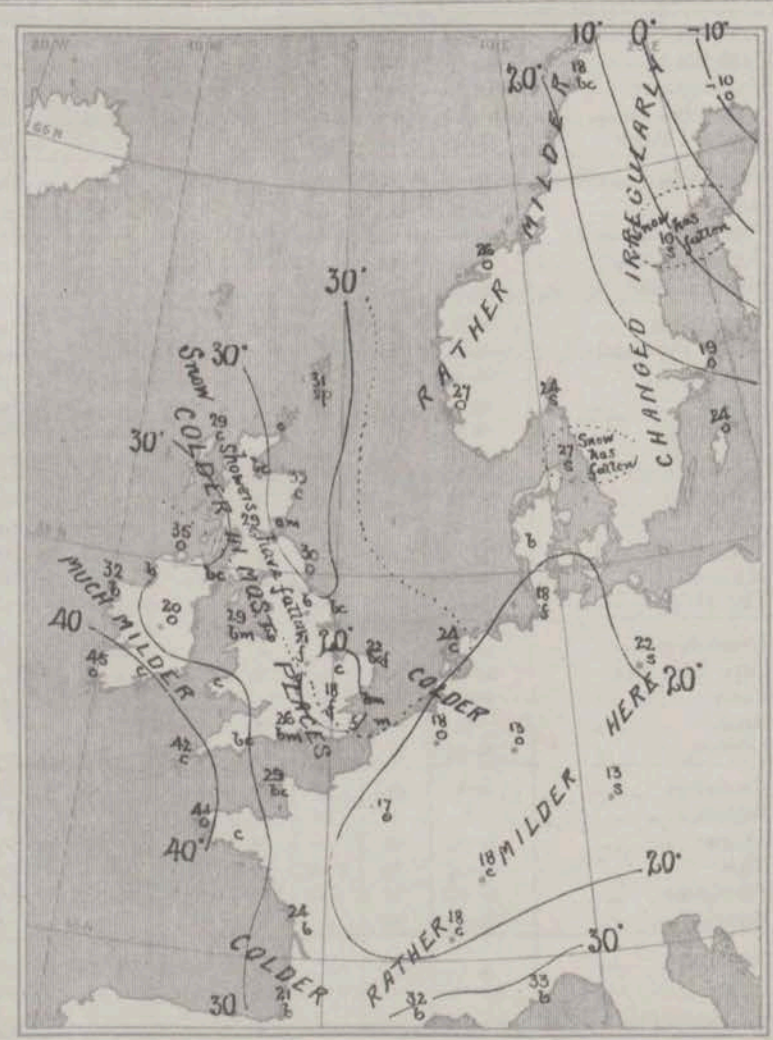
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of January.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	RAINFALL. (Inches.)
Sumburgh Head	42·9	35·6	39·7	38·4	3·72
Stornoway	43·3	34·5	39·5	38·4	5·30
Wick	42·4	33·3	38·2	36·8	2·05
Nairn	42·2	32·9	37·2	35·6	1·99
Aberdeen	42·4	33·2	37·3	35·6	2·31
Leith	44·4	33·7	38·6	37·2	1·93
Shields	43·0	34·2	38·2	36·9	1·75
Spurn Head	41·7	34·5	37·7	36·7	1·35
York	42·7	32·5	36·7	35·7	1·87
Loughborough	43·0	32·3	36·4	35·4	2·04
Ardrossan	44·2	36·3	40·0	38·8	4·25
Mullaghmore	46·1	38·0	41·6	40·4	4·36
Donaghadee	44·4	36·1	40·0	39·2	2·98
Holyhead	45·6	38·7	41·7	40·3	3·38
Liverpool	43·5	35·2	38·6	37·0	2·22
Parsonstown	45·6	34·2	38·9	37·8	3·12
Valencia	49·5	40·4	44·5	43·3	6·69
Roche's Point	47·7	39·5	43·2	41·9	5·50
Pembroke	45·5	39·6	42·7	41·3	3·75
Scilly	48·8	42·9	46·4	44·9	3·73
Prawle Point	46·2	37·6	42·0	41·0	3·09
Jersey	45·8	38·3	41·8	40·4	3·21
Hurst Castle	45·0	36·3	40·3	39·5	2·94
Dover	43·5	35·8	39·2	38·1	2·58
LONDON	44·1	33·6	37·6	36·6	2·12
Oxford	43·1	33·6	37·1	36·1	2·26
Cambridge	43·3	31·7	36·2	35·4	1·54
Yarmouth	41·5	34·8	37·5	36·7	1·95

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 31·12 ins. at Haparanda, (a very unusual reading for any of our stations); 30·4 ins and upwards over the whole of Scandinavia, Denmark, the North Sea and the Baltic as well as over central England.
Lowest 29·9 ins. and less in a depression lying over the Bay of Biscay. 30·2 ins. and less to the S.W. of our Islands.
Gradients moderate over Scandinavia, but slight elsewhere.
Barometer rising generally, but falling a little in the west of Ireland.

TEMPERATURE

Highest 45° at Valencia Island, 44° at Roche's Point, 42° at Scilly, 41° at Lisbon, & 35° at Malin H.; Pointe de Grave
Lowest (1) −18 F. at Haparanda, +10° at Hernösand and 19° at Stockholm; (2) 12° at Cambridge, 15° at Dungeness, and 18° in London; (3) 13° at Wiesbaden and Munich, and 17° at Paris.
In the course of the past night the thermometer has fallen to 12° at Dungeness and Cambridge, to 13° at Loughborough, and to 17° in London.

WIND

Light or moderate from the E^ly. in the west of France and from the SE^ly. on our extreme southwest coasts; as well as in the east of Scotland.
Light from the NW^ly. in the east and southeast of England and also in Germany.
Moderate to fresh from the E^ly. or NE^ly. in Scandinavia and Denmark.

WEATHER

Fine on many parts of the English and Irish coasts, but foggy at the inland stations over England; dull in Scotland, with snow at Stornoway H^d. and Ardrossan.
Fine and bright in the west and south of France, but snow falling in many parts of Scandinavia, Denmark & Germany.
Snow showers fell yesterday in various parts of the United Kingdom.

SEA

Moderate to smooth generally, but rather rough at Wick

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are at present no signs of any material change in the weather. Anticyclonic conditions seem likely to hold over the greater part of western Europe but low pressure systems may possibly appear off our extreme south west coasts.

FORECASTS

For the 24 hours ending at NOON on 5th January 1893.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	Variable or SE^ly. airs; fair generally. Colder.
2 ENGLAND N.E. 3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	Light variable airs; very cold, with thick local fogs.
6 SCOTLAND WEST 7 ENGLAND N.W.	Light breezes, chiefly E^ly.; fair generally, but local fogs.
8 ENGLAND S.W.	E^ly. and SE^ly. winds, light; fair generally.
9 IRELAND NORTH	Same as No^s. 6 and 7.
10 IRELAND SOUTH	SE^ly. winds, moderate or fresh; dull, rain or sleet locally.
WARNINGS	At 7·15 p.m. yesterday to district 0 and part of 1 "LOWER CONE".

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.		BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·41	27	23	ESE.	4	c	4	Valencia	30·24	42	38	ESE.	2	bcm	2
Sumburgh Head	30·26	31	29	SE.	3	o	3	Scilly	30·26	41	36	ENE	1	bc	0
Stornoway	30·19	36	35	NNW	3	c	4	Jersey	30·30	38	37	NW	3	c	3
Aberdeen	30·22	31	30	NW	1	ogsp	5	Hurst Castle ...	30·31	35	35	WNW	3	c	2
Shields	30·11	36	34	NE	4	c	5	Dungeness... ...	30·18	30	30	WNW	2	c	1
Ardrossan	30·22	36	35	E	0	bm	0	North Foreland...	30·18	31	30	WNW	2	b	3
Malin Head ...	30·22	38	34	E	2	b	2	London	30·17	32	31	WNW	1	omg	*
Mullaghmore ...	30·25	35	32	S	2	csp	2	Yarmouth	30·06	29	29	W	3	bcf	4
Belmullet	30·21	37	33	E	2	bv	*	Rochefort	30·25	33	31	E	2	b	*
Holyhead	30·18	38	35	NNE	4	bcsp	4								

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

Weather fine at most of our own western and southern stations and also in France, Spain and the west of Norway. Dull elsewhere, with snow in central England and the north of Scotland, as well as in Belgium, south Germany and Poland; fog reported in the south of Russia. Snow showers falling during day in many parts of Great Britain.

Temperature fallen over Ireland and the greater part of southern Europe, but risen in most other localities. Morning readings highest 55° at Nemours, 53° at Malta, 51° at San Fernando, and 49° at Algiers, above 40° over the central and southern parts of the Mediterranean generally, as well as on the coasts of Spain. Lowest −35° F. at Archangel, −5° at Haparanda, +1° at Ulealorg and Moscow, and 2° at Warsaw; below 20° over northern and central Europe generally, as well as over central Ireland; below the freezing point in all but the extreme southern parts of the Continent, but above it in the west and north of Great Britain. Continuous frost prevailing throughout the day in many parts of England and the Continent and thermometer remaining below 40° even in the Riviera.

Wind light or moderate from the N^ly. in Scotland and from the W^ly. or NW^ly. over England as well as in south Germany. Variable in Ireland, but E^ly. in the west of France and NE^ly. in Spain. Moderate to strong from the E^ly. or SE^ly. over Scandinavia and Denmark and light from the same quarter in Russia. Strong from NE over the northern parts of Italy and the Adriatic and from NW in the south of France and eastern Algeria, light from the W^ly. in the south of Italy. No important change occurring over western Europe during day.

Barometer highest 31·25 ins. at Archangel, 30·8 ins. and upwards in an anticyclone lying over all the northern parts of Russia and Sweden; 30·2 ins. and upwards in another system covering the S.W. of our Islands and the greater part of France. Lowest 29·5 ins. and less in a large depression of elongated form extending from the neighbourhood of Corsica to Servia and Bosnia; 30·0 ins. and less in a shallow system lying off the N.E. of England. Large anticyclone in far north subsequently spreading out in a S.W^ly. direction and depression off our N.E. coasts filling up.

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 made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. 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 5th January 1893

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. Reading at 32° F. and Sea Level.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	THIS MORNING. (See note at bottom of last page.) Barometer. Reading at 32° F. and Sea Level.	Barometer. Change since Yesterday Morn.	Shade Temp. Dry Bulb.	Shade Temp. Wet Bulb.	Shade Temp. Change in dry since Yesterday.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	Sea (0 to 9).	PAST 24 HOURS. Weather.	Shade Temp. Max	Shade Temp. Min.	Amount of Rainfall.
		Ins.	°				Ins.		°	°	°							°	Ins.
SCANDINAVIA.	Haparanda ...	30·71	−21	N	0	c	31·00	− ·12	−22	−22	− 12	N	0	b	*	c	−4	−22	—
	Hernösand ...	30·93	12	N	4	s	30·92	+ ·14	10	9	0	N	2	3	*	s	16	3	0·16
	Stockholm ...	30·74	24	NE	2	0	30·73	+ ·04	30	30	+ 11	ESE	2	0	*	0	?	16	0·04
	Wisby	30·64	27	SE	4	r	30·65	+ ·08	30	29	+ 6	SSE	4	0	*	r	30	19	—
	Bodö	30·85	25	E	4	bc	30·77	− ·20	22	21	+ 4	E	4	b	2	bc	25	16	—
	Christiansund...	30·65	26	ESE	3	bc	30·58	− ·04	27	25	+ 1	ESE	3	c	3	bc	27	23	0·43
	Skudesnaes ...	30·59	26	E	4	s	30·49	− ·01	28	25	+ 1	E	4	0	2	s	28	25	0·35
	Christiania Fjord (Faerder)	30·66	20	NNE	5	s	30·52	− ·08	24	24	0	N	5	s	2	s	24	19	—
	Skagen (The Skaw)	30·55	26	ESE	5	s	30·44	− ·03	31	30	+ 4	ESE	4	s	3	s	?	25	0·24
	Fanö	30·44	26	ENE	1	c	30·38	− ·07	25	25	+ 23	NE	2	c	*	c	27	22	—
BRITISH ISLANDS	Sumburgh Head	30·45	30	SE	2	c	30·40	− ·02	29	27	− 2	NNE	1	c	3	c	33	24	—
	Stornoway ...	30·93	29	N	0	bc	30·35	+ ·03	25	25	− 4	N	2	b	2	bc	37	22	—
	Wick	30·38	34	S	4	o	30·34	·00	15	14	− 19	NW	2	bc	2	o	35	15	0·05
	Nairn	30·36	19	SW	1	b	30·38	+ ·03	25	24	− 2	N	0	o	1	b	30	11	—
	Aberdeen ...	30·44	33	SW	2	ogs	30·37	− ·03	32	31	− 1	E	5	ogs	4	c, ogs	34	29	0·30
	Leith	30·41	32	S	1	s	30·38	·00	28	27	− 3	N	0	cm	*	s	32	26	0·07
	Shields	30·44	31	N	0	m	30·41	+ ·03	26	26	− 4	SW	1	cm	3	cm	36	24	—
	Spurn Head ...	30·40	33	NNE	1	c	30·40	+ ·06	29	28	− 2	NW	2	bc	3	c	34	27	—
	York	30·46	21	NNW	1	b	30·43	+ ·04	12	12	− 15	NNW	1	b	*	b	31	8	—
	Loughborough	30·46	15	ESE	1	f	30·45	+ ·04	14	14	− 7	WNW	1	bf	*	f	24	10	—
	Ardrossan ...	30·39	37	SSE	1	cm	30·37	+ ·03	26	25	− 3	ENE	2	bm	2	cm	39	24	0·03
	Malin Head ...	30·31	33	S	4	bc	30·23	− ·09	35	34	0	S	4	ors	1	bc	38	33	—
	Mullaghmore ...	30·29	38	SSE	5	os	30·19	− ·14	37	36	+ 6	SSE	6	ofmg	4	cm og	38	30	0·01
	Belmullet ...	30·21	38	ESE	3	o	30·12	− ·15	37	37	+ 5	ESE	3	o	*	o	38	31	
	Donaghadee ...	30·40	33	S	2	b	30·33	− ·04	35	34	+ 4	S	4	bc	2	b	41	31	—
	Liverpool (Bidston)	30·46	25	SE	1	b	30·40	− ·02	23	22	− 3	SE	2	m	1	b	30	18	—
	Holyhead ...	30·40	31	ESE	1	b	30·34	− ·04	34	33	+ 5	E	2	og	1	b	36	29	—
	Parsonstown ...	30·29	37	SE	1	o	30·19	− ·14	38	37	+ 18	SE	2	or	*	o	38	20	0·13
	Valencia	30·18	46	SE	5	ogq	30·03	− ·20	46	45	+ 1	SE	6	ogm	5	rmgq	47	42	0·15
	Roche's Point	30·25	46	SSE	5	o	30·14	− ·16	45	45	+ 1	SSE	7	r	5	o	46	43	0·45
	Pembroke (St. Ann's Hd.)	30·35	36	E	3	b	30·29	− ·06	37	36	+ 2	E	5	ogm	5	b	39	33	—
	Scilly	30·29	45	SE	4	bc	30·21	− ·10	43	42	+ 1	SE	5	r	3	bc	45	37	0·09
	Prawle Point ...	30·39	35	NE	2	b	30·33	− ·04	40	37	+ 8	E	4	og	3	b	42	32	—
	Jersey (St. Aubin's)	30·40	28	NW	2	cg	30·38	+ ·01	37	35	+ 8	ESE	4	bcm	3	cm	42	27	—
	Hurst Castle ...	30·43	32	NE	1	m	30·40	+ ·02	27	27	+ 1	NE	1	m	1	m	35	21	—
	Dungeness ...	30·40	24	N	2	m	30·38	+ ·04	16	16	+ 1	N	4	f	3	m	27	14	—
	North Foreland	30·39	32	N	2	b	30·29	+ ·06	32	32	+ 6	N	2	c	3	b, f	33	22	0·01
	London	30·45	26	E	0	f	30·42	+ ·04	18	17	0	E	0	f	*	bf fg	22	15	—
	Oxford	30·45	19	E	0	b	30·45	+ ·05	16	16	− 4	E	0	bf	*	b	32	13	—
	Cambridge ...	30·43	22	E	0	b	30·43	+ ·03	16	15	+ 4	NW	1	bc	*	b	30	10	—
	Yarmouth ...	30·35	27	W	2	cf	30·36	+ ·05	29	29	+ 7	NW	2	bcf	4	bf, cf	31	21	—
GERMANY & HOLLAND	Cuxhaven ...	30·43	27	NNE	2	o	30·38	− ·06	29	28	− 11	ESE	2	o	*	o	30	18	—
	Berlin	30·35	25	NE	2	s	30·38	+ ·06	27	26	+ 5	ESE	3	o	*	s	27	25	0·08
	Wiesbaden ...	*	*	*	*	*	30·35	− ·03	22	22	+ 9	NW	2	o	*	*	23	13	—
	Munich ...	30·24	15	E	0	o	30·25	+ ·02	14	14	+ 1	NW	2	s	*	o	18	12	—
	The Helder ...	30·43	21	SSE	1	bc	30·43	+ ·06	23	23	− 1	SE	1	c	1	bc	28	21	—
BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	30·42	+ ·04	11	11	− 7	SSW	1	f	*	b	31	10	—
	Cape Gris Nez	30·33	35	N	3	c	30·31	+ ·04	33	33	+ 3	N	2	c	2	c	36	28	—
	Paris	30·40	27	E	1	o	30·41	+ ·03	23	23	+ 6	N	2	o	*	o	32	17	0·04
	Brest	?	41	SSE	2	o	?	?	39	39	− 2	SE	3	o	3	o	43	34	—
	Lorient	30·35	36	SE	2	b	30·32	− ·05	34	31	− 1	E	4	o	2	b	43	32	—
FRANCE AND	Rochefort ...	30·36	32	E	3	b	30·27	− ·06	29	29	+ 5	NE	3	c	*	b	39	21	—
	Belfort	?	20	ESE	3	o	?	?	23	22	+ 5	E	4	o	*	o	23	16	—
	Lyons	30·31	23	N	2	c	30·31	+ ·01	22	20	+ 4	N	2	o	*	c	39	18	—
	Nice	29·82	36	E	2	bc	29·90	+ ·09	37	?	+ 4	E	1	b	2	bc	46	33	—
	Perpignan ...	30·09	35	NW	1	b	30·07	− ·05	37	29	+ 5	NW	4	b	*	b	?	32	—
	Biarritz	30·30	32	E	3	b	30·25	− ·05	23	20	+ 2	SE	3	bc	1	b	36	21	—
PENINSULA.	Corunna	*	*	*	*	*										*			
	Lisbon	30·12	48	N	3	b	30·15	+ ·01	41	40	0	NNE	3	bc	*	b	52	39	—

For Explanation of Columns, see bottom of last page.

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

WEATHER CHARTS

for 8 a.m. on Thursday, 5th JAN. 1893.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

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

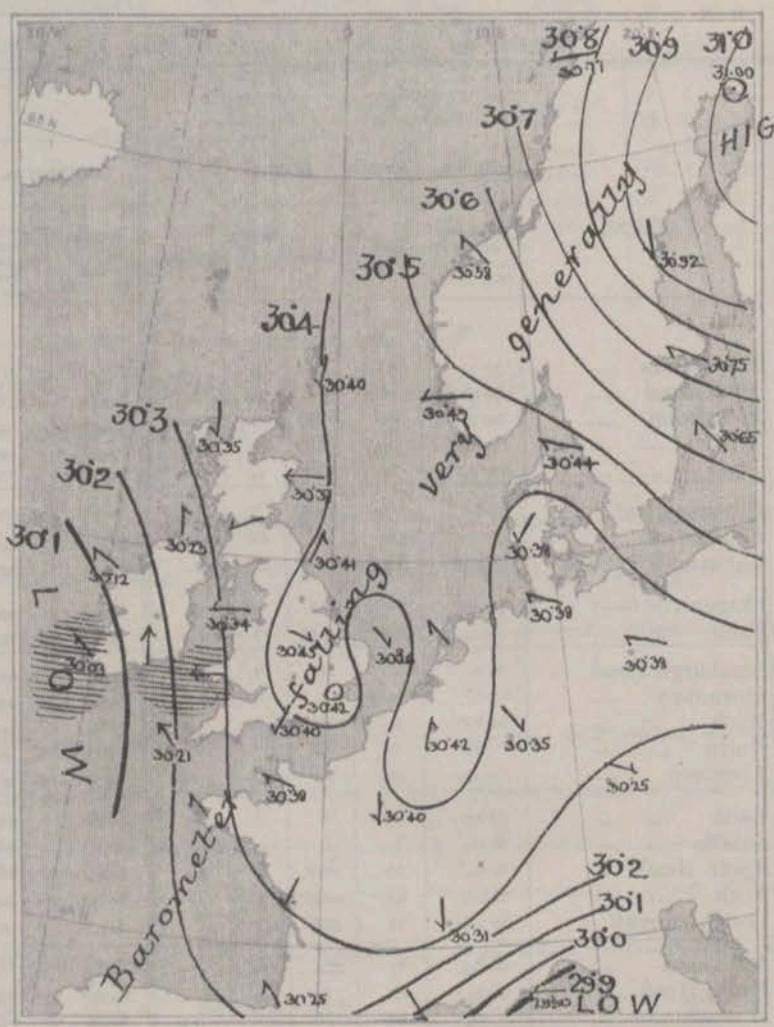
WIND.—Arrows shew the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus—
▶⟶ = forces above 10; ⟶ = forces 8 to 10;
⟶ = forces 5 to 7; ⟶ = forces 1 to 4.
⊙ = dead calm.

SEA DISTURBANCE.—Where considerable, is shewn thus:
= Rough, = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of January.
During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29·678
Stornoway	29·682
Wick	29·719
Nairn	29·743
Aberdeen	29·787
Leith	29·825
Shields	29·851
Spurn Head	29·926
York	29·932
Loughborough	29·967
Ardrossan	29·838
Mullaghmore	29·817
Donaghadee	29·856
Holyhead	29·902
Liverpool	29·924
Parsonstown	29·895
Valencia	29·887
Roche's Point	29·908
Pembroke	29·938
Scilly	29·969
Prawle Point	30·006
Jersey	30·012
Hurst Castle	30·002
Dover	30·012
LONDON	30·003
Oxford	29·999
Cambridge	29·993
Yarmouth	29·979



TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shown by Letters of the Beaufort Scale.

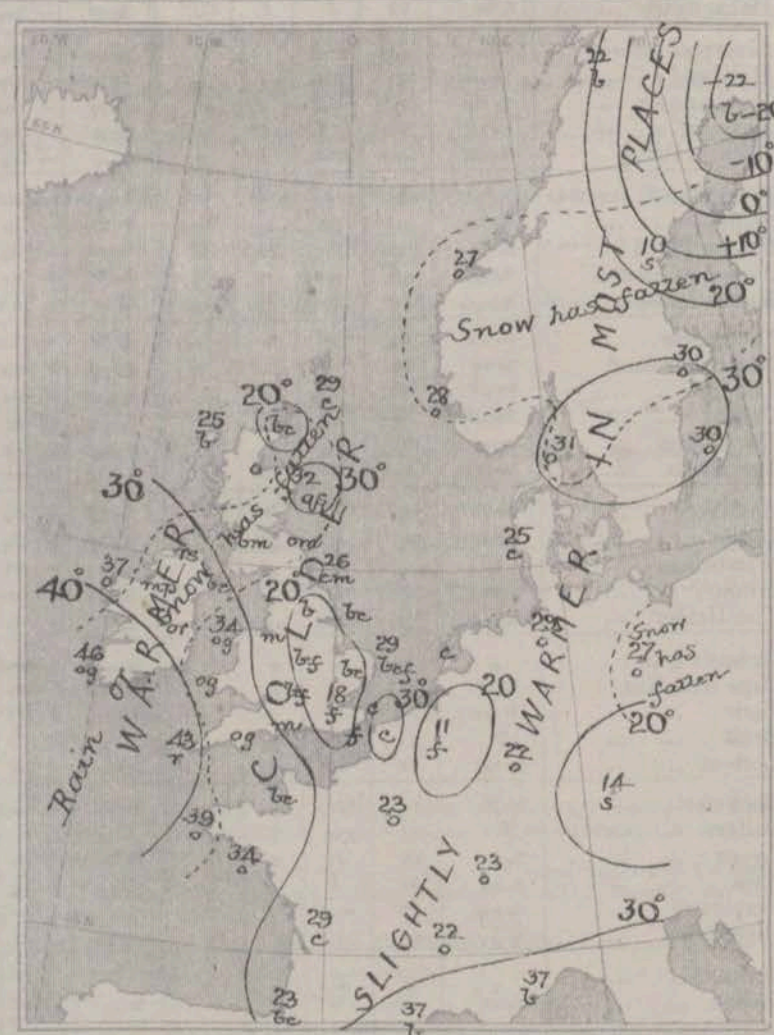
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of January.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	at 8 a.m. Wet.	RAINFALL (Inches.)
Sumburgh Head	42·9	35·6	39·7	38·4	3·72
Stornoway	43·3	34·5	39·5	38·4	3·30
Wick	42·4	33·3	38·2	36·8	2·05
Nairn	42·2	32·9	37·2	35·6	1·99
Aberdeen	42·4	33·2	37·3	35·8	2·31
Leith	44·4	33·7	38·6	37·2	1·93
Shields	43·0	34·2	38·2	36·2	1·73
Spurn Head	41·7	34·5	37·7	36·7	1·85
York	42·7	32·5	36·7	35·7	1·87
Loughborough	43·0	32·3	36·4	35·4	2·04
Ardrossan	44·2	36·3	40·0	38·8	4·25
Mullaghmore	46·4	38·0	41·6	40·4	4·50
Donaghadee	44·4	36·1	40·0	39·2	2·98
Holyhead	45·6	38·7	41·7	40·3	3·35
Liverpool	43·5	35·2	38·6	37·0	2·22
Parsonstown	45·6	34·2	38·9	37·8	3·12
Valencia	49·5	40·4	44·6	43·3	8·69
Roche's Point	47·7	39·5	43·2	41·9	5·50
Pembroke	46·5	39·6	42·7	41·3	3·75
Scilly	48·8	42·9	46·4	44·9	3·73
Prawle Point	46·2	37·6	42·0	41·0	3·00
Jersey	45·8	38·2	41·8	40·4	3·21
Hurst Castle	45·0	36·3	40·3	39·5	2·94
Dover	43·5	35·8	39·2	38·1	2·58
LONDON	44·1	73·8	37·6	36·6	2·12
Oxford	43·1	33·6	37·1	36·1	2·26
Cambridge	43·3	31·7	36·2	35·4	1·54
Yarmouth	41·5	34·8	37·5	36·7	1·95

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 31.00 ins. at Haparanda; 30.4 ins. and upwards in a large anticyclone covering Scandinavia, Denmark and the North Sea, with the central parts of England.

Lowest 29.9 ins. and less over the Gulf of Genoa; 30.1 ins. and less in a depression lying to the south-westward of Ireland.

Gradients slight generally, but increasing in the extreme west.

Barometer falling in nearly all part of western Europe – most in the W. of our Islands, but fall checked at Valencia Ireland.

TEMPERATURE

Highest 46° at Valencia (Ireland) 45° at Roche's Pt., 43° at Scilly, 41° at Lisbon, and 40° at Prawle Point.

Lowest (1) −22°F at Haparanda +10° at Hernösand and 22° at Bodö (2) 12° at York, 14° at Loughborough, and 16° at Oxford and Cambridge.

In the course of the past night the thermometer has fallen to 8° at York, to 10° at Loughborough and Cambridge, and to 13° at Oxford.

WIND

Moderate from the E^ly in the west of France; strong from the SE^ly on our southwest coasts; moderate from S. in the north of Ireland.

Variable in Scotland; light from N. or NW. in the east and southeast of England.

E^ly or SE^ly over Denmark, north Germany and the southern parts of Scandinavia.

WEATHER

Foggy over the greater part of England and dull in nearly all other parts of western Europe, with rain at Roche's Point and Scilly, sleet at Malin Hd., and heavy snow at Aberdeen, as well as at some of the Scandinavian and German stations.

Fine and bright in the extreme south of France.

A lunar halo was seen last evening at Jersey and a brilliant meteor at the North Foreland.

SEA

Slight or smooth generally, but rather rough off the south of Ireland.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression off the southwest of Ireland seems likely to spread slowly to the eastward and SE^ly breezes will probably set in over England shortly. The centre of the disturbance may possibly travel in a southeasterly direction.

FORECASTS

For the 24 hours ending at NOON on 6th January 1893.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	S^ly winds; dull, snow and sleet.
2 ENGLAND N.E. 3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	Varying airs and calms, with fog and frost; probably SE^ly later and milder.
6 SCOTLAND WEST 7 ENGLAND N.W. 8 ENGLAND S.W.	S^ly winds, increasing in force; milder, rainy.
9 IRELAND NORTH 10 IRELAND SOUTH	SE^ly gales and strong winds; dull, squally, rainy.
WARNINGS	At 10.15 am to districts 9 and 10 "Hoist SOUTH CONE".

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·15	28	24	E.	4	o	2
Sumburgh Head	30·44	31	29	SE.	2	c	3
Stornoway	30·33	37	35	?	0	bc	3
Aberdeen	30·43	34	30	SSE.	2	c	4
Shields	30·42	32	31	WNW	2	om	2
Ardrossan	30·37	37	36	S	3	o	3
Malin Head ...	30·31	38	34	S	4	c	1
Mullaghmore ...	30·31	38	34	SSE.	2	cm	2
Belmullet	30·24	37	35	ESE.	3	o	*
Holyhead	30·40	36	30	ESE.	1	b	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30·20	46	44	SSE.	5	rmg	4
Scilly	30·32	44	39	SSE.	3	c	1
Jersey	30·36	40	38	N	2	bc	2
Hurst Castle ...	30·38	35	33	NNE.	2	bm	2
Dungeness... ...	30·35	27	27	NNW	2	m	1
North Foreland...	30·37	33	31	N	2	b	3
London	30·41	28	27	?	0	f	*
Yarmouth	30·34	30	29	W	2	bf	4
Rochefort	30·33	35	?	ENE.	3	b	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather in morning fine and bright over the British Islands and western Europe as a whole, but foggy over the midland and southeastern parts of England, as well as at Cuxhaven; dull over northern Europe, with snow in places, unsettled over the central and southeastern countries, with snow in many places. Rain falling over Tunis, Malta and Scilly. Some rain at our western stations later, snow in the north, as well as in some parts of Germany and France — weather dry over Gt Britain and in most places bright.

Temperature beginning to rise quickly over Ireland and slightly at the Norwegian stations, as well as over central Europe. Morning readings 51° at Malta, and above 40° on the coasts of Algeria, as well as at the stations situated in the extreme S.W. of the United Kingdom; much lower elsewhere. Hard frost prevailing over the inland countries generally, and lowest readings of all (1) −22° F. at Moscow, −10° at Haparanda, +14° at Hangö; (2) 13° at Wiesbaden, 14° at Le Mans, 17° at Paris, 18° at Brussels and Lyons, (3) 12° at Cambridge, 15° at Dungeness, 18° in London, 20° at Parsonstown. Hard frost over England and most inland parts of Europe during succeeding night.

Wind chiefly E$^{\frac{1}{4}}$ and moderate over N^{rn} Europe, SE$^{\frac{1}{4}}$ and variable over Scotland and Ireland, very variable over England; NE$^{\frac{1}{4}}$ to NW$^{\frac{1}{4}}$ over central, SE^{rn} and S^{rn} Europe, NW$^{\frac{1}{4}}$ to W$^{\frac{1}{4}}$ over Algeria, Tunis, Malta and Sicily. Becoming more generally SE$^{\frac{1}{4}}$ over our W^{rn} districts later.

Barometer highest 31·2 ins. and more to 30·8 ins. over N^{rn} Europe and central Russia, and exceeding 30·5 ins. all over Scandinavia; exceeding 30·3 ins. over nearly the whole of the British Islands, N^{rn} France and N. Germany. Lowest 29·6 ins. and less over the S^{rn} parts of Italy and the Adriatic. Falling somewhat at our western stations later but rising slowly over England and N^{rn} Europe.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

N.B.—The morning observations are made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. 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, 6th January, 1893.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. Reading at 32° F. and Sea Level.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	THIS MORNING. (See note at bottom of last page.) Barometer. Reading at 32° F. and Sea Level.	Barometer. Change since Yesterday Morn.	Shade Temp. Dry Bulb.	Shade Temp. Wet Bulb.	Shade Temp. Change in dry since Yesterday.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	Sea (0 to 9).	PAST 24 HOURS. Weather.	Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
		Ins.	°				Ins.		°	°	°							°	Ins.
SCANDINAVIA.	Haparanda ...	30·93	−21	nNE	2	bc	30·85	−·15	−21	−21	+ 1	N	0	bc	*	bc	11	−22	-
	Hernösand ...	30·88	0	nW	2	c	30·78	−·14	14	14	+ 14	nW	2	0	*	0	14	7	0·04
	Stockholm ...	30·69	26	nNE	2	c	30·63	−·10	28	25	− 5	SE	2	c	*	0	32	23	-
	Wisby	30·65	25	SSE	4	bc	30·65	·00	20	19	− 10	SSE	4	b	*	bc	32	19	-
	Bodö	30·65	23	E	4	c	30·57	−·20	25	23	+ 3	E	2	b	1	b	?	21	-
	Christiansund...	30·49	30	E	4	c	30·38	−·20	31	29	+ 4	ESE	3	c	2	c	31	27	-
	Skudesnaes ...	30·42	23	ENE	1	b	30·34	−·15	22	21	− 6	ENE	1	b	2	b	28	19	-
	Christiania Fjord (Færder)	30·43	33	SSE	5	s	30·32	−·20	31	30	+ 7	SSE	6	s	4	s	34	24	-
	Skagen (The Scaw)	30·37	29	SSE	1	s	30·38	−·06	28	27	− 3	S	3	c	2	s	34	27	0·32
	Fanö	30·37	26	N	1	c	30·38	·00	25	25	0	SE	2	c	*	c	28	23	-
BRITISH ISLANDS	Sumburgh Head	30·33	28	W	0	c	30·22	−·18	30	28	+ 1	W	0	bc	2	bc	31	24	-
	Stornoway ...	30·28	24	W	0	b	30·09	−·26	32	32	+ 7	W	0	c	3	b	34	22	0·02
	Wick	30·31	19	nW	1	b	30·17	−·17	34	33	+ 19	S	3	bcu	3	b	34	12	-
	Nairn	30·30	20	W	0	f	30·14	−·24	11	10	− 14	W	0	b	1	f	25	8	-
	Aberdeen ...	30·36	16	nW	2	b	30·23	−·14	15	14	− 17	nW	1	ogm	4	c, b	32	12	0·06
	Leith	30·34	24	W	0	f	30·21	−·17	25	25	− 3	W	0	sm	*	f	31	13	-
	Shields	30·37	25	S	1	bm	30·23	−·18	26	26	0	W	0	f	3	b	32	18	-
	Spurn Head ...	30·34	35	NE	3	c	30·24	−·16	33	33	+ 4	SSE	5	o	4	fp	36	27	0·01
	York	30·40	20	N	1	o	30·24	−·19	32	32	+ 20	ESE	1	s	*	o	32	11	0·01
	Loughborough	30·39	24	W	1	o	30·25	−·20	26	26	+ 12	ESE	1	s	*	o	27	13	0·06
	Ardrossan ...	30·33	26	ENE	2	bm	30·17	−·20	26	25	0	NE	3	of	1	b,m	28	21	-
	Malin Head ...	30·20	35	SSE	4	o	30·06	−·17	34	34	− 1	SSE	2	or	1	o	36	34	0·06
	Mullaghmore ...	30·13	37	E	6	ogr	30·00	−·19	39	37	+ 2	SSE	5	opg	4	orgm	39	35	0·05
	Belmullet ...	30·04	37	SSE	4	o	29·92	−·20	39	38	+ 2	E	3	o	*	r,o	40	36	0·20
	Donaghadee ...	30·27	37	SSE	3	o	30·13	−·20	37	37	+ 2	SSE	5	r	3	o	37	33	0·40
	Liverpool (Bidston)	30·33	29	ESE	3	o	30·19	−·21	28	28	+ 5	ESE	3	s	2	o	29	23	0·05
	Holyhead ...	30·28	33	ESE	2	smq	30·13	−·21	31	31	− 3	SE	1	ogms	2	ogs	35	31	0·09
	Parsonstown ...	30·13	37	SE	2	r	29·99	−·20	38	36	0	SE	1	o	*	or	40	36	0·16
	Valencia	29·96	48	SE	6	qmr	29·85	−·18	46	45	0	E	5	ogm	5	rgm	48	44	0·53
	Roche's Point	30·09	45	SSE	7	r	29·95	−·19	42	42	− 3	SE	8	r	5	r	46	40	0·65
	Pembroke (St. Ann's Hd.)	30·23	36	ESE	3	r	30·06	−·23	38	37	+ 1	SSE	5	ors	6	r	38	34	0·28
	Scilly	30·12	45	SE	6	o	29·95	−·26	43	41	0	ESE	6	r	5	o	46	40	0·35
	Prawle Point ...	30·27	38	SE	4	o	30·08	−·25	37	35	− 3	ESE	5	og	4	og	40	34	-
	Jersey (St. Aubin's)	30·32	36	ESE	3	bcm	30·15	−·23	32	31	− 5	ESE	4	bcm	3	bcm	37	31	-
	Hurst Castle ...	30·34	34	E	4	om	30·20	−·20	36	33	+ 9	SSE	4	c	2	mo	35	26	-
	Dungeness ...	30·33	26	N	2	m	30·23	−·15	32	30	+ 16	SE	3	c	2	fm	35	15	-
	North Foreland	30·33	32	N	2	c	30·24	−·15	31	31	− 1	SE	4	asq	4	c	34	23	0·01
	London	30·36	† 23	ENE	1	f	30·24	−·18	30	29	+ 12	SE	1	ogm	*	f	30	18	-
	Oxford	30·36	28	W	0	o	30·24	−·21	30	29	+ 14	ENE	1	ofs	*	o	30	16	-
	Cambridge ...	30·36	26	nW	1	o	30·27	−·16	31	30	+ 15	SE	1	s	*	o,s	31	15	0·06
	Yarmouth ...	30·31	35	ENE	2	c	30·27	−·09	34	33	+ 5	SE	4	cq	4	hp,c	35	27	0·02
GERMANY & HOLLAND	Cuxhaven ...	30·38	28	W	0	o	30·39	+·01	28	27	− 1	NE	2	o	*	o	29	26	-
	Berlin	30·41	21	SE	2	o	30·45	+·07	5	4	− 22	E	3	b	*	o	28	3	-
	Wiesbaden ...						30·30	−·05	25	24	+ 3	N	3	o	*	*	25	22	-
	Munich ...	30·27	13	NE	2	b	30·21	−·04	10	10	− 4	SE	2	o	*	b	18	7	-
	The Helder ...	30·43	25	S	1	c	30·37	−·06	29	28	+ 6	ENE	1	c	1	c	29	21	-
BELGIUM.	Brussels (9 a.m.)						30·31	−·11	23	23	+ 12	ENE	1	f	*	o	23	11	-
	Cape Gris Nez	30·28	34	N	2	m	30·19	−·12	24	23	− 9	ESE	3	m	3	m	36	21	-
	Paris	29·96	21	N	2	o	30·23	−·18	24	24	+ 1	ENE	2	o	*	o	32	18	-
	Brest	?	37	SE	3	o	?	?	32	32	− 7	SE	4	o	4	o	43	30	-
	Lorient	30·26	31	ESE	5	m	30·09	−·23	27	27	− 7	ESE	5	m	4	m	36	27	-
FRANCE AND	Rochefort ..	30·28	29	ENE	4	c	30·02	−·25	22	21	− 7	ESE	4	b	*	c	32	19	-
	Belfort	?	20	E	3	b	?	?	17	16	− 6	E	4	bc	*	b	23	13	-
	Lyons	30·30	23	N	2	o	30·25	−·06	20	19	− 2	ESE	1	o	*	o	25	20	-
	Nice	29·91	41	E	1	b	30·01	+·11	38	32	+ 1	E	2	b	2	b	50	37	-
	Perpignan ...	30·05	43	nW	3	b	30·08	+·01	25	25	− 12	SW	1	bc	*	b	50	25	-
	Biarritz	30·16	35	E	4	b	29·97	−·28	28	28	+ 5	ENE	3	b	0	b	37	23	-
PENINSULA.	Corunna																		
	Lisbon	30·04	50	N	0	c	29·99	−·16	40	40	− 1	NNE	4	c	*	c	54	39	-

For Explanation of Columns, see bottom of last page.

† The corresponding value on yesterday's report should have been 21

† Received too late for insertion on Charts on next page.

WEATHER CHARTS

for 8 a.m. on Friday, 6th January, 1893.

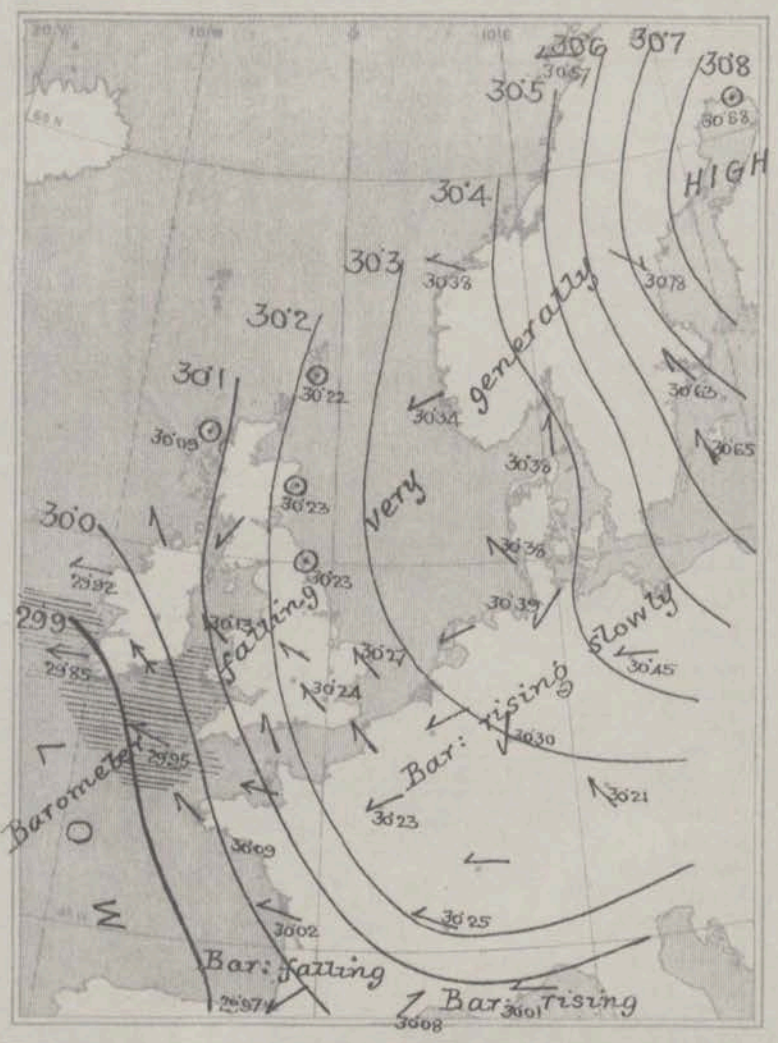
BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

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

WIND.—Arrows show the prevailent winds. They fly with the wind and their barbs and feathers refer to force thus—
forces above 10; forces 8 to 10½;
forces 5 to 7; forces 1 to 4
dead calm.

SEA DISTURBANCE.—Where considerable, is shewn thus.
Rough. High.



MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of January.
During the 20 Years: 1871—1890.

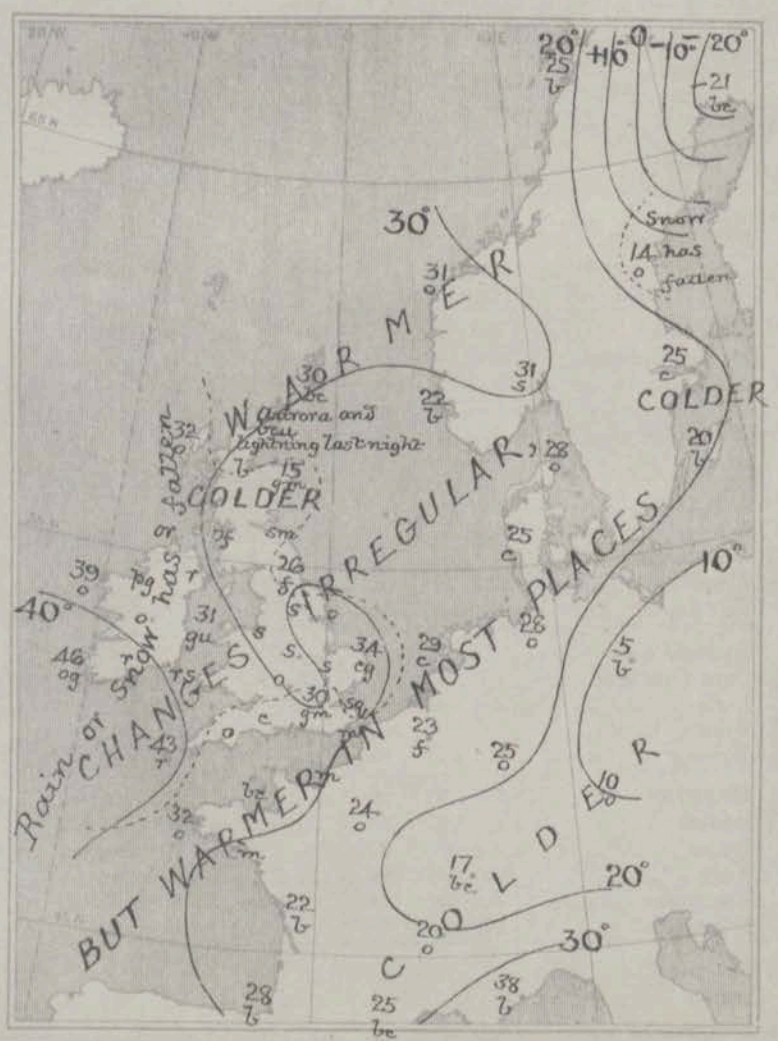
STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29·675
Stornoway	29·682
Wick	29·719
Nairn	29·743
Aberdeen	29·787
Leith	29·835
Shields	29·881
Spurn Head	29·926
York	29·932
Loughborough	29·967
Ardrossan	29·938
Mullaghmore	29·817
Donaghadee	29·855
Holyhead	29·902
Liverpool	29·924
Parsonstown	29·895
Valencia	29·887
Roche's Point	29·908
Pembroke	29·936
Scilly	29·949
Prawle Point	30·006
Jersey	30·042
Hurst Castle	30·002
Dover	30·014
LONDON	30·006
Oxford	29·993
Cambridge	29·954
Yarmouth	29·979

TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shewn by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.



MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of January.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Day	Wet.	RAINFALL. (Inches.)
Sumburgh Head	42·9	35·6	39·7	38·1	3·72
Stornoway	43·3	34·5	39·5	38·4	5·30
Wick	42·4	33·3	38·2	36·8	2·05
Nairn	42·2	32·9	37·2	35·6	1·39
Aberdeen	42·4	33·2	37·3	35·6	2·34
Leith	44·4	34·7	38·6	37·2	1·93
Shields	43·0	34·2	38·2	36·9	1·75
Spurn Head	41·7	34·5	37·7	36·7	1·35
York	42·7	32·5	36·7	35·7	1·87
Loughborough	43·8	32·3	36·4	35·4	2·01
Ardrossan	44·2	36·3	40·6	38·8	4·20
Mullaghmore	46·3	36·0	41·8	40·4	1·36
Donaghadee	41·4	36·1	40·0	39·2	2·08
Holyhead	45·6	36·7	41·7	40·3	3·38
Liverpool	43·3	35·2	38·6	37·0	2·22
Parsonstown	45·6	34·2	38·9	37·8	3·12
Valencia	49·5	40·4	44·5	43·3	6·89
Roche's Point	47·7	39·3	43·2	41·9	3·50
Pembroke	45·5	38·6	42·7	41·5	3·73
Scilly	48·8	42·9	46·4	44·9	3·73
Prawle Point	46·2	37·6	42·0	41·0	3·09
Jersey	45·8	38·3	41·8	40·4	3·21
Hurst Castle	45·0	36·3	40·5	39·5	2·94
Dover	43·5	35·8	39·2	38·1	2·58
LONDON	44·4	38·8	37·6	36·6	2·12
Oxford	44·1	33·9	37·1	36·1	2·26
Cambridge	43·5	31·7	36·2	35·4	1·64
Yarmouth	44·6	34·8	37·5	36·7	1·95

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·8 in. and upwards in the north of Sweden.

Lowest, 29·0 in. and less, in a depression lying to the southwestward of our Islands.

Gradients slight, especially over the North Sea and the eastern parts of Great Britain.

Barometer falling at all but the Danish and North German stations.

TEMPERATURE

Highest, 46° at Valencia Island, 43° at Scilly, 42° at Rockabill, 40° at Fyeberg, and 39° at Belmullet and Mullaghmore.

Lowest, (1) −21° Fahr. at Haparanda and +14° at Hernösand; (2) 5° at Berlin, 10° at Munich and 17° at Lyons; (3) 11° at Nairn and 15° at Aberdeen.

A considerable rise has taken place over England, but a decided fall over the eastern and central parts of Scotland.

WIND

E. or SE. over the greater part of Western Europe, and strong in force on our southwest coasts, with a gale at Rockabill.

Calm or light and variable in Scotland.

WEATHER

Dull in most places, with rain at many of our western stations, and with snow over the northern and central parts of England.

Fine at some of the Scotch stations and also in the south of France.

Heavy rain has fallen in Ireland the largest amount being 0·7 in. at Rockabill. Lightning and an Aurora were seen at Wick last night.

SEA

Rough at Pembroke and rather rough on our southwest coasts generally.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression off our southwest coasts appears to be spreading eastwards and southeastwards. Increasing winds from the E. are probable over England, with snow in many places.

FORECASTS

For the 24 hours ending at NOON on 7th JANUARY, 1893.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	S. winds, freshening, unsettled, some snow.
2 ENGLAND N.E. 3 ENGLAND EAST 4 MIDLAND COUNTIES	Same as No. 5
5 ENGLAND SOUTH	E. and SE. winds, freshening; unsettled, some snow.
6 SCOTLAND WEST 7 ENGLAND N.W.	E. winds, light or moderate, dull, some snow.
8 ENGLAND S.W. 9 IRELAND NORTH 10 IRELAND SOUTH	SE. winds, strong, a gale in places; unsettled, rain at times
WARNINGS	At 7·10 pm to districts 7 and 8, Hoist South Cone. The signals are still flying in districts 9 and 10.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·46	28	25	ENE	4	b	2
Sumburgh Head	30·32	29	27	NNE	1	bc	3
Stornoway	30·32	31	31	N	2	b	2
Aberdeen	30·37	29	29	NW	2	c	4
Shields	30·39	31	31	S	2	bcm	3
Ardrossan	30·35	26	25	ENE	2	b	1
Malin Head ...	30·23	34	33	SSE	3	o	1
Mullaghmore ...	30·16	37	36	E	6	orqm	4
Belmullet	30·08	37	37	ESE	4	r	*
Holyhead	30·30	34	33	ESE	4	oq	2

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29·99	48	47	SE	6	rqm	6
Scilly	30·16	45	42	SE	6	o	4
Jersey	30·31	35	34	SE	3	b	3
Hurst Castle ...	30·35	35	33	E	3	m	1
Dungeness... ...	30·33	29	29	N	2	f	1
North Foreland...	30·31	32	32	WNW	2	c	3
London	30·37	28	27	E	0	fg	*
Yarmouth	30·32	35	34	N	2	c	4
Rochefort	30·25	30	29	E	4	o	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather foggy over England and dull in nearly all other parts of Europe, with rain in the southwest of our Islands, and with snow in the east of Scotland, as well as in some parts of Finland, Scandinavia, and Germany. Fine and bright in the north of Scandinavia and the extreme south of France. Rain falling at Palermo, Malta, and La Calle. Fog continuing in the southeast of England all day, heavy rain falling at some of the French stations.

Temperature changed very irregularly, fallen over England, but risen in many other countries. Morning readings highest (1) 48° at Corfu and Malta, and 46° at Algiers; (2) 46° at Valencia Island, 45° at Rochebiot, and 43° at Scilly. Lowest −22° Fahr. at Haparanda, −20° at Moscow, −7° at Kiev, and −6° at Uleaborg; below zero over the greater part of Russia, and below 20° over the inland and southeastern parts of England, the lowest reading in our Islands being 12° at York. Hard frost continuing all day in many parts of England, and rapid fall of temperature occurring in Scotland. Thermometer reaching 50° in the extreme south of France, and rising to 54° at Lisbon.

Wind strong from the SE.ᵗʰ or S.ᵗʰ in the west of our Islands, but variable or light from the NW.ᵗʰ in the eastern districts; E. or SE. over North Germany, Denmark, the Baltic, and the southern parts of Scandinavia, but NW. or W. over Austria and South Germany. E. in the west of France, NE. over Spain and northern Italy, NW. in Tunis, and W. in the south of Italy. Light E. breezes setting in later at some of our more eastern stations.

Barometer highest 31·27 in. at Moscow, 30·4 in. and upwards, in a large anticyclone covering the whole of northern and eastern Europe and extending westwards over the North Sea and the central parts of England. Lowest 29·7 in. and less, in a depression lying to the southward of Italy, 30·1 in. and less, in another system lying to the southwestward of Ireland. Gradual fall taking place over Western Europe during day, and depression in southwest spreading slowly eastwards.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

N.B.—The morning observations are made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. 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 Saturday, 7th January, 1893.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. Reading at 32° F. and Sea Level.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	THIS MORNING. (See note at bottom of last page.) Barometer. Reading at 32° F. and Sea Level.	Barometer. Change since Yesterday Morn.	Shade Temp. Dry Bulb.	Shade Temp. Wet Bulb.	Shade Temp. Change in dry since Yesterday.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	Sea (0 to 9).	PAST 24 HOURS. Weather.	Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
		Ins.	°				Ins.		°	°	°							°	ins.
SCANDINAVIA.	Haparanda ...	30·69	-2	2	0	0	30·50	-·35	17	17	+ 38	SW	2	0	*	0	2	-22	-
	Hernösand ...	30·66	23	2	0	0	30·56	-·22	23	22	+ 9	S	2	0	*	0	25	9	-
	Stockholm ...	30·67	19	2	0	0	30·60	-·03	18	18	- 7	SE	2	6	*	0	28	18	-
	Wisby	30·62	21	SSE	4	6	30·55	-·07	21	18	+ 1	SSE	4	6	*	6	25	18	-
	Bodö	30·39	28	E	2	6	30·29	-·28	22	19	- 3	E	4	6	2	6	28	18	-
	Christiansund...	?	31	SW	4	0	30·22	-·16	36	32	+ 5	SW	6	c	3	0	36	30	-
	Skudesnaes ...	30·42	28	ESE	2	6	30·34	·00	23	21	+ 1	NE	2	c	2	bc, b	30	21	-
	Christiania Fjord (Faerder)	30·44	29	ESE	4	0	30·41	+·09	26	23	- 5	ENE	4	0	1	0	32	25	-
	Skagen (The Skaw)	30·43	23	ESE	3	0	30·34	-·04	26	25	- 2	SSE	2	m	1	0	28	23	-
	Fanö	30·32	21	ESE	4	0	30·24	-·14	25	25	0	ESE	4	0	*	0	28	19	-
BRITISH ISLANDS	Sumburgh Head	30·24	34	SSE	1	c	30·26	+·04	33	32	+ 3	2	0	bc	2	b, c	36	29	0·01
	Stornoway ...	30·04	32	E	2	0	30·13	+·04	34	33	+ 2	E	3	6	3	0	34	30	-
	Wick	30·11	34	SE	6	0	30·16	-·01	36	35	+ 2	S	4	c v	4	0	37	32	0·05
	Nairn	30·05	25	2	0	bc	30·14	·00	30	30	+ 19	2	0	bcm	0	bc	30	8	-
	Aberdeen ...	30·14	36	SSE	3	ogsp	30·16	-·07	36	34	+ 21	SE	5	ogsp	4	grsp	37	15	0·19
	Leith	30·10	29	SSE	3	0	30·04	-·17	34	34	+ 9	E	3	c	*	0	34	24	-
	Shields	30·16	33	SSE	2	om	30·02	-·21	36	35	+ 10	ESE	6	0	5	f, m, s	36	23	0·10
	Spurn Head ...	30·11	35	ESE	3	s	29·95	-·29	33	32	0	E	4	0	4	sp	35	30	0·13
	York	30·14	30	ESE	1	s	29·99	-·25	30	30	- 2	ESE	1	0	*	s	32	29	0·23
	Loughborough	30·13	29	NW	1	s	29·96	-·29	29	28	+ 3	ENE	2	om	*	s	31	26	0·23
	Ardrossan ...	30·05	33	ENE	2	osp m	30·01	-·16	31	30	+ 5	ENE	3	bcm	1	f, rsp	34	25	0·02
	Malin Head ...	29·91	33	SSE	4	orsp	29·87	-·19	36	32	+ 2	ESE	7	og	3	osp	36	33	0·18
	Mullaghmore ...	29·91	38	SE	3	ogr	29·81	-·19	36	35	- 3	ENE	6	ogrs	4	rq, rs	39	34	0·18
	Belmullet ...	29·79	38	ESE	2	o	29·75	-·17	35	34	- 4	NE	4	o	*	o	39	34	0·13
	Donaghadee ...	29·99	39	S	4	r	29·93	-·20	35	34	- 2	SE	6	o	5	r	39	35	0·06
	Liverpool (Bidston)	30·08	29	E	4	s	29·92	-·27	29	29	+ 1	E	3	o	2	s	31	28	0·22
	Holyhead ...	30·01	33	SE	2	gms	29·83	-·30	32	32	+ 1	E	4	og	4	ogpm	35	31	0·02
	Parsonstown ...	29·89	36	SE	1	o	29·73	-·26	34	33	- 4	SE	1	o	*	o, s	40	33	0·06
	Valencia	29·76	45	ENE	6	og	29·56	-·29	42	39	- 4	ENE	5	og	4	cg, og	46	40	0·10
	Roche's Point	29·84	43	SSE	6	r	29·59	-·36	43	43	+ 1	ESE	7	r	5	r	44	40	0·80
	Pembroke (St. Ann's Hd.)	29·90	36	SSE	6	r	29·70	-·36	33	33	- 5	E	6	sg	6	r	38	32	0·28
	Scilly	29·79	42	ESE	6	rm	29·56	-·39	47	47	+ 4	SE	7	m	5	rm	47	44	0·90
	Prawle Point ...	29·93	37	E	5	o	29·74	-·34	39	38	+ 2	E	5	og	4	ogp	39	35	0·01
	Jersey (St. Aubin's)	29·99	32	SE	3	o	29·78	-·37	34	32	+ 2	SE	3	bcm	3	om	36	30	-
	Hurst Castle ...	30·02	33	ESE	5	cg	29·83	-·37	33	32	- 3	E	3	o	5	cgm, s	38	32	0·01
	Dungeness ...	30·08	31	SE	5	o	29·88	-·35	30	30	- 2	SE	4	c	4	o	32	29	-
	North Foreland	30·07	32	E	5	og	29·90	-·34	30	30	- 1	ESE	2	og	3	og	32	29	-
	London	30·10	31	E	4	o	29·91	-·33	28	27	- 2	ESE	2	o	*	c, g, os	32	27	0·02
	Oxford	30·06	28	SE	1	s	29·90	-·34	27	27	- 3	E	1	os	*	s	32	27	0·20
	Cambridge ...	30·12	31	SE	1	s	29·93	-·34	29	28	- 2	E	1	o	*	s	32	27	0·27
	Yarmouth ...	30·11	34	ESE	6	cg	29·94	-·33	31	30	- 3	ESE	4	og	5	cv, cg	35	30	0·06
GERMANY & HOLLAND	Cuxhaven ...	30·31	29	ESE	2	o	30·21	-·18	18	16	- 10	ESE	4	c	*	o	29	17	-
	Berlin	30·38	8	E	3	o	30·30	-·15	3	2	- 2	ESE	4	b	*	o	19	3	-
	Wiesbaden ...	*	*	*	*	*	30·05	-·25	27	26	+ 2	NE	4	o	*	*	28	25	-
	Munich ...	30·11	18	E	2	o	30·02	-·19	9	9	- 1	SE	2	S	*	o	18	9	-
	The Helder ...	30·23	27	E	4	c	30·08	-·29	22	21	- 7	E	2	c	2	c	30	21	-
BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	29·97	-·34	19	19	- 4	NE	1	o	*	o	27	18	-
	Cape Gris Nez	30·06	27	ENE	2	m	29·88	-·31	22	22	- 2	ESE	2	o	2	m	28	22	-
	Paris	30·08	26	E	2	o	29·88	-·35	24	23	0	E	2	o	*	o	32	20	-
	Brest	?	34	SE	4	o	?	?	36	36	+ 4	ESE	4	r	4	o	37	30	0·08
	Lorient	29·89	32	ESE	5	o	?	?	32	29	+ 5	?	4	o	4	o	34	27	-
FRANCE AND PENINSULA.	Rochefort ...	29·90	32	ESE	4	o	29·71	-·31	32	31	+ 10	SE	4	o	*	bc, o	36	?22	-
	Belfort	?	17	E	2	b	?	?	18	18	+ 1	E	4	bc	*	b	22	14	-
	Lyons	30·12	22	E	1	b	29·96	-·29	19	18	- 1	S	1	c	*	b	29	17	-
	Nice	30·01	41	2	0	b	29·96	-·05	38	34	0	ENE	3	bc	2	b	50	36	-
	Perpignan ...	30·01	34	2	0	b	29·87	-·21	30	28	+ 5	SW	1	bc.	*	b	44	25	-
	Biarritz	29·82	42	SE	4	c	29·71	-·26	47	41	+ 19	SSW	3	o	2	c	?	28	-
	Corunna	*	*	*	*	*										*			
	Lisbon	29·82	49	NNE	3	r	29·63	-·36	51	51	+ 11	SE	4	f	*	r	61	40	0·47

For Explanation of Columns, see bottom of last page.

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

WEATHER CHARTS

for 8 a.m. on Saturday, 7th Jan.y 1893.

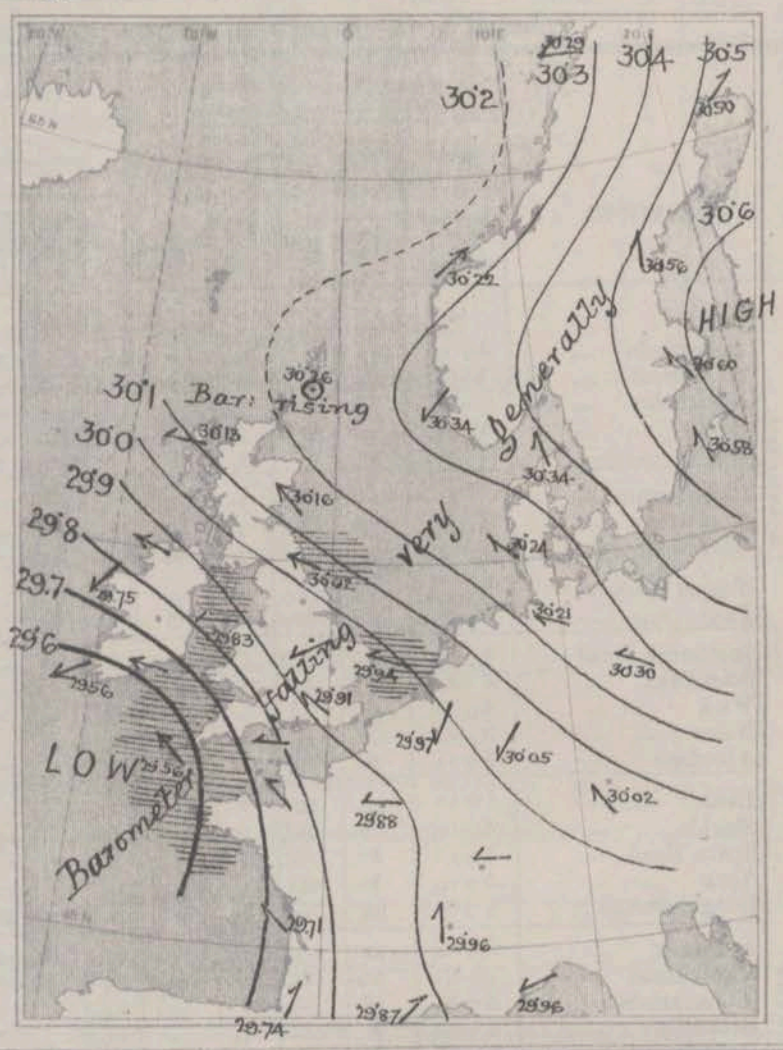
BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

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

WIND.—Arrows show the prevailent winds. They fly with the wind and their barbs and feathers refer to force thus—
= forces above 10; = forces 8 to 10;
= forces 5 to 7; = forces 1 to 4.
= dead calm.

SEA DISTURBANCE.—Where considerable, is shewn thus
= Rough. = High.



MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of January.
During the 20 Years: 1871—1890.

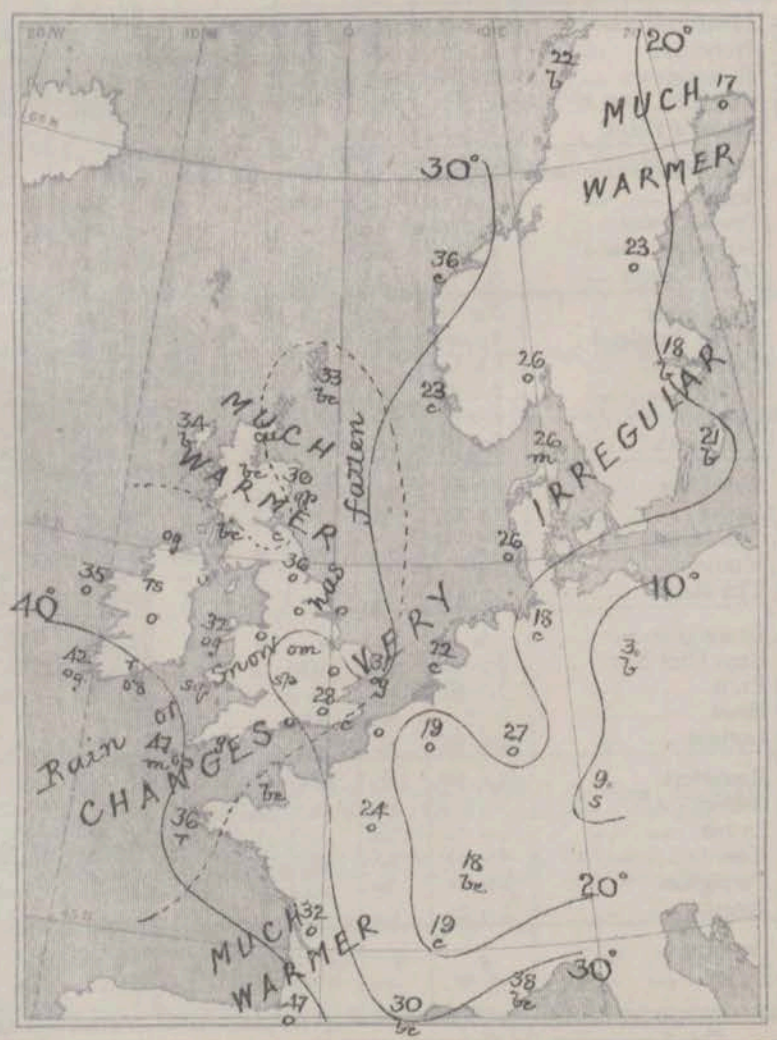
STATIONS.	MEAN READINGS. ins.
Sumburgh Head	29·675
Stornoway	29·682
Wick	29·719
Nairn	29·745
Aberdeen	29·787
Leith	29·825
Shields	29·881
Spurn Head	29·926
York	29·932
Loughborough	29·967
Ardrossan	29·838
Mullaghmore	29·817
Donaghadee	29·856
Holyhead	29·902
Liverpool	29·924
Parsonstown	29·895
Valencia	29·887
Roche's Point	29·908
Pembroke	29·936
Scilly	29·969
Prawle Point	30·006
Jersey	30·042
Hurst Castle	30·002
Dover	30·012
LONDON	30·006
Oxford	29·999
Cambridge	29·993
Yarmouth	29·979

TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE.—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shown by Letters of the Beaufort Scale.

RAINFALL.—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.



MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of January.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	RAINFALL. (Inches.)
Sumburgh Head	42·9	35·6	39·7	38·4	3·72
Stornoway	43·3	34·5	39·5	38·4	5·30
Wick	42·4	33·3	38·2	36·8	2·05
Nairn	42·2	32·9	37·2	35·6	1·99
Aberdeen	42·4	33·2	37·3	35·6	2·31
Leith	44·4	33·7	38·6	37·2	1·93
Shields	43·0	34·2	38·2	36·9	1·75
Spurn Head	41·7	34·5	37·7	36·7	1·35
York	42·7	32·5	36·7	35·7	1·87
Loughborough	45·0	31·3	36·4	35·4	2·04
Ardrossan	44·2	36·3	40·0	38·8	4·25
Mullaghmore	46·1	38·0	41·6	40·4	4·36
Donaghadee	44·4	36·1	40·0	39·2	2·98
Holyhead	45·6	38·7	41·7	40·3	3·38
Liverpool	43·5	35·2	38·6	37·0	2·22
Parsonstown	45·6	34·2	38·9	37·8	3·12
Valencia	49·5	40·4	44·5	43·3	6·69
Roche's Point	47·7	39·5	43·2	41·9	5·50
Pembroke	45·5	39·6	42·7	41·3	3·75
Scilly	48·8	42·9	45·4	44·9	3·73
Prawle Point	46·2	37·6	42·0	41·0	3·09
Jersey	45·8	38·5	41·8	40·4	3·21
Hurst Castle	45·0	36·8	40·3	39·5	2·94
Dover	43·5	35·8	39·2	38·1	2·58
LONDON	44·1	33·8	37·6	36·6	2·12
Oxford	43·1	33·6	37·1	36·1	2·26
Cambridge	43·3	31·7	36·2	35·4	1·54
Yarmouth	44·5	34·8	37·5	36·7	1·95

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·5 in: to 30·6 in: in Sweden.
Lowest, 29·6 in: and less, in a depression lying off our southwest coasts.
Gradients moderate over the southwestern parts of our Islands, but slight elsewhere.
Barometer rising in the north of Scotland, but falling in all other parts of Western Europe – decidedly in the south of Ireland.

TEMPERATURE

Highest 51° at Lisbon, 47° at Scilly and Biarritz, 43° at Rockes Point, 39° at Prawle Point, 36° at Malin Hd. and Mullaghmore.
Lowest, 3° at Berlin, 9° at Memel, 17° at Haparanda, 18° at Stockholm and Cuxhaven, and 19° at Brussels and Lyons.
A considerable rise has taken place in Scotland, but a slight fall over Ireland and England.

WIND

Chiefly E. or SE.; and strong in force over Ireland and the southwest of England.
S. or SW. in the south of France and also over the northern parts of Scandinavia.

WEATHER

Cloudy or overcast in most parts of Western Europe, with rain or sleet at some of our own western stations, and with snow at Memel.
Fine in some parts of Scotland, as well as in the southern parts of Sweden and France.
Heavy rain fell yesterday on our extreme southwest coasts, and snow in most other parts of the United Kingdom. A lunar halo was seen at Ardrossan.

SEA

Rather rough on our east and southwest coasts, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression in the southwest is apparently growing deeper, and increasing winds from the eastward or southeastward are probable on most of our coasts, with snow in many parts of Great Britain.

FORECASTS

For the 24 hours ending at NOON on 8th JANUARY 1893.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST 2 ENGLAND N.E.	SE. winds, increasing in force; cloudy, some snow.
↑ 3 ENGLAND EAST 4 MIDLAND COUNTIES ↑ 5 ENGLAND SOUTH	E. and SE. winds, strong to a gale on coast; cloudy, some snow.
6 SCOTLAND WEST ↑ 7 ENGLAND N.W.	E. winds, freshening considerably; unsettled, some snow.
↑ 8 ENGLAND S.W. ↑ 9 IRELAND NORTH ↑ 10 IRELAND SOUTH	E. and SE. winds, strong to a gale; unsettled, some rain or sleet.
WARNINGS	At 7 pm yesterday to districts 3 and 5 "Hoist North Cone". At 10·15 am today to districts 9 and 10 "Keep up South Cone"

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·41	30	27	ESE	4	bc	2
Sumburgh Head	30·23	32	30	2	0	bc	2
Stornoway	30·05	34	33	SW	2	0	2
Aberdeen	30·17	31	30	SW	1	bcm	4
Shields	30·18	33	32	SSE	3	f	3
Ardrossan	30·07	29	29	NE	2	0	2
Malin Head ...	29·97	34	34	SSE	4	0	1
Mullaghmore ...	29·94	39	37	SE	4	ogpm	2
Belmullet	29·93	39	38	E	2	0	*
Holyhead	30·06	34	33	SE	2	ogmsp	2
Valencia	29·78	45	43	ESE	7	cq	6
Scilly	29·86	43	42	ESE	6	1	5
Jersey	30·05	32	30	E	3	0	3
Hurst Castle ...	30·08	36	34	SE	4	cqm	2
Dungeness	30·14	32	32	ESE	5	0	4
North Foreland ...	? 30·18	32	31	E	5	0	4
London	30·16	31	29	ESE	2	og	*
Yarmouth	30·19	35	33	ESE	4	c	4
Rochefort	29·95	32	31	ESE	4	bc	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather in morning fine and bright at several isolated stations over the inland, southern and northern parts of Europe, as well as on the shores of the Baltic and in the north of Scotland, cloudy or overcast elsewhere, with fog or haze in several places, snow in several parts of Gt. Britain, sleet and cold rain at our western stations. Considerable rainfall on our southwestern coasts later, and small quantities of snow in the north and east of our Islands, weather fair generally elsewhere.

Temperature risen considerably over England and Belgium, changing rapidly and irregularly in Scotland. Morning readings lowest, −21° at Haparanda, −13° at Moscow and Kharkov, −8° at Riga, −7° at Warsaw, −2° at Lemberg; +5° at Breslau and Berlin, 15° at Hermannstadt, 17° at Belfort, 24° at Paris, 11° at Nairn, 15° at Aberdeen, 26° at Loughborough, 30° in London. Rising to somewhat above the freezing point over most parts of our Islands and France later, and exceeding 40° on our extreme southwest coasts; touching 50° at Nice.

Wind chiefly E to NE over southeastern, southern, and central Europe, and blowing very strongly at some of the Black Sea and Adriatic stations; mainly SE over Scandinavia, North Sea, and the British Islands — force light to moderate in most places, but blowing very strongly at the mouth of St. George's Channel.

Barometer highest 31·0 ins. to 30·2 ins. in a large anticyclone covering nearly the whole of Europe and having its centre near Moscow. Lowest, 29·9 ins. and less, over the Atlantic to the southwestward of Valencia and the northwestward of Corunna, and 29·7 ins. and less over Asia Minor, Greece, and the region lying between Cyprus and Malta. Falling throughout our Islands during the day, rising slightly over the southern parts of Scandinavia 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 made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. 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 8th January, 1893

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. Reading at 32° F. and Sea Level.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	THIS MORNING. (See note at bottom of last page.) Barometer. Reading at 32° F. and Sea Level.	Barometer. Change since Yesterday Morn.	Shade Temp. Dry Bulb.	Shade Temp. Wet Bulb.	Shade Temp. Change in dry since Yesterday.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	Sea (0 to 9).	PAST 24 HOURS. Weather.	Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
		Ins.	°				Ins.		°	°	°							°	Ins.
SCANDINAVIA.	Haparanda ...	30·39	19	SW	4	0	30·19	— ·31	23	23	+ 6	SW	6	0	*	0	25	-4	—
	Hernösand ...	30·41	25	S	2	c	30·25	— ·31	23	22	0	S	2	0	*	c	25	9	—
	Stockholm ...	30·50	23	SE	2	b	30·31	— ·29	25	24	+ 7	SSE	2	0	*	b	27	12	—
	Wisby	30·51	22	S	4	b	30·34	— ·24	23	22	+ 2	SSW	4	b	*	b	27	18	—
	Bodö	30·19	20	E	4	b	29·99	— ·30	23	18	+ 1	E	4	0	2	b	23	18	—
	Christiansund...	30·13	33	SW	8	s	30·09	— ·13	36	35	0	WSW	6	0	4	s	36	32	—
	Skudesnæs ...	30·33	24	2	0	b	30·22	— ·12	24	23	+ 1	ENE	2	0	2	b	30	19	—
	Christiania Fjord (Færder)	30·35	25	NNE	4	0	30·22	— ·19	23	21	— 3	N	2	0	1	0	25	23	—
	Skagen (The Scaw)	30·28	24	ESE	1	0	30·20	— ·14	25	23	— 1	SE	2	s	1	s.0	25	23	0·08
	Fanö	30·12	20	E	6	c	30·09	— ·15	20	19	— 5	E	6	0s	*	c	23	18	—
BRITISH ISLANDS	Sumburgh Head	30·26	32	NNE	1	bc	30·20	— ·06	31	19	— 2	NNE	1	b	2	bc	37	26	0·01
	Stornoway ...	30·17	36	SE	4	b	30·12	— ·01	34	34	0	SE	4	b	4	b	37	32	—
	Wick	30·26	35	E	4	bc	30·12	— ·04	35	34	— 1	E	4	bc	5	bc	39	34	0·03
	Nairn	30·16	28	2	0	bc	30·07	— ·07	35	34	+ 5	ESE	3	0	1	bc	35	25	—
	Aberdeen ...	30·16	35	E	8	cq	30·08	— ·08	35	34	— 1	E	7	ogrsp	7	cq	37	34	0·07
	Leith	30·03	34	E	4	bc	29·95	— ·09	37	36	+ 3	E	4	b	*	bc	37	32	0·09
	Shields	29·97	35	NE	5	orsp	29·90	— ·12	38	36	+ 2	NE	5	0	5	pns.0	38	34	0·06
	Spurn Head ...	29·89	34	ENE	3	0	29·87	— ·14	35	35	+ 2	E	4	0	4	0	35	32	—
	York	29·94	33	E	1	0	29·85	— ·14	35	34	+ 5	E	1	0	*	0	35	29	—
	Loughborough	29·88	31	NNE	2	0	29·82	— ·14	32	32	+ 3	ENE	2	s	*	0	33	28	—
	Ardrossan ...	29·99	36	ENE	2	c	29·89	— ·12	36	36	+ 5	ENE	3	bc	2	c	36	29	0·02
	Malin Head ...	29·85	37	ESE	8	orsp	29·80	— ·07	39	37	+ 3	E	8	og	4	orsp	39	35	0·01
	Muilaghmore ...	29·80	36	NE	7	r	29·73	— ·08	39	37	+ 3	NE	8	og	6	grsw	39	34	0·02
	Belmullet ...	29·74	35	E	6	0	29·69	— ·06	38	37	+ 3	NE	6	0	*	0	38	33	0·01
	Donaghadee ...	29·91	37	SE	7	s	29·83	— ·10	39	37	+ 4	SSE	9	c	7	s	39	33	0·05
	Liverpool (Bidston)	29·85	32	E	3	0	29·79	— ·13	35	34	+ 6	E	4	r	3	0	35	28	0·10
	Holyhead ...	29·77	33	E	5	0	29·73	— ·10	35	35	+ 3	E	5	oq	5	oq	35	31	0·06
	Parsonstown ...	29·69	34	NE	1	s	29·60	— ·13	35	34	+ 1	NE	1	s	*	sq	35	33	0·18
	Valencia	29·44	43	ENE	6	0	29·42	— ·14	39	37	— 3	ENE	6	rg	6	0	45	37	0·34
	Roche's Point	29·52	43	E	7	r	29·46	— ·13	40	40	— 3	ESE	7	r	5	r	44	37	1·80
	Pembroke (St. Ann's Hd.)	29·65	34	E	5	0	29·53	— ·17	35	35	+ 2	E	5	rsq	5	0	35	33	0·18
	Scilly	29·50	45	E	6	0	29·34	— ·22	47	47	0	ESE	7	r	5	0	48	42	0·24
	Prawle Point ...	29·62	40	E	6	0	? 29·53	— ·21	41	41	+ 2	E	7	r	6	0	42	38	0·16
	Jersey (St. Aubin's)	29·58	37	ESE	3	bcm	29·55	— ·23	41	40	+ 7	E	4	rm	3	bcm	41	33	0·13
	Hurst Castle ...	29·75	33	E	6	m	29·66	— ·17	34	34	+ 1	E	6	or	4	orm	35	32	0·21
	Dungeness ...	29·79	34	E	4	c	29·68	— ·20	34	32	+ 4	E	5	om	4	c	34	29	—
	North Foreland	29·81	34	E	4	b	29·73	— ·17	35	33	+ 5	E	2	0	3	b	35	27	—
	London	29·81	32	E	3	0	29·73	— ·18	33	32	+ 5	ENE	3	omg	*	0	34	28	—
	Oxford	29·83	30	E	1	0	29·74	— ·16	31	30	+ 4	ENE	3	o	*	0	32	27	—
	Cambridge ...	29·83	32	E	1	0	29·77	— ·16	32	32	+ 3	NE	1	0	*	0	32	27	—
	Yarmouth ...	29·88	33	E	5	0	29·78	— ·16	35	34	+ 4	E	4	ogf	5	0	35	30	—
GERMANY & HOLLAND	Cuxhaven ...	30·13	17	ESE	5	0	30·01	— ·20	14	12	— 4	ESE	4	b	*	a	18	12	—
	Berlin														*				
	Wiesbaden ...	*	*	*	*	*	? 29·96	— ·09	23	22	— 4	2	0	r	*	*	30	21	—
	Munich ...	29·93	15	2	0	f	29·91	— ·11	9	8	0	SE	4	f	*	f	18	9	—
	The Helder ...	29·97	22	E	2	b	29·91	— ·17	20	20	— 2	ESE	2	bc	4	b	25	19	—
FRANCE AND BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	29·79	— ·18	26	25	+ 7	ESE	2	0	*	bc	28	19	—
	Cape Gris Nez	29·77	22	E	2	bc	29·71	— ·17	26	26	+ 4	E	3	m	3	bc	27	21	—
	Paris	29·80	26	E	2	b	29·69	— ·19	29	28	+ 5	ENE	2	0	*	b	31	24	—
	Brest	?	39	SE	3	0	?	?	45	45	+ 9	SE	4	r	4	0	?	39	0·20
	Lorient	29·54	37	ESE	6	0	29·41	?	44	44	+ 12	SE	3	r	4	0	?	32	0·12
	Rochefort ...	29·61	39	SE	4	c	29·56	— ·15	42	41	+ 10	SE	4	0	*	c	42	?	—
	Belfort	?	21	SE	1	b	?	?	19	18	+ 1	E	4	bc	*	b	28	17	—
	Lyons	29·87	44	S	2	0	29·78	— ·18	42	38	+ 23	S	3	bc	*	0	45	41	—
	Nice	29·94	42	2	0	0	29·91	— ·05	40	38	+ 2	2	0	bc	2	0	46	39	—
	Perpignan ...	29·75	40	NE	2	0	29·75	— ·12	36	35	+ 6	W	2	b	*	0	45	35	—
	Biarritz	29·58	48	SE	3	c	29·54	— ·17	60	50	+ 13	SSW	4	0	2	c	?	41	—
PENINSULA.	Corunna	*	*	*	*	*										*			
	Lisbon	29·44	60	S	6	0	29·38	— ·25	57	56	+ 6	SSE	6	r	*		61	37	1·06

For Explanation of Columns, see bottom of last page

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

WEATHER CHARTS

for 8 a.m. on Sunday, 8th Jan. 1893.

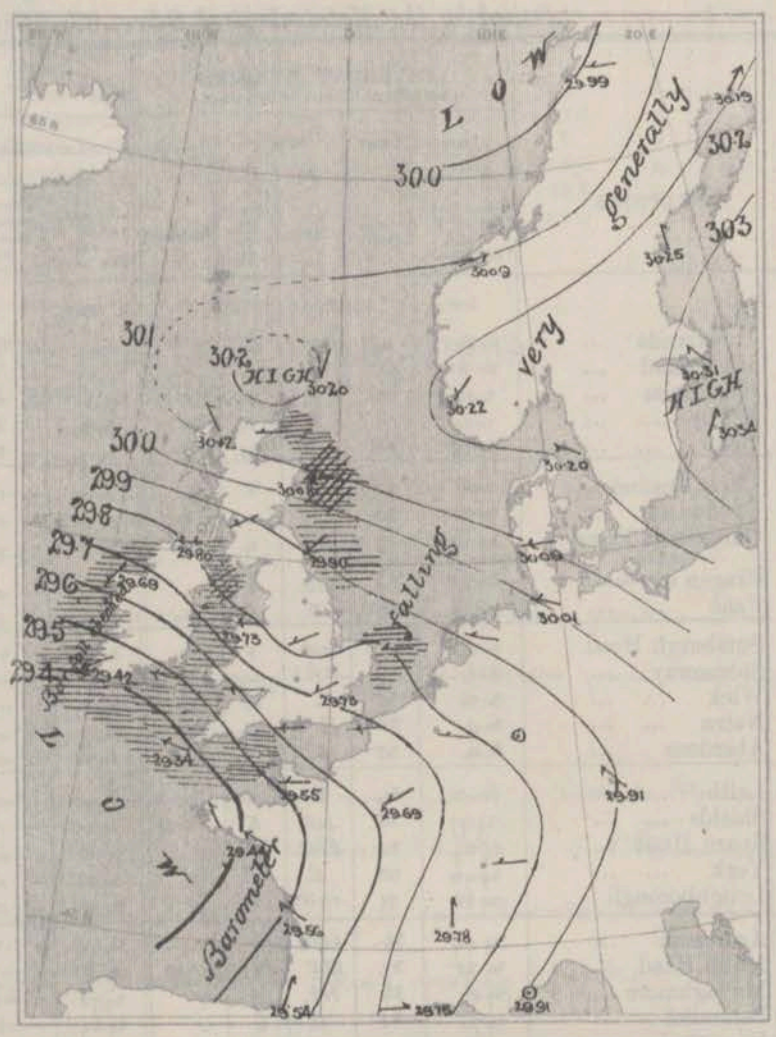
BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

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

WIND.—Arrows shew the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus—
▶—▶ = forces above 10; ▶——▶ = forces 8 to 10;
——▶ = forces 5 to 7; ——▶ = forces 1 to 4.
○ = dead calm.

SEA DISTURBANCE.—Where considerable, is shewn thus:
▒ = Rough. ▒ = High.



MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of January.
During the 20 Years: 1871—1890.

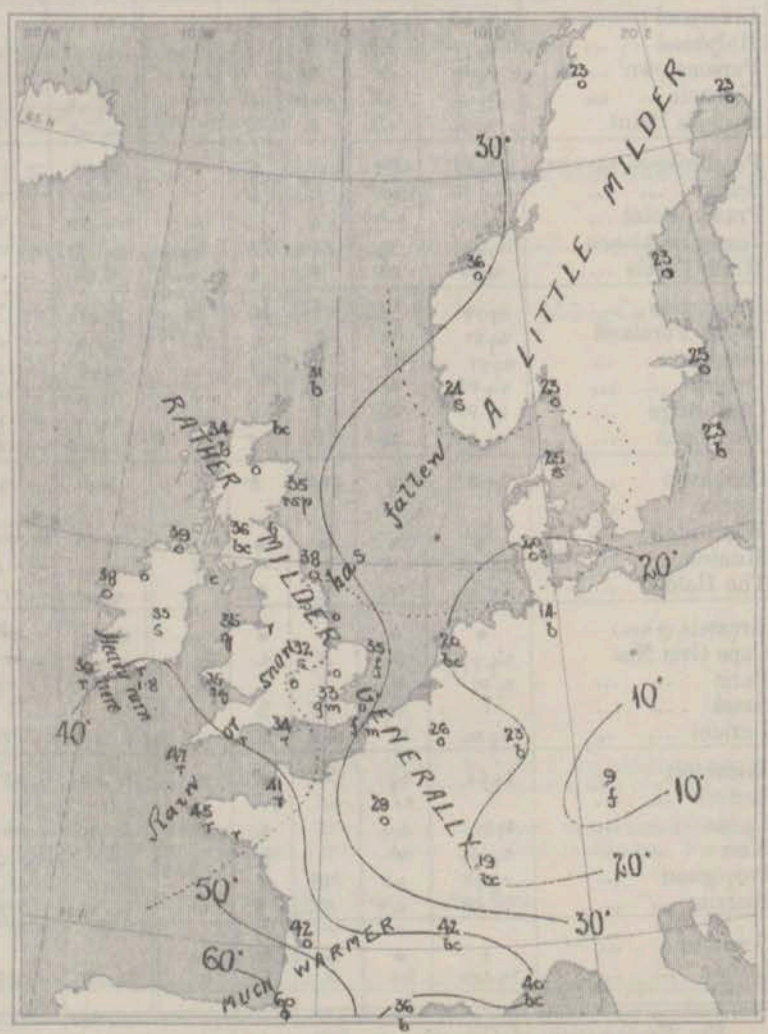
STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29·675
Stornoway	29·682
Wick	29·719
Nairn	29·745
Aberdeen	29·787
Leith	29·835
Shields	29·851
Spurn Head	29·926
York	29·932
Loughborough	29·967
Ardrossan	29·838
Mullaghmore	29·817
Donaghadee	29·856
Holyhead	29·902
Liverpool	29·924
Parsonstown	29·895
Valencia	29·887
Roche's Point	29·908
Pembroke	29·936
Scilly	29·969
Prawle Point	30·006
Jersey	30·042
Hurst Castle	30·002
Dover	30·012
LONDON	30·006
Oxford	29·999
Cambridge	29·993
Yarmouth	29·979

TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE.—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shown by Letters of the Beaufort Scale.

RAINFALL.—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.



MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of January.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	RAINFALL (Inches.)
Sumburgh Head	42·9	35·6	39·7	38·4	3·72
Stornoway	43·3	34·5	39·5	38·4	5·39
Wick	42·4	33·3	38·2	36·8	2·05
Nairn	42·2	32·9	37·2	35·6	1·99
Aberdeen	42·4	33·2	37·3	35·8	2·34
Leith	44·4	33·7	38·6	37·2	1·93
Shields	43·0	34·2	38·2	36·9	1·75
Spurn Head	41·7	34·5	37·7	36·7	1·35
York	42·7	32·5	36·7	35·7	1·87
Loughborough	43·0	32·3	36·4	35·4	2·04
Ardrossan	44·2	36·3	40·0	38·8	4·25
Mullaghmore	46·1	38·0	41·6	40·4	4·30
Donaghadee	44·4	36·1	40·0	39·2	2·98
Holyhead	45·6	38·7	41·7	40·3	3·38
Liverpool	43·5	35·2	38·6	37·0	2·22
Parsonstown	45·6	34·2	38·9	37·8	3·12
Valencia	49·5	40·4	44·5	43·3	6·69
Roche's Point	47·7	39·5	43·2	41·9	5·50
Pembroke	45·5	39·6	42·7	41·3	3·75
Scilly	48·8	42·9	46·4	44·9	3·73
Prawle Point	46·2	37·6	42·0	41·0	3·09
Jersey	45·8	38·3	41·8	40·4	3·21
Hurst Castle	45·0	36·3	40·3	39·5	2·94
Dover	43·5	35·8	39·2	38·1	2·58
LONDON	44·1	33·9	37·6	36·6	2·12
Oxford	43·1	33·6	37·1	36·1	2·26
Cambridge	43·3	31·7	36·2	35·4	1·54
Yarmouth	41·5	34·8	37·5	36·7	1·95

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·3 ins: and upwards, in the south of Scotland.
Lowest, 29·4 ins: and less, in a depression lying off our southwest coasts and also in another disturbance lying to the westward of Iceland.
Gradients moderate to rather steep over our Islands, slight over the Continent.
Barometer falling generally, most in the south.

TEMPERATURE

Highest, 60° at Biarritz, 57° at Lisbon, 47° at Malta, 45° at Brest, 44° at Orient, and 42° at Rochefort.
Lowest, 9° at Munich, 14° at Cuxhaven, 19° at Belfast, 20° at Lyons and the Helder, and 23° at most of the Scandinavian stations, as well as at Wiesbaden.
A slight rise has taken place in nearly all parts of the United Kingdom, and the frost has disappeared from all but our more central districts.

WIND

Moderate to strong from the E.ly over the greater part of our area, with a fresh to strong gale in the north of Ireland.
S.ly or SW.ly at many of the Scandinavian stations, as well as in the southwest of France, strong from the SE.ly at Lisbon.

WEATHER

Fine in many parts of Scotland and also in the south of France, but dull elsewhere, with rain or sleet in all the more southwestern parts of the United Kingdom and mist or fog in the southeast of England. Snow is also falling at Loughborough and sleet showers at Aberdeen.
Since yesterday morning rain or snowfall has fallen at all but our eastern and southeastern stations, the largest amount being 1·8 ins: at Rochdale.

SEA

High at Aberdeen and Donaghadee, and rough or rather so on all but our east and southeast coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 9th January, 1893.

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	The North Cone was hoisted yesterday in districts 0 to 2, 7, and 8. The signals are now flying on all coasts except district 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.	F.	WEA.	SEA.
Skudesnaes ...	30·34	30	27	SE	2	c	2
Sumburgh Head	30·26	33	32	NE	1	bc	2
Stornoway	30·19	37	36	SE	4	c	4
Aberdeen	30·16	36	33	E	7	cgrap	6
Shields	30·00	36	34	E	4	o	5
Ardrossan	30·00	36	35	ENE	2	c	1
Malin Head ...	29·88	36	35	ESE	7	o	3
Mullaghmore ...	29·80	35	34	NE	6	ograp	5
Belmullet	29·74	35	34	NE	4	o	*
Holyhead	29·80	32	31	E	5	og	4

	BAR.	THER. Dry.	THER. Wet	WIND. Direc	F.	WEA.	SEA.
Valencia	29·48	45	43	E	5	cq	4
Scilly	29·53	48	47	SE	6	o	5
Jersey	29·49	37	35	ESE	3	c	3
Hurst Castle ...	29·77	33	33	E	6	om	4
Dungeness... ...	29·81	33	32	E	3	bc	3
North Foreland...	29·83	33	31	SE	2	b	4
London	29·85	31	29	ESE	2	og	*
Yarmouth	29·89	34	33	ESE	4	og	5
Rochefort	29·69	37	37	SE	4	o	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather in morning still fine and bright over the Baltic, central and southeastern Europe and on the Algerian coast, as well as in the northwest and west of Scotland, dull gloomy and very unsettled elsewhere, with rain over the northwest of Spain, Brittany, and the southeast of Ireland, sleet at Oxford, snow at Munich, showers in the east of Scotland. Sleet and rain later over our western district (heavy rain at Rockabill), gloomy, foggy weather over England.

Temperature rises very decidedly over Scotland and Russia, as well as over Spain and the southwest of France, slightly in the northeast of England. Morning readings exceeding 50° at Malta, Nemours and Lisbon, and exceeding 40° at some other southern stations, as well as on our extreme southwestern coasts; much lower elsewhere. Lowest (1) – 17° F. at Haparanda, – 11° at Kharkov, – 10° at Riga, 0 (Zero) at Neustahrwasser and Breslau, 3° at Berlin, 9° at Munich; (2) 19° to 26° over Central France; (3) 27° to 30 over our own inland counties. Rising very slightly over England later, and slightly exceeding the freezing point towards evening. Touching 54° at Biarritz, 51° at Palermo, 61° at C. Bean and Tunis, 63° at Algiers.

Wind E. to SE. over almost the whole of Europe, but more S. over Sweden and SW. at Christiansund; very variable over the Mediterranean. Blowing strongly on our western coasts and over many parts of the Adriatic, moderately elsewhere, except over northern and central Russia, where it was nearly calm. Increasing greatly over Portugal.

Barometer highest 30·8 ins. and more to 30·2 ins. in an anticyclone lying over Russia and spreading westwards to the North Sea, Germany, and Austria. Lowest 29·6 ins. and less over the Atlantic – to the westward of the Bay of Biscay, and below 29·7 ins. over the southeastern part of the Mediterranean. Falling generally during day – most over the southwestern and western countries.

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 made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. 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, 9th January, 1893

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. Reading at 32° F. and Sea Level.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	THIS MORNING. (See note at bottom of last page.) Barometer. Reading at 32° F. and Sea Level.	Barometer. Change since Yesterday Morn.	Shade Temp. Dry Bulb.	Shade Temp. Wet Bulb.	Shade Temp. Change in dry since Yesterday.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	Sea (0 to 9).	PAST 24 HOURS. Weather.	Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
		Ins.	°				Ins.		°	°	°							°	Ins.
SCANDINAVIA.	Haparanda ...	29.87	19	SW	2	c	29.60	-.59	23	21	- 1	SW	2	c	*	o	25	16	0.08
	Hernösand ...	29.97	10	2	0	b	29.67	-.58	23	22	0	ESE	1	o	*	b	25	5	-
	Stockholm ...	30.05	17	W	2	o	29.89	-.42	13	13	- 12	WSW	2	b	*	o	28	?	-
	Wisby	30.13	27	SW	4	o	29.99	-.35	25	24	+ 2	SSW	4	o	*	o	28	18	-
	Bodö	29.66	31	SE	4	s	29.63	-.36	30	28	+ 7	WNW	6	s	5	s	32	19	-
	Christiansund...	30.00	35	SW	7	s	29.82	-.29	37	35	+ 1	NW	5	m	5	s	37	34	0.71
	Skudesnaes ...	30.09	23	2	0	b	29.97	-.25	23	23	- 1	2	0	o	2	b	28	19	-
	Christiania Fjord (Farder)	30.14	19	NNW	7	f	29.96	-.26	17	17	- 6	NW	2	f	1	f	23	16	-
	Skagen (The Scaw)	30.08	21	ESE	1	o	29.94	-.26	20	20	- 5	SE	1	f	o	o	25	19	-
	Fanö	29.93	21	E	4	c	29.84	-.16	21	21	+ 1	E	2	c	*	c	25	19	-
BRITISH ISLANDS	Sumburgh Head	30.10	32	2	0	b	30.00	-.20	34	32	+ 3	NNW	1	o	2	b	36	29	-
	Stornoway ...	29.99	35	E	4	bc	29.92	-.20	35	34	+ 1	ESE	4	b	4	b.bc	36	32	-
	Wick	29.99	35	NE	2	c	29.95	-.17	38	37	+ 3	SE	3	o	4	o	38	34	-
	Nairn	29.99	35	NE	2	c	29.96	-.11	34	33	- 1	2	0	o	1	c	36	33	-
	Aberdeen ...	30.01	36	E	6	ogq	29.98	-.10	36	33	+ 1	ESE	3	og	5	p.gq	37	35	0.02
	Leith	29.90	38	E	4	b	29.92	-.03	37	36	0	E	2	c	*	b	39	36	-
	Shields	29.84	38	E	3	o	29.88	-.02	39	37	+ 1	ENE	2	o	5	o	39	36	-
	Spurn Head ...	29.77	36	E	4	og	29.79	-.02	36	36	+ 1	NNE	1	og	3	og.r	36	34	0.02
	York	29.80	36	E	1	o	29.84	-.01	35	35	0	E	1	o	*	b	36	33	0.03
	Loughborough	29.76	34	NE	2	o	29.79	-.03	34	34	+ 2	NE	2	ogm	*	o	35	31	0.04
	Ardrossan ...	29.83	38	ENE	2	o	29.87	-.02	36	36	0	ENE	2	o	1	o	38	34	-
	Malin Head ...	29.71	39	SE	4	or	29.79	-.01	39	38	0	SE	5	ogm	2	o.r	40	38	0.02
	Mullaghmore ...	29.65	38	NE	6	dg	29.74	+.01	39	38	0	NNE	5	om	4	dg	42	36	0.09
	Belmullet ...	29.59	38	NE	6	o	29.72	+.03	39	38	+ 1	E	4	o	*	o	39	36	0.19
	Donaghadee ...	29.74	39	ESE	8	r	29.83	.00	40	39	+ 1	ESE	8	c	7	r	40	38	0.04
	Liverpool (Bidston)	29.74	34	E	3	o	29.80	+.01	36	36	+ 1	E	2	o	3	o	36	33	0.09
	Holyhead ...	29.64	35	E	7	rqm	29.73	.00	36	36	+ 1	E	5	bc	5	op.qm	37	34	0.11
	Parsonstown ...	29.57	37	NE	1	f	29.73	+.13	38	37	+ 3	2	0	om	*	r.o	40	34	0.11
	Valencia	29.41	46	E	6	ogmd	29.64	+.22	44	42	+ 5	E	3	c	4	ogmd	47	35	0.02
	Roche's Point	29.49	45	E	7	o	29.66	+.20	44	43	+ 4	ESE	5	m	5	r.op	46	39	0.80
	Pembroke (St. Ann's Hd.)	29.55	37	E	4	o	29.68	+.15	37	36	+ 2	ENE	4	cgm	4	o	38	34	0.03
	Scilly	29.44	50	SSE	4	c	29.58	+.24	45	45	- 2	ENE	4	r	3	c	53	45	0.06
	Prawle Point ...	29.56	44	E	3	r	29.61	-.02	39	39	- 2	ENE	5	r	4	r.f	44	38	0.29
	Jersey (St. Aubin's)	29.60	44	ENE	3	ogpm	29.57	+.02	44	43	+ 3	ESE	3	orm	3	ogpm	44	40	0.45
	Hurst Castle ...	29.64	37	E	6	m	29.66	.00	36	35	+ 2	ENE	4	orm	3	m	37	34	0.03
	Dungeness ...	29.67	37	ESE	5	om	29.68	.00	40	? 40	+ 6	ENE	3	d	3	rm.om	40	33	0.15
	North Foreland	29.69	39	E	2	og	29.69	-.04	39	38	+ 4	E	2	og	3	r	39	33	0.13
	London	29.70	34	E	3	ogm	29.72	-.01	37	36	+ 4	ENE	2	ogf	*	or.d	37	33	0.12
	Oxford	29.71	34	E	1	o	29.74	.00	33	33	+ 2	NE	3	ogrs	*	o	34	31	0.04
	Cambridge ...	29.76	35	NE	1	o	29.76	-.01	34	34	+ 2	NE	1	o	*	o	35	30	0.01
	Yarmouth ...	29.75	38	ESE	5	rq	29.75	-.03	36	35	+ 1	ENE	4	ogm	4	gr	36	33	0.11
GERMANY & HOLLAND	Cuxhaven ...	30.04	21	ESE	3	c	29.82	-.19	24	23	+ 10	SE	2	c	*	c	24	14	-
	Berlin	30.05	13	ESE	3	b	29.91		19	18		SE	2	bc	*	b	19	12	-
	Wiesbaden ...	*	*	*	*	*	29.84	-.12	28	27	+ 5	E	2	o	*	*	28	23	-
	Munich ...	29.89	5	SW	2	b	29.82	-.09	10	10	+ 1	NE	4	c	*	b	14	? 3	-
	The Helder ...	29.88	24	E	2	o	29.80	-.11	28	27	+ 8	ENE	1	o	1	o	28	19	-
BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	29.72	-.07	37	35	+ 11	SSE	1	o	*	o	37	26	0.04
	Cape Gris Nez	29.69	34	E	2	m	29.67	-.04	37	35	+ 11	E	2	m	2	m	36	26	-
	Paris	29.71	39	E	2	o	29.68	-.01	37	36	+ 8	ENE	2	o	*	o	42	29	-
	Brest	?	47	SE	5	c	?	?	44	44	- 1	E	2	r	3	c	50	36	0.32
	Lorient	29.52	44	ESE	4	o	29.48	+.07	44	44	0	ESE	5	r	4	o	48	43	0.47
FRANCE AND	Rochefort ...	29.59	45	SSE	4	c	29.56	.00	45	44	+ 3	SSE	4	o	*	c	49	41	-
	Belfort	?	20	E	3	bc	?	?	20	19	+ 1	E	4	bc	*	bc	30	18	-
	Lyons	29.80	42	S	2	b	29.73	-.05	37	36	- 5	E	1	b	*	b	50	37	-
	Nice	29.91	42	2	0	o	29.89	-.02	39	36	- 1	NE	2	o	2	o	46	39	-
	Perpignan ...	29.77	50	S	3	o	29.73	-.02	44	44	+ 8	W	2	bc	*	o	57	36	-
	Biarritz	29.53	63	SSW	4	o	29.56	+.02	59	52	- 1	SW	4	o	2	o	63	50	-
PENINSULA.	Corunna	*	*	*	*	*										*			
	Lisbon														*				

For Explanation of Columns, see bottom of last page.

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

WEATHER CHARTS

for 8 a.m. on Monday, 9th Jan. 1893.

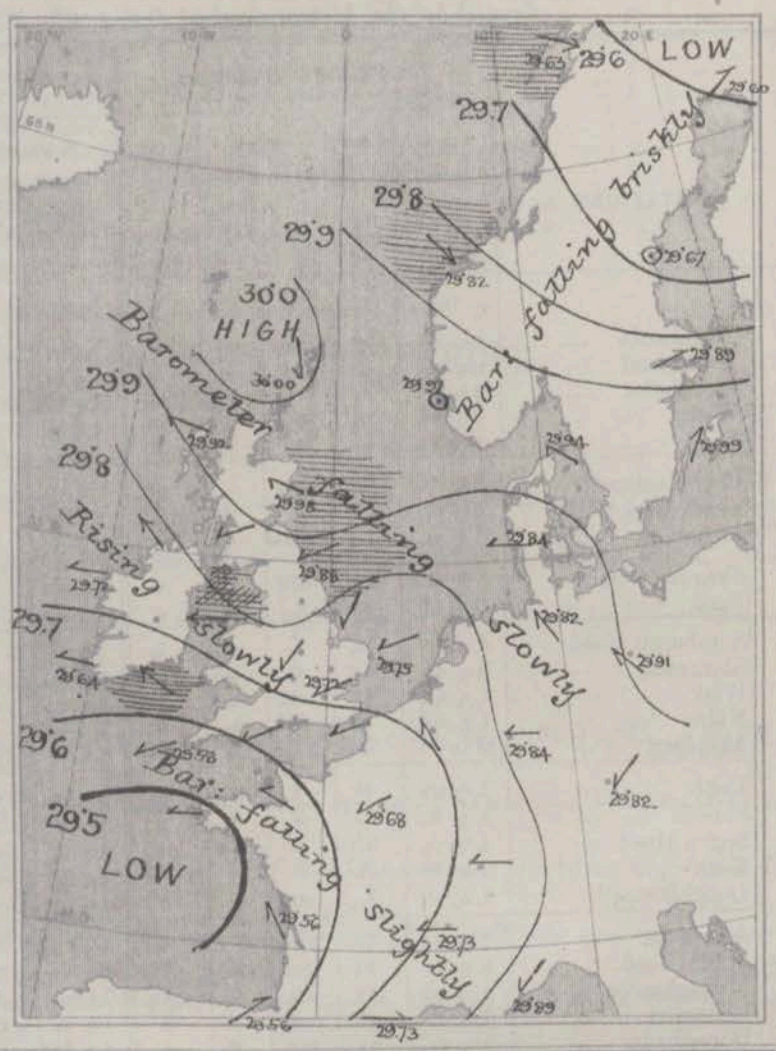
BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

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

WIND—Arrows shew the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus—
= forces above 10; = forces 8 to 10;
= forces 5 to 7; = forces 1 to 4.
= dead calm.

SEA DISTURBANCE—Where considerable, is shewn thus:
= Rough. = High.



MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of January.
During the 20 Years: 1871—1890.

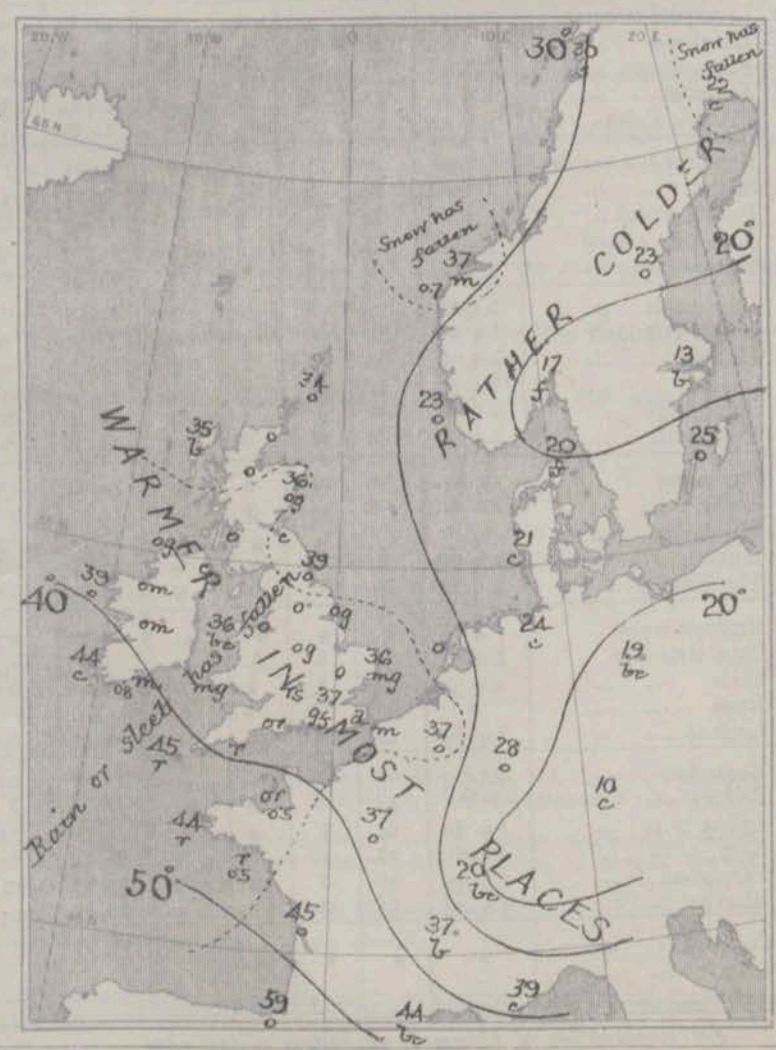
STATIONS.	MEAN READINGS. ins.
Sumburgh Head	29·675
Stornoway	29·682
Wick	29·719
Nairn	29·745
Aberdeen	29·787
Leith	29·825
Shields	29·881
Spurn Head	29·926
York	29·932
Loughborough	29·967
Ardrossan	29·838
Mullaghmore	29·817
Donaghadee	29·856
Holyhead	29·902
Liverpool	29·924
Parsonstown	29·895
Valencia	29·887
Roche's Point	29·908
Pembroke	29·936
Scilly	29·969
Prawle Point	30·006
Jersey	30·022
Hurst Castle	30·002
Dover	30·012
LONDON	30·006
Oxford	29·993
Cambridge	29·993
Yarmouth	29·979

TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.



MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of January.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	as 8 a.m. Dry.	Wet.	RAINFALL. (Inches.)
Sumburgh Head	42·9	35·6	39·7	38·4	3·72
Stornoway	43·3	34·5	39·5	38·4	5·30
Wick	42·4	33·3	38·2	36·8	2·05
Nairn	42·2	32·9	37·2	35·6	1·99
Aberdeen	42·4	33·2	37·3	35·6	2·31
Leith	44·4	33·7	38·6	37·2	1·93
Shields	43·0	34·2	38·2	36·9	1·75
Spurn Head	41·7	34·5	37·7	36·7	1·35
York	42·7	32·5	36·7	35·7	1·87
Loughborough	43·0	32·3	36·4	35·4	2·04
Ardrossan	44·2	36·3	40·0	38·8	4·23
Mullaghmore	46·1	38·0	41·6	40·4	4·36
Donaghadee	44·4	36·1	40·0	39·2	2·98
Holyhead	45·6	38·7	41·7	40·3	3·33
Liverpool	43·5	35·2	38·6	37·0	2·22
Parsonstown	45·6	34·2	38·9	37·8	3·12
Valencia	49·5	40·4	44·5	43·3	6·69
Roche's Point	47·7	39·5	43·2	41·9	5·50
Pembroke	45·5	39·6	42·7	41·3	3·75
Scilly	48·8	42·9	46·4	44·9	3·73
Prawle Point	46·2	37·6	42·0	41·0	3·09
Jersey	45·8	38·3	41·8	40·4	3·21
Hurst Castle	45·0	36·3	40·3	39·5	2·94
Dover	43·5	35·8	39·2	38·1	2·58
LONDON	44·1	34·8	37·6	36·6	2·12
Oxford	43·1	33·6	37·1	36·1	2·26
Cambridge	43·3	31·7	36·2	35·4	1·54
Yarmouth	41·5	34·8	37·3	36·7	1·95

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·00 ins: at Lerwick, 29·99 ins: at Wick, 29·9 ins: and upwards in a broad "col" stretching from the Baltic across the North Sea to Scotland and the Atlantic.

Lowest, 29·5 ins: and less, in a depression lying over the northern part of the Bay of Biscay, 29·6 ins: and less in the north of Scandinavia.

Gradients slight. Barometer rising over Ireland and England, but falling elsewhere, — most in Scandinavia.

TEMPERATURE

Highest, 63° at Biarritz, 45° at Scilly and Rochefort, and 44° at Valencia Island, Jersey, Brest, Lorient, and Perpignan.

Lowest, 10° at Munich, 13° at Stockholm, 17° at Flensburg, 19° at Berlin, and 20° at Skagen and Belfort.

A further slight rise has taken place in most parts of the United Kingdom.

WIND

E$^{\frac{1}{4}}$N (NE to SE) over our Islands, Denmark, Germany, the Netherlands and the greater part of France; light or moderate in force generally, but strong to a gale over the Irish Sea.

W$^{\frac{1}{4}}$ at most of the Scandinavian stations; S$^{\frac{1}{4}}$ or SW$^{\frac{1}{4}}$ in the southwest of France.

WEATHER

Cloudy or overcast generally, with rain at all the Channel stations and also in the northwest of France.

Rain fell yesterday in all parts of Ireland and England, the largest amounts being 0·8 inch at Roches Point, and 0·5 inch at Jersey.

SEA

High at Danzig and rather rough on our northeast and northwest coasts generally.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression over the Bay of Biscay seems likely to move eastwards, and the rainy weather over the Channel will probably extend to the east and southeast of England. Temperature is likely to remain rather low generally.

FORECASTS

For the 24 hours ending at NOON on 10th January 1893.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	E$^{\frac{1}{4}}$N to NE$^{\frac{1}{4}}$N winds, light or moderate; fair generally.	6 SCOTLAND WEST 7 ENGLAND N.W.	Same as No. 0 and 1.
2 ENGLAND N.E. 3 ENGLAND EAST 4 MIDLAND COUNTIES	Same as No. 5.	8 ENGLAND S.W.	NE$^{\frac{1}{4}}$N winds, freshening; dull and rainy to fair.
5 ENGLAND SOUTH	NE$^{\frac{1}{4}}$N winds, light or moderate; dull, gloomy, some rain.	9 IRELAND NORTH 10 IRELAND SOUTH	E$^{\frac{1}{4}}$N to NE$^{\frac{1}{4}}$N winds, moderate or fresh; fair generally.
		WARNINGS	At 10·20 a.m. to districts 0, 1, 2 and 7 "Lower Cone". The signals are still flying in district 8.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·16	28	26	ENE	1	b	2
Sumburgh Head							
Stornoway	30·05	36	35	SE	4	b	4
Aberdeen							
Shields							
Ardrossan							
Malin Head ...	29·72	40	38	E	7	o	4
Mullaghmore ...							
Belmullet	29·63	38	37	NE	7	o	*
Holyhead	29·63	35	35	E	7	o|o	6

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia							
Scilly							
Jersey	29·56	44	42	ENE	3	o	3
Hurst Castle ...							
Dungeness... ...	29·67	35	33	ESE	5	1	4
North Foreland...	29·65	35	34	ESE	4	1	3
London							*
Yarmouth							
Rochefort	29·58	49	47	SSE	4	c	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather in morning fine and bright over Russia and North Germany, as well as at stations on the southern and southeastern sides of the Mediterranean and in the south of Scotland; very dull elsewhere, and unsettled over our Islands. Rain falling on our southern and western coasts and at Madrid, sleet at Aberdeen, snow at the Scaw; rainfall at Roche's Point very heavy. Rain or sleet later at all the Irish and English stations and in the west of France, heavy snow at Christiansund and a little at Haparanda.

Temperature rising over Europe as a whole – especially in the south of France – falling in the south of Ireland, frost breaking up over the British Islands and France. Highest morning readings 60° at Jersey, 57° at Lisbon, 55° at Algiers, 47° at Scilly. Lowest –5° F. at Riga, –2° at Moscow, Cracow, and Kiew, (Zero) at Odessa, 1° at St. Petersburg and Warsaw, 6° at Hermanstadt and below 10° over the eastern parts of Germany. Rising later to between 35° and 40° over the greater part of England and Scotland, and to 50° at Brest and Lyons.

Wind mainly E^ly over Europe – moderate in most places – but fresh to a gale on the coasts of the British Islands; SW^ly over the N^rn half of Scandinavia (strong at Christiansund), SE^ly strong in the southwest of Spain. (Newspapers report gales at Lisbon later).

Barometer 30·8 ins. and more to 30·2 ins. in an anticyclone covering Russia, Poland, eastern Prussia, the Baltic and Scandinavia, and exceeding 30·2 ins. in a small secondary system lying to the westward of the Shetlands. Lowest 29·4 ins. and less in a depression lying to the westward of Scilly, and in another approaching Lisbon from the westward. Latter system advancing over Portugal later, but former filling up.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD.

FROM THE 1st TO 7th JAN. 1893.

During the past week hard frost continued to prevail in nearly all parts of Gt Britain, with occasional thick fogs over the inland parts of England. Snow was frequent in the north and towards the close of the period it extended to our more southern districts, while heavy and continuous rain fell in the south of Ireland. Barometrical pressure was highest over the northern parts of Russia and Scandinavia, some unusually high readings being reported in these regions about the middle of the week; in the north of Sweden the barometer on the 4th rose to 31·12 ins, while in the northern and central parts of Russia readings exceeding 31·2 ins. were recorded continuously from the 3rd to the 6th, the highest of all being 31·29 ins. at Moscow on the 4th. The lowest pressures have been usually found to the southwest of our Islands so that the prevailing winds have been E^ly. On the 3rd, however, when a shallow depression moved southwards down our east coasts they drew temporarily into N^ly or W. Towards the close of the week a well marked depression which had appeared off our southwest coasts spread gradually eastwards over Ireland and England and occasioned strong winds or gales from the E^ward on many parts of our coasts, with snow in Gt Britain and with heavy rain in Ireland. Further low pressure systems were also advancing over Scandinavia from the W^ward and the anticyclone over northern Europe was gradually giving way.

The lowest temperatures were reported on the 5th or 6th when the thermometer fell below 10° in many parts of Gt. Britain. At many of the inland English stations temperature remained below the freezing point during the entire week.

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 made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. The time at each Station is the Standard Time of its Country.

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DAILY WEATHER REPORT

for 8 a.m. on TUESDAY 10TH JANUARY. 1893

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. Reading at 32° F. and Sea Level.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	THIS MORNING. (See note at bottom of last page.) Barometer. Reading at 32° F. and Sea Level.	Barometer. Change since Yesterday Morn.	Shade Temp. Dry Bulb.	Shade Temp. Wet Bulb.	Shade Temp. Change in dry since Yesterday.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	Sea (0 to 9).	PAST 24 HOURS. Weather.	Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
		Ins.	°				Ins.		°	°	°							°	Ins.
SCANDINAVIA.	Haparanda ...	29.63	14	2	0	0	29.89	+29	9	8	−13	NNE	4	b	•	0	23	9	0.12
	Hernösand ...	29.80	20	2	0	b	29.96	+29	17	16	−6	2	0	be	•	b	28	3	—
	Stockholm ...	29.77	17	W	2	0	29.79	−16	22	21	+9	NNW	2	be	•	0	?	10	0.04
	Wisby	29.76	29	SSW	4	0	29.66	−23	25	23	+4	NE	6	0	•	0	29	21	0.12
	Bodö	29.81	33	NW	4	c	30.08	+45	26	24	−4	E	2	0	1	c	33	23	—
	Christiansund...	30.04	34	ENE	4	c	30.20	+38	35	32	−2	ENE	3	c	4	c	?	32	—
	Skudesnaes ...	29.91	32	NNW	6	b	30.10	+13	28	27	+5	NNE	2	b	2	o, b	32	23	—
	Christiania Fjord (Faerder)	29.86	21	NNW	2	b	29.98	+02	29	28	+12	NNW	4	b	1	b	?	19	—
	Skagen (The Scaw)	29.81	28	NE	2	c	29.91	−03	28	26	+8	NE	5	b	3	c	28	19	—
	Fanö	29.80	23	N	1	0	29.92	+08	22	20	+1	N	4	b	•	0	27	19	—
BRITISH ISLANDS	Sumburgh Head	30.02	36	N	2	c	30.24	+24	38	36	+4	NE	8	c	3	b, c	39	38	0.06
	Stornoway ...	30.06	35	ESE	4	b	30.24	+22	36	35	+1	2	0	0	3	b	37	30	—
	Wick	29.77	28	E	2	be	30.22	+23	39	37	+1	E	4	cu	3	be	39	26	—
	Nairn	30.03	35	ESE	1	c	30.22	+26	34	33	0	Z	0	0	1	c	35	28	0.04
	Aberdeen ...	30.04	34	NNW	2	be	30.22	+24	39	34	+3	NE	8	0	4	c, be	39	31	—
	Leith	30.01	36	E	2	0	30.18	+26	37	36	0	E	2	c	•	0	39	34	0.01
	Shields	29.96	39	NE	3	0	30.11	+23	40	37	+1	NE	3	c	4	0, r	40	35	0.12
	Spurn Head ...	29.83	36	ENE	3	cr	30.02	+23	38	37	+2	NNE	3	bcr	3	cr, f	38	35	0.01
	York	29.92	36	NNE	1	0	30.09	+25	32	32	−3	N	1	be	•	0	36	32	0.01
	Loughborough	29.86	35	NE	3	0	30.04	+25	35	34	+1	NNW	2	cm	•	0	36	33	—
	Ardrossan ...	29.99	36	ENE	3	cm	30.16	+29	34	33	−2	NE	1	bm	1	c, cm	38	31	—
	Malin Head ...	29.93	40	E	6	om	30.16	+33	39	36	0	ENE	5	o	2	o, om	41	38	—
	Mullaghmore ...	29.91	40	NE	5	om	30.13	+30	36	34	−3	NE	4	b	3	o, mg, om	40	35	—
	Belmullet ...	29.88	41	SE	4	be	30.13	+41	38	36	−1	ENE	8	o	•	be	42	37	—
	Donaghadee ...	29.96	40	ESE	7	be	30.15	+32	40	38	0	E	6	c	5	be	40	38	—
	Liverpool (Bidston)	29.87	36	ENE	2	0	30.10	+30	34	33	−2	NNE	1	c	1	0	37	33	—
	Holyhead ...	29.86	37	E	4	c	30.08	+35	37	35	+1	E	3	cg	3	cmg, c	38	35	—
	Parsonstown ...	29.85	40	E	0	0	30.08	+35	37	35	−1	E	0	b	•	0	40	35	—
	Valencia	29.81	45	ENE	3	bm	30.04	+40	42	40	−2	E	2	0g	2	cm, bm	48	34	—
	Roche's Point	29.79	43	E	2	od	30.05	+39	40	40	−4	ENE	3	f	4	od	45	39	0.01
	Pembroke (St. Ann's Hd.)	29.77	38	E	3	r	30.02	+34	36	34	−1	ENE	3	cmg	3	r	38	34	0.16
	Scilly	29.65	45	NNE	4	0	29.92	+34	42	40	−3	ENE	4	c	3	r, o	47	39	0.12
	Prawle Point ...	29.71	38	NE	5	r	29.94	+33	35	35	−4	ENE	6	o	5	mr	47	35	0.25
	Jersey (St. Aubin's)	29.62	44	E	2	fd	29.85	+28	43	42	−1	NE	5	omg	4	o, fd	45	41	0.30
	Hurst Castle ...	29.72	38	ENE	3	rm	29.95	+29	36	35	0	NE	5	c	3	o, rm	39	34	0.69
	Dungeness ...	29.71	41	E	4	r	29.90	+22	38	36	−2	ENE	5	o	4	r	41	36	0.15
	North Foreland	29.73	40	E	2	rg	29.89	+20	39	38	0	E	4	of	4	o, rg	40	37	0.06
	London	29.78	36	NE	2	od	29.93	+25	35	34	−2	NE	2	omg	•	o, r, fo	38	34	0.34
	Oxford	29.85	34	NE	2	r	30.01	+23	34	33	+1	NE	1	og	•	or	34	33	0.23
	Cambridge ...	29.81	35	NE	1	r	30.03	+23	35	35	+1	N	1	c	•	r	35	32	0.07
	Yarmouth ...	29.79	36	ENE	5	0	29.94	+15	37	36	+1	NNE	4	be	4	cm, o	37	34	0.01
GERMANY & HOLLAND	Cuxhaven ...	29.75	24	NNE	3	c	29.89	+07	24	23	0	NNE	4	0	•	c	28	23	—
	Berlin	29.74	25	2	0	0	29.70	−21	22	22	+3	NW	3	0	•	0	25	18	—
	Wiesbaden ...						29.76	−08	34	33	+6	E	2	0	•	•	34	28	0.32
	Munich ...	29.78	22	2	0	c	29.69	−15	34	34	+24	NW	5	r	•	c	34	10	0.04
	The Helder ...	29.87	31	NE	3	c	29.95	+15	31	30	+3	NNE	2	b	2	c	36	27	—
FRANCE AND BELGIUM.	Brussels (9 a.m.)	•	•	•	•	•	29.87	+15	28	28	−5	ENE	3	c	•	r	38	27	0.08
	Cape Gris Nez	29.70	34	E	4	r	29.86	+15	33	32	−4	ENE	3	o	4	r	37	4	0.35
	Paris	29.70	41	E	2	r	29.76	+08	36	36	−1	NNE	3	o	•	r	47	35	0.32
	Brest		46	NNW	2	m	?	?	45	43	+1	NNE	3	o	3	m	48	42	0.04
	Lorient	29.63	45	NNW	3	m	29.78	+20	45	45	+1	N	4	o	2	m	46	43	—
	Rochefort ...	29.66	49	NNW	4	o	29.78	+22	46	46	+1	NNW	3	o	•	o	52	43	—
	Belfort	?	39	NE	1	c	?	?	41	39	+21	E	4	r	•	c	41	?	—
	Lyons	29.78	43	S	2	o	29.81	+08	39	39	+2	N	1	f	•	o, r	50	37	0.04
	Nice	29.85	42	SW	1	o	29.80	−03	41	37	+2	E	1	o	2	o	46	37	—
	Perpignan ...	29.78	52	NE	2	o	29.78	+05	45	45	+1	E	2	o	•	o	50	44	—
	Biarritz	29.78	54	NNW	5	o	29.80	+24	50	49	−5	NNW	2	o	1	o	?	46	0.16
PENINSULA.	Corunna	•	•	•	•	•													
	Lisbon	29.81	53	NE	1	be	29.84	+13	46	46	−3	NE	3	f	•	be	55	43	—

For Explanation of Columns, see bottom of last page.

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

WEATHER CHARTS

for 8 a.m. on Tuesday, 10th January, 1893.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

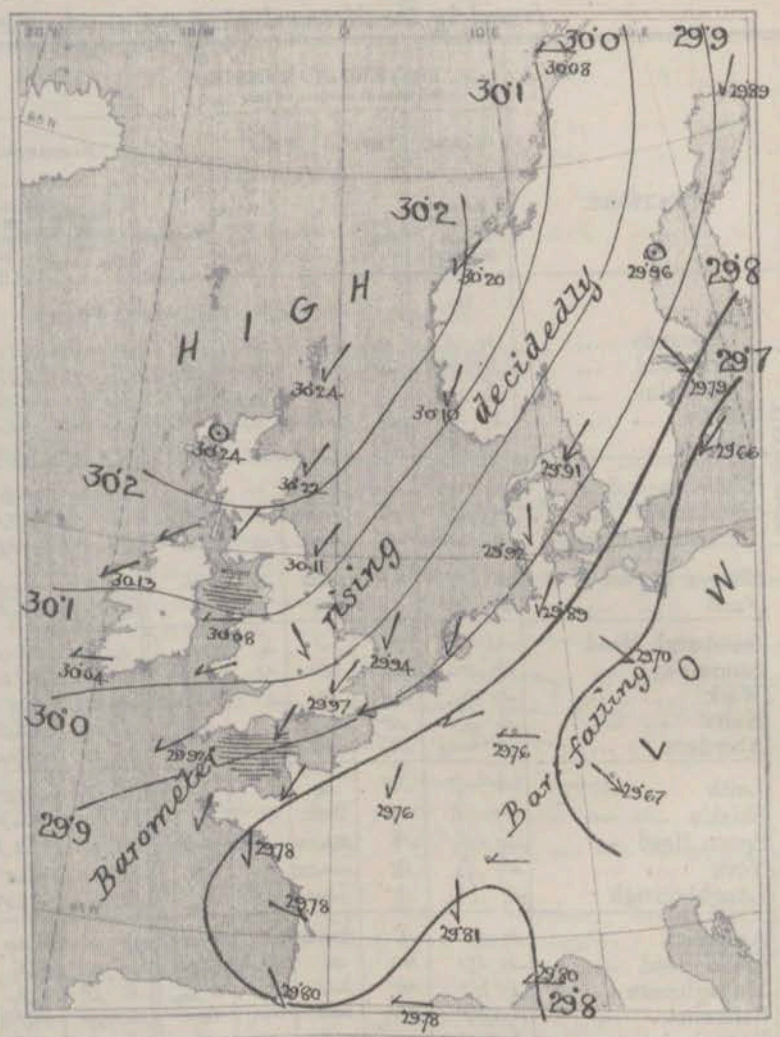
BAROMETER.—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

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

forces above 10; forces 8 to 10;
forces 5 to 7; forces 1 to 4.
Dead calm.

SEA DISTURBANCE.—Where considerable, is shewn thus:

= Rough. = High.



MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of January.
During the 20 Years: 1871—1890.

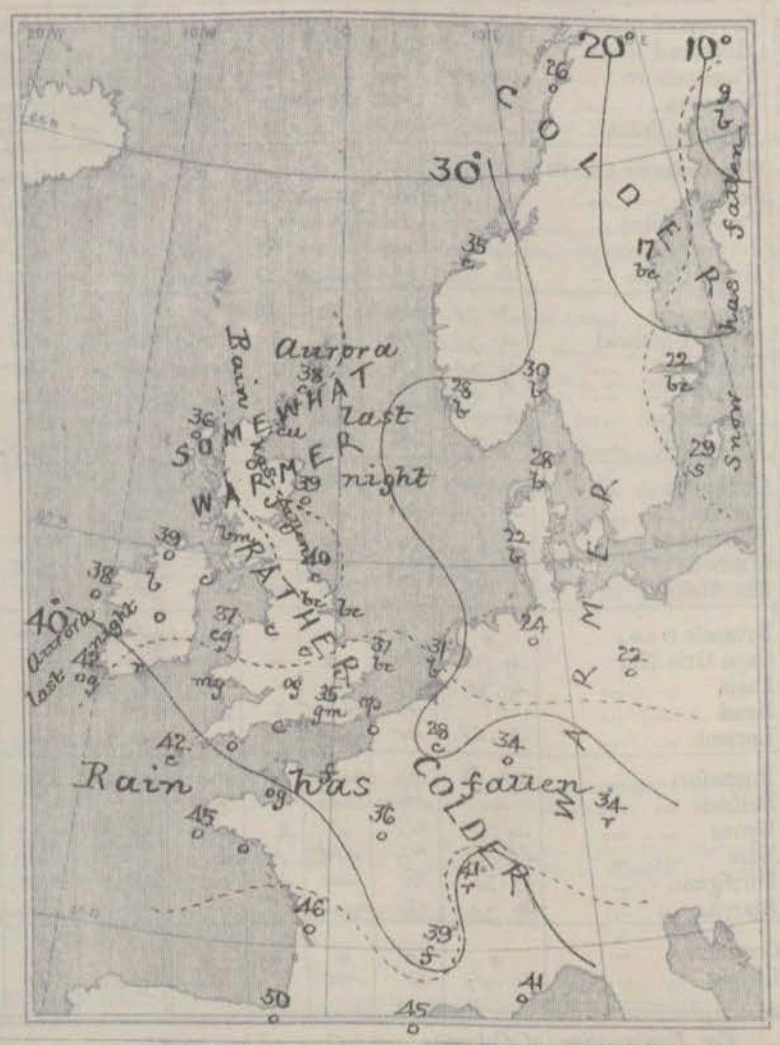
STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29·675
Stornoway	29·682
Wick	29·719
Nairn	29·745
Aberdeen	29·787
Leith	29·825
Shields	29·881
Spurn Head	29·926
York	29·932
Loughborough	29·967
Ardrossan	29·838
Mullaghmore	29·817
Donaghadee	29·856
Holyhead	29·902
Liverpool	29·924
Parsonstown	29·895
Valencia	29·887
Roche's Point	29·908
Pembroke	29·936
Scilly	29·969
Prawle Point	30·006
Jersey	30·012
Hurst Castle	30·002
Dover	30·014
LONDON	30·006
Oxford	29·999
Cambridge	29·993
Yarmouth	29·979

TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE.—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER.—is shewn by letters of the Beaufort Scale.

RAINFALL.—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.



MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of January.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	RAINFALL. (Inches.)
Sumburgh Head	42·9	35·6	39·7	38·4	3·72
Stornoway	43·3	34·5	39·5	38·4	5·40
Wick	42·4	33·3	38·2	36·8	2·05
Nairn	42·2	32·9	37·2	35·6	1·99
Aberdeen	42·1	33·2	37·3	35·6	2·34
Leith	44·1	33·7	38·6	37·2	1·93
Shields	43·0	34·2	38·2	36·9	1·75
Spurn Head	41·7	34·3	37·7	36·7	1·85
York	42·7	32·5	36·7	35·7	1·87
Loughborough	43·6	34·3	36·4	35·4	2·04
Ardrossan	44·2	36·3	40·0	38·8	4·25
Mullaghmore	46·4	38·0	41·6	40·4	4·36
Donaghadee	44·4	38·1	40·0	39·2	2·98
Holyhead	45·6	38·7	41·7	40·3	3·38
Liverpool	43·5	35·2	38·6	37·0	2·22
Parsonstown	45·9	34·2	38·9	37·8	3·12
Valencia	49·5	40·4	44·5	43·3	6·69
Roche's Point	47·7	39·5	43·2	41·9	5·50
Pembroke	45·5	39·6	42·7	41·3	3·75
Scilly	48·8	42·9	46·4	44·9	3·73
Prawle Point	46·2	37·6	42·0	41·0	3·09
Jersey	45·8	38·3	41·8	40·4	3·21
Hurst Castle	45·0	36·3	40·3	39·5	2·94
Dover	43·5	35·8	38·2	38·1	2·58
LONDON	44·1	34·8	37·6	36·6	2·12
Oxford	43·1	33·6	37·1	36·1	2·26
Cambridge	43·3	31·7	34·2	33·4	1·54
Yarmouth	41·5	34·8	37·5	36·7	1·95

NOTE. The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·2 in: and upwards in a large anticyclone lying over and to the northward of Scotland.
Lowest, 29·7 in: and less, in a large shallow depression lying over Germany and the Baltic.
Gradients slight. Barometer rising at all but the German stations.

TEMPERATURE

Highest, 50° at Biarritz, 46° at Rochefort and Lisbon, 45° at Brest, Lorient, and Perpignan, and 43° at Jersey.
Lowest, 9° at Haparanda, 17° at Hernösand, 22° at Stockholm, Tarin and Berlin, and 24° at Corthavn.
Frost occurred last night in the north of Scotland and also in some of the central parts of England.

WIND

NE^{ly} over our Islands, the North Sea, Denmark, and the greater part of Scandinavia; light or moderate in force generally but fresh at the Channel stations.
NW^{ly} in the west of France and also in Germany; light from the E^{ward} in the extreme south of France.

WEATHER

Fine at most of the Scandinavian and Danish stations, as well as in the east of England.
Cloudy or overcast elsewhere, with rain at Rochefort and also at Munich. Snow is falling at Wisby.
Rain fell yesterday in most parts of Gt Britain and France, the largest amounts being 0·7 in: at Hurst Castle and 0·6 in: at Cfin Hy.
Bright Aurora was seen last evening in Scotland and the west of Norway, as well as at Valencia Island.

SEA

Moderate to smooth generally, but rather rough at Donaghadee and Hurst Pt.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone in the north appears to be spreading southwards, and frost is likely to set in again over the greater part of the United Kingdom.

FORECASTS

For the 24 hours ending at NOON on 11th JANY. 1893.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	NE^{ly} to Variable breezes; fair generally, colder.	6 SCOTLAND WEST 7 ENGLAND N.W.	Same as No 5
2 ENGLAND N.E. 3 ENGLAND EAST 4 MIDLAND COUNTIES	Same as No 5	8 ENGLAND S.W.	NE^{ly} winds, falling light; fair generally.
5 ENGLAND SOUTH	NE^{ly} winds, light; fair generally and becoming frosty.	9 IRELAND NORTH 10 IRELAND SOUTH	E^{ly} and NE^{ly} winds, moderate; fair generally.
		WARNINGS	NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.92	51	50	N	2	o	2
Sumburgh Head	30.00	36	35	NNW	1	b	2
Stornoway	30.00	39	36	N	0	b	3
Aberdeen	30.01	39	34	NNE	2	c	4
Shields	29.91	38	36	NE	3	o	4
Ardrossan	29.92	38	36	ENE	3	cm	2
Malin Head ...	29.89	40	38	ESE	4	o	2
Mullaghmore ...	29.89	39	38	NE	5	cmq	4
Belmullet	29.93	42	40	SW	3	bc	*
Holyhead	29.79	38	39	E	4	cmq	4
Valencia	29.78	49	45	E	5	cm	4
Scilly	29.68	49	46	NNE	4	r	3
Jersey	29.88	45	44	ESE	1	ofd	2
Hurst Castle ...	29.76	38	38	ENE	3	ofm	3
Dungeness... ...	29.69	40	39	E	4	r	3
North Foreland...	29.70	40	39	E	3	o	4
London	29.78	39	39	E	2	fdq	*
Yarmouth	29.77	39	36	NE	4	cm	4
Rochefort	29.89	48	46	ONE	4	o	*

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

Weather in morning fine and bright over southeastern and central Europe as well as on the southern shores of the Mediterranean; dull elsewhere, and very unsettled over the southern parts of our Islands and the north and west of France. Rain at many stations in the latter region, snow at Rodi & Kuopio. Considerable rain over the south of England and north of France during the day, and slight falls at several of the northern and northeastern stations.

Temperature rose in over France, fallen over Russia, little changed elsewhere. Morning readings exceeding 50° at Malta and several of the Algerian and Spanish stations, and exceeding 40° in the west of France and southwest of our Islands; above the freezing point over the United Kingdom generally, but as low as −12° F to −5° over Russia, −1° at New Fahrwasser, +1° at Lemberg and Vienna, 5° at Prague, 10° at Munich and Swinemunde. Rising later to between 40° and 48° on our eastern and southern coasts, to 52° at Rochefort, and 58° at Perpignan, but not touching 40° on our northeast and east coasts.

Wind (1) NW^{ly} in Norway, SW^{ly} over Finland, S^{ly} in northern Russia; (2) Variable from the W^{ward} over Scandinavia, SE^{ly} in the northwest of France, E^{ly} and NE^{ly} over the United Kingdom; (3) Light and anticyclonic over Russia and southeastern Europe.

Barometer highest 30·6 ins. and more to 30·0 ins. in an anticyclone lying over Russia and southeastern Europe, and 30·0 ins. and more, in another (small) system off the north of Scotland. Lowest, 29·6 ins. and less, over Lapland, and below 29·5 ins. in a depression over the Bay of Biscay. Latter system moving northeastwards later, and the anticyclone in the north increasing in height and spreading southwards and southwards.

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 made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. The time at each Station is the Standard Time of its Country.

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		Ins.	°				Ins.		°	°	°							°	ins.
SCANDINAVIA.	Haparanda ...	30·24	−8	N	4	b	30·32	+·43	−14	−14	−23	N	2	b	*	b	18	?	-
	Hernösand ...	30·28	5	Z	0	b	30·35	+·39	−7	−7	−24	Z	0	b	*	b	21	?	-
	Stockholm ...	30·03	20	N	6	0	30·09	+·30	16	14	−6	N	6	0	*	0	29	12	-
	Wisby	29·86	25	NE	8	S	29·94	+·28	21	18	−8	NE	10	0	*	S	30	21	0·12
	Bodö	30·25	23	E	3	0	30·13	+·05	23	21	−3	E	4	0	*	0	27	18	-
	Christiansund...	30·33	35	NSW	3	S	30·23	+·03	33	?	−2	NSW	5	0	4	S0	36	1	0·28
	Skudesnaes ...	30·30	25	Z	0	b	30·26	+·16	27	26	−1	Z	0	0	1	b	31	21	-
	Christiania Fjord (Faarder)	30·19	31	NNW	5	0	30·29	+·31	24	21	−5	NE	2	0	1	0	32	23	-
	Skagen (The Scaw)	30·19	27	NE	4	0	30·28	+·37	21	20	−7	ENE	3	c	2	0	30	19	-
	Fanö	30·17	19	NE	2	b	30·28	+·36	22	21	0	NE	1	b	*	b	28	18	-
BRITISH ISLANDS	Sumburgh Head	30·38	36	N	2	bc	30·39	+·15	36	36	−2	N	2	4	3	0, bc	39	32	0·09
	Stornoway ...	30·38	36	SE	3	c	30·49	+·25	35	35	−1	Z	0	0	3	bc, c	39	30	-
	Wick	30·39	35	E	3	0	30·42	+·20	34	32	−5	N	2	0	2	0	39	28	0·03
	Nairn	30·37	35	Z	0	bc	30·47	+·25	35	34	+1	Z	0	0	1	bc	39	31	0·06
	Aberdeen ...	30·37	36	N	2	c	30·45	+·23	35	34	−4	NW	2	0g	4	c	39	33	0·02
	Leith	30·29	35	NNE	3	b	30·44	+·26	37	35	0	NNW	2	bc	*	b	40	34	-
	Shields	30·27	41	NE	3	0	30·40	+·29	39	38	−1	NE	2	c	4	0, 4	42	36	0·07
	Spurn Head ...	30·19	36	NE	4	bv	30·34	+·32	34	33	−4	NNE	1	bv	0	bv	40	33	-
	York	30·24	34	NNE	1	b	30·39	+·30	33	33	+1	N	1	bc	*	b	40	29	-
	Loughborough	30·21	34	NE	2	c	30·36	+·32	30	29	−5	N	1	bcm	*	c	39	22	0·01
	Ardrossan ...	30·36	37	Z	0	om	30·48	+·32	38	36	+4	Z	0	om	0	om	38	34	-
	Malin Head ...	30·31	40	SE	5	0	30·47	+·31	39	36	0	ENE	3	0	1	c, 0	41	38	-
	Mullaghmore ...	30·29	38	ENE	3	b	30·45	+·32	38	35	+2	ENE	3	0	2	b	40	35	-
	Belmullet ...	30·26	37	E	3	bc	30·48	+·35	33	31	−5	ENE	2	b	*	bc	39	31	-
	Donaghadee ...	30·31	41	E	6	bc	30·45	+·30	41	39	+1	E	6	c	5	bc	42	39	-
	Liverpool (Bidston)	30·25	36	NE	1	m	30·42	+·32	34	33	0	NNE	1	c	1	m	39	33	-
	Holyhead ...	30·23	40	ENE	3	cg	30·39	+·31	39	37	+2	NE	2	cg	2	b, cg	41	35	-
	Parsonstown ...	30·24	36	Z	0	0	30·43	+·35	35	33	−2	Z	0	0	*	0	40	33	-
	Valencia	30·18	42	ENE	4	om	30·38	+·34	37	33	−5	E	1	bc	1	om	45	35	-
	Roche's Point	30·18	40	E	3	c	30·35	+·30	38	36	−2	ENE	3	c	4	c	41	36	0·01
	Pembroke (St. Ann's Hd.)	30·15	36	NE	2	b	30·34	+·32	36	33	0	NE	3	0	2	b	38	32	-
	Scilly	30·04	40	ENE	4	c	30·20	+·28	39	35	−3	ENE	5	c	3	c	42	35	-
	Prawle Point ...	30·07	38	ENE	5	0	30·24	+·30	36	33	+1	ENE	7	cg	5	og	38	33	-
	Jersey (St. Aubin's)	30·06	42	ENE	4	c	30·20	+·35	35	34	−8	ENE	4	bc	3	m, c	43	34	-
	Hurst Castle ...	30·09	36	NNE	5	c	30·29	+·34	32	31	−4	NNE	4	b	2	c	38	31	-
	Dungeness ...	30·05	37	E	6	oph	30·25	+·35	34	33	−4	ESE	4	c	3	hp0	40	33	0·03
	North Foreland	30·10	38	NE	5	bc	30·23	+·34	37	35	−2	E	5	cgs	4	c, bcg	40	34	0·05
	London	30·13	36	NE	3	b	30·29	+·32	33	32	−2	ENE	1	ogm	*	bc, p, b	40	32	0·01
	Oxford	30·22	32	NE	1	b	30·33	+·32	32	30	−2	NE	1	bc	*	b	39	30	-
	Cambridge ...	30·17	33	N	1	b	30·35	+·32	27	26	−8	N	1	b	*	b	40	26	-
	Yarmouth ...	30·12	37	ENE	5	c	30·28	+·34	35	34	−2	NNE	3	bc	4	c	38	34	-
GERMANY & HOLLAND	Cuxhaven ...	30·08	25	NNE	3	b	30·23	+·34	28	22	−1	NNE	4	c	*	b	28	21	-
	Berlin	29·86	26	NW	3	f	30·01	+·31	20	19	−2	NW	4	bc	*	s	27	21	-
	Wiesbaden ...	*	*	*	*	*	30·11	+·35	22	21	−12	N	2	bc	*	*	34	21	0·04
	Munich ...	29·83	23	NE	3	0	29·92	+·25	17	17	−17	NW	4	s	*	3	34	14	0·32
	The Helder ...	30·19	31	NE	2	b	30·31	+·36	30	18	−1	NE	1	bc	1	b	34	28	-
FRANCE AND BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	30·23	+·36	18	18	−10	NE	3	bc	*	b	32	18	-
	Cape Gris Nez	30·01	33	ENE	3	0	30·18	+·32	27	27	−5	ENE	4	c	4	0	37	25	-
	Paris	29·95	34	NNE	4	0	30·13	+·37	24	22	−12	NNE	4	b	*	0	36	24	-
	Brest	?	41	ENE	4	0	?	?	34	32	−11	E	4	b	3	0	45	32	-
	Lorient	29·90	39	ENE	5	0	30·06	+·28	31	28	−14	ENE	6	b	3	0	46	30	-
	Rochefort ...	29·81	43	NW	3	f	29·90	+·12	28	28	−18	ENE	4	bc	*	0, f	50	25	-
	Belfort	?	34	E	3	S	?	?	23	22	−18	E	4	c	*	S	41	?	-
	Lyons	29·77	39	W	1	b	29·86	+·05	26	24	−13	N	4	0	*	b	44	26	-
	Nice	29·61	50	W	1	c	29·48	−·32	44	41	+3	E	1	0	2	c	?	41	-
	Perpignan ...	29·76	52	NW	3	0	29·65	−·13	48	44	+3	NW	4	c	*	0	57	43	-
	Biarritz	29·83	51	NNW	3	0	29·73	−·07	46	46	−4	ENE	3	0	2	0	54	45	0·20
PENINSULA.	Corunna	*	*	*	*	*													
	Lisbon	29·72	54	SW	3	0	29·61	−·23	51	31	+5	ESE	4	c	*	*0	57	46	0·35

For Explanation of Columns, see bottom of last page.

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

WEATHER CHARTS

for 8 a.m. on Wednesday, 11th Jany. 1893.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

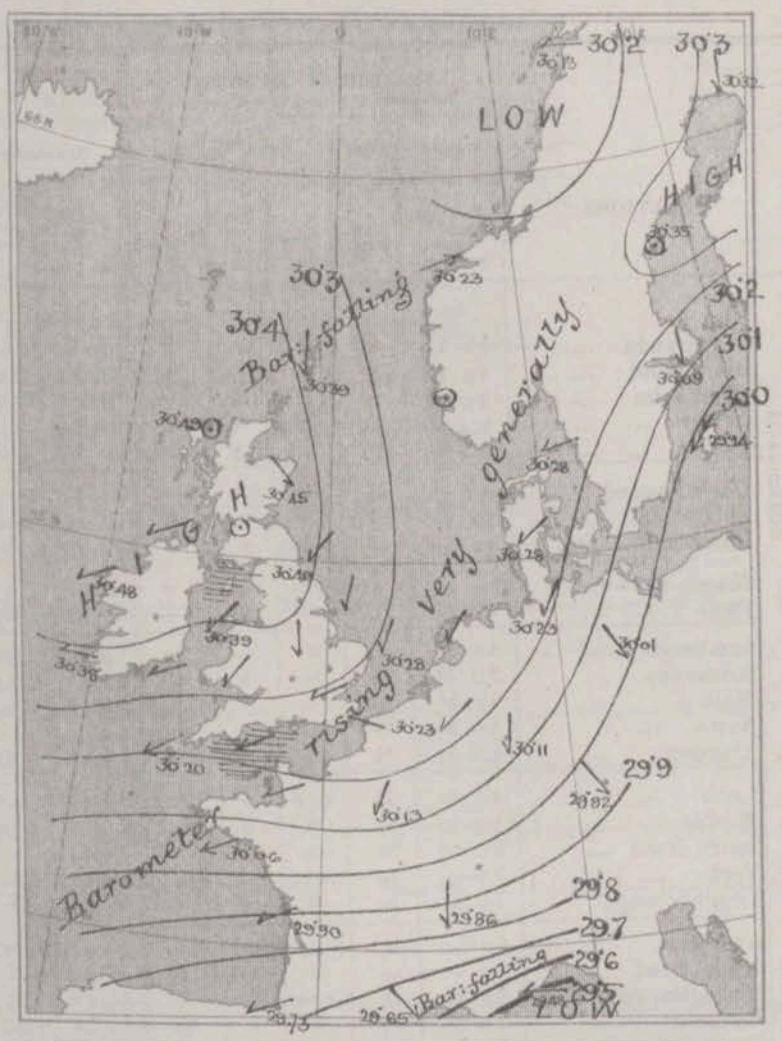
BAROMETER—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

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

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

SEA DISTURBANCE—Where considerable, is shewn thus:

= Rough. = High.



MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of January. During the 20 Years: 1871—1890.

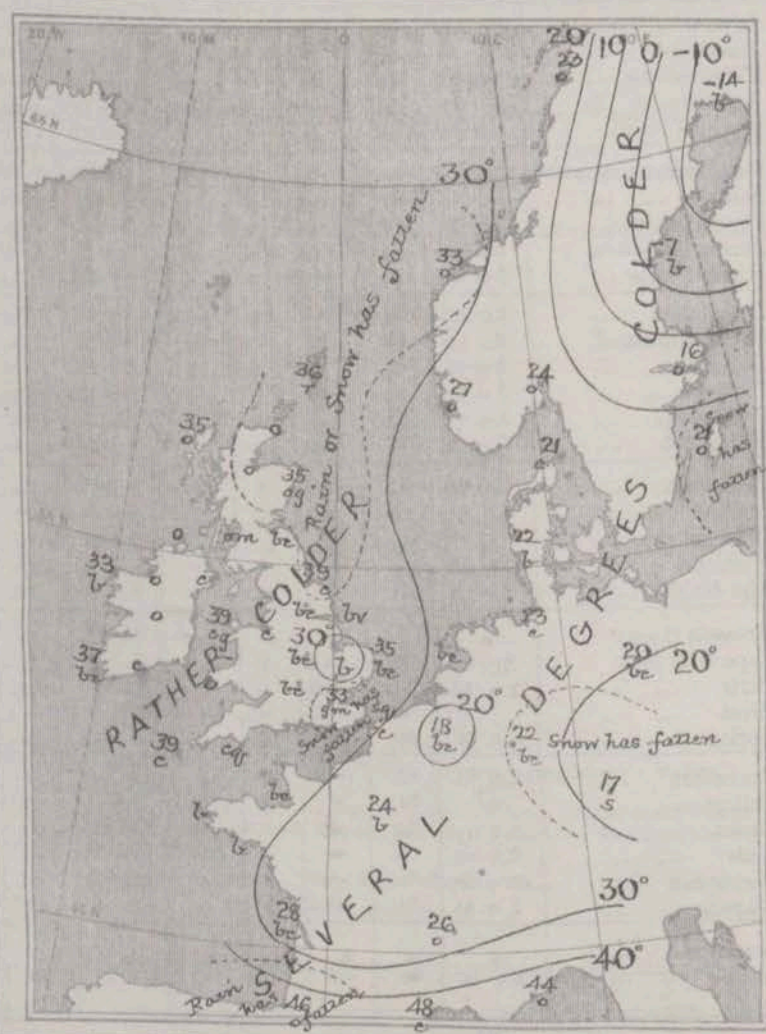
STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29·675
Stornoway	29·682
Wick	29·719
Nairn	29·745
Aberdeen	29·787
Leith	29·825
Shields	29·881
Spurn Head	29·926
York	29·932
Loughborough	29·967
Ardrossan	29·838
Mullaghmore	29·817
Donaghadee	29·856
Holyhead	29·902
Liverpool	29·924
Parsonstown	29·895
Valencia	29·887
Roche's Point	29·908
Pembroke	29·936
Scilly	29·969
Prawle Point	30·006
Jersey	30·022
Hurst Castle	30·002
Dover	30·012
LONDON	30·006
Oxford	29·999
Cambridge	29·993
Yarmouth	29·979

TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.



MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of January.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	as 8 a.m. Dry.	Wet.	RAINFALL. *(Inches.)*
Sumburgh Head	42·9	35·6	39·7	38·4	3·72
Stornoway	43·3	34·5	39·5	38·4	5·30
Wick	42·4	33·3	38·2	36·8	2·05
Nairn	42·2	32·9	37·2	35·6	1·99
Aberdeen	42·4	33·2	37·3	35·6	2·31
Leith	44·4	33·7	38·6	37·2	1·93
Shields	43·0	34·2	38·2	36·9	1·75
Spurn Head	41·7	34·5	37·7	36·7	1·35
York	42·7	32·5	36·7	35·7	1·87
Loughborough	43·0	34·3	36·4	35·4	2·04
Ardrossan	44·2	36·3	40·0	38·8	4·25
Mullaghmore	46·1	38·0	41·6	40·4	4·36
Donaghadee	44·4	36·1	40·0	39·2	2·98
Holyhead	45·6	38·7	41·7	40·3	3·38
Liverpool	43·5	35·2	38·6	37·0	2·22
Parsonstown	45·6	34·2	38·9	37·8	3·12
Valencia	49·5	40·4	44·5	43·3	6·69
Roche's Point	47·7	39·5	43·2	41·0	5·50
Pembroke	45·5	39·6	42·7	41·3	3·75
Scilly	48·8	42·9	46·4	44·9	3·73
Prawle Point	46·2	37·6	42·0	41·0	3·09
Jersey	45·8	38·3	41·8	40·4	3·21
Hurst Castle	45·0	36·3	40·3	39·5	2·94
Dover	43·5	35·8	39·2	38·1	2·58
LONDON	44·1	33·8	37·6	36·6	2·12
Oxford	43·1	33·6	37·1	36·1	2·26
Cambridge	43·3	31·7	36·2	35·4	1·54
Yarmouth	41·5	34·8	37·5	36·7	1·95

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·4 ins and upwards in an anticyclone lying over Ireland and the northern parts of Great Britain.
Lowest, 29·5 ins and less, over the Gulf of Genoa.
Gradients moderate over France and Germany, but slight elsewhere.
Barometer rising generally, but falling a little in the Shetlands and west of Norway, as well as in Spain and the south of France.

TEMPERATURE

Highest, 51° at Lisbon, 48° at Perpignan, 46° at Biarritz, 44° at Nice, 41° at Donaghadee, and 39° at Shields, Malin Hd, Holyhead and Scilly.
Lowest, −14° Fahr. at Haparanda, −7° at Hernösand, +16° at Stockholm, 17° at Munich, 18° at Brussels, and 20° at Berlin.
Frost occurred last night in nearly all parts of Gt Britain; at Loughborough the thermometer in the screen fell to 22°.

WIND

Light to fresh from the E.ly or NE.ly over England, Ireland, France, Denmark, and the Netherlands; strong to a gale from NE over the Baltic.
Light from the N.ly or NW.ly in the north and east of Scotland; fresh from WSW. at Christiansund; moderate from E. at Bodö.
Moderate from the N.ly or NW.ly at the German stations.

WEATHER

Fair over Western Europe generally, but dull in Scotland and Norway, as well as in the south of France, with rain in the Shetlands.
A little snow is reported at the North Foreland.
Showers of rain, hail, or snow have fallen at several of our northern, eastern and southeastern stations.

SEA

Moderate to smooth generally, but rather rough at Donaghadee and Pauillac.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone appears to be still spreading southwards but a shallow depression is now shown off the west of Norway, and this may possibly occasion snow at some of the northern and eastern stations.

FORECASTS

For the 24 hours ending at NOON on 12th JAN.y 1893.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH.	N.ly and NW.ly winds, light; cloudy, some snow showers.	6 SCOTLAND WEST	NE.ly winds, light; fair generally.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.	N.ly and NE.ly winds, light; fair generally but perhaps some snow showers.	8 ENGLAND S.W.	NE.ly winds, fresh or strong; fair generally.
3 ENGLAND EAST	Same as No 5	9 IRELAND NORTH	E.ly and NE.ly winds, fresh; fair generally.
4 MIDLAND COUNTIES	Same as No 2.	10 IRELAND SOUTH	
5 ENGLAND SOUTH	NE.ly winds, moderate inland, fresh on coasts; fair generally, but perhaps some snow showers. Colder.	WARNINGS	NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·21	31	28	N	3	b	2
Sumburgh Head	30·33	37	36	NE	2	o	3
Stornoway	30·33	39	37	SE	2	bc	3
Aberdeen	30·31	38	35	N	2	c	4
Shields	30·21	41	37	NE	4	o	4
Ardrossan	30·27	38	37	NE	2	o	1
Malin Head ...	30·25	41	38	ESE	4	c	2
Mullaghmore ...	30·22	40	38	ENE	5	c	3
Belmullet	30·20	39	37	ESE	3	bc	*
Holyhead	30·17	40	39	ENE	3	b	2

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30·11	45	42	E	3	ovm	3
Scilly	30·00	42	40	ENE	4	c	3
Jersey	29·94	40	37	NE	5	o	4
Hurst Castle ...	30·03	38	37	NE	5	c	3
Dungeness... ...	29·97	39	38	ENE	5	op	4
North Foreland...	29·99	38	34	NE	5	c	5
London	30·05	41	39	NNE	2	bc	*
Yarmouth	30·05	38	36	ENE	5	c	4
Rochefort	29·81	46	46	E	0	o	*

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

Weather in morning rather showery at our southeastern stations, but fair as a whole over the United Kingdom generally, and over the greater part of Scandinavia and Denmark; dull and unsettled over the Continent, with rain in several places, as well as at Alpiers. Some cold showers later in Scotland and the east of England, rain and snow in South Germany, rain in the south of France and at Lisbon.

Temperature inclined to fall again over the British Isles and northwestern Europe, as well as over Central Russia, but risen decidedly over Central Europe. Morning readings below 50° except at some stations in the southeast of France and on the Algerian coast, below 40° over the inland parts of France and the British Isles, below 20° over Austria, Eastern Germany, and Finland, and below Zero F. over Russia. Lowest of all −17° F. at Moscow, −13° at Hermanstadt, −6° at Kharkov and Kiev, −2° at Archangel, and 0 Zero at Riga. Rising to 39° or more over nearly the whole of our Islands later, and touching 57° at Perpignan and Lisbon.

Wind N. over Scandinavia, the Baltic, and the eastern shores of the North Sea, NE. to E. over the British Islands, and moderate in force generally. Light S. over Hungary, Poland, the Baltic Provinces, and the Gulf of Finland, very variable elsewhere. Drawing into SE. on our northwestern coasts later, little change elsewhere.

Barometer highest, 30·3 in. and more to 30·0 in. over Central Russia, and 30·2 in. and more to 30·0 in. over Norway and the greater part of the British Islands. Exceeding 29·9 in. over Morocco and the south of Spain. Lowest, 29·7 in. to 29·6 in. and less, in a depression over North Germany and the Baltic, and below 29·8 in. over the Mediterranean. Rising over the United Kingdom and Western Europe all 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 made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. 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 12TH JANUARY. 1893

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. Reading at 32° F. and Sea Level.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	THIS MORNING. (See note at bottom of last page.) Barometer. Reading at 32° F. and Sea Level.	Change since Yesterday Morn.	Shade Temp. Dry Bulb.	Shade Temp. Wet Bulb.	Change in dry since Yesterday.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	Sea (0 to 9).	PAST 24 HOURS. Weather.	Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
		Ins.	°				Ins.		°	°	°							°	Ins.
SCANDINAVIA	Haparanda ...	30·60	−21	2	0	b	30·24	+02	−21	−21	−7	N	2	b	*	b	3	−22	—
	Hernösand ...	30·24	−12	2	0	b	30·31	−04	−14	−14	−7	2	0	b	*	b	9	−15	—
	Stockholm ...	30·08	14	N	6	0	30·12	+03	12	11	−4	NNW	4	0	*	0	21	12	—
	Wisby	29·97	23	NE	8	8	30·00	+06	19	17	−2	NE	4	8	*	8	23	18	0·04
	Bodö	30·07	25	E	4	c	30·09	−04	23	21	0	E	4	0	2	c	25	19	—
	Christiansund...	30·13	36	WSW	2	0	30·08	−15	37	35	+4	WSW	3	0	4	0	37	2	0·12
	Skudesnaes ...	30·21	30	2	0	b	30·19	−07	31	29	+4	E	4	0	2	b, c, b	27	27	—
	Christiania Fjord (Færder)	30·28	24	ESE	1	0	30·26	−03	19	15	−5	E	3	0	1	0	25	18	—
	Skagen (The Scaw)	30·23	20	E	2	0	30·24	−04	19	18	−2	ESE	1	0	0	0	21	18	—
	Fanö	30·22	17	Z	0	b	30·25	−03	20	19	−2	N	1	c	*	b	27	16	—
BRITISH ISLANDS	Sumburgh Head	30·25	30	N	8	bc	30·19	−20	38	38	+2	N	2	0	3	c, bc	41	35	0·05
	Stornoway ...	30·44	37	Z	0	f	30·34	−15	37	36	+2	W	2	c	3	0, f	38	32	—
	Wick	30·34	38	N	2	0	30·24	−18	38	37	+4	N	2	0	2	0	38	33	0·12
	Nairn	30·42	35	NNW	2	c	30·30	−17	37	36	+2	WSW	1	0	1	c	37	33	0·06
	Aberdeen ...	30·37	35	WNW	3	c, q	30·26	−15	36	35	+1	NW	4	0, q, f	4	d, q, c	36	35	0·07
	Leith	30·30	31	W	2	m	30·31	−13	34	32	−3	SSW	2	bem	*	m	39	28	—
	Shields	30·34	37	NNW	3	0, f	30·33	−17	38	37	−1	NW	2	0, f	4	7, 0, 0, f	39	34	0·06
	Spurn Head ...	30·24	37	NW	3	bc	30·17	−17	35	35	+1	WNW	1	b	3	bc, f	37	33	0·09
	York	30·32	36	NNW	3	0	30·23	−16	35	34	+2	NNW	2	c	*	0	40	33	0·04
	Loughborough	30·32	35	NW	2	0	30·24	−12	35	34	+5	NNW	2	fm	*	0	37	26	0·02
	Ardrossan ...	30·40	37	NW	2	b	30·31	−17	39	38	−9	Z	0	bcf	0	b	41	25	—
	Malin Head ...	30·46	41	NNW	3	0	30·37	−10	40	37	+1	N	4	bf	2	0	41	37	—
	Mullaghmore ...	30·40	37	NNE	4	0	30·40	−05	40	38	+2	NNE	3	0, f	2	0	40	35	—
	Belmullet ...	30·56	36	ENE	2	b	30·48	00	39	38	+6	NE	2	0	*	b	41	32	0·02
	Donaghadee ...	30·44	37	NE	4	bc	30·36	−09	39	33	−8	NW	4	b	2	bc	41	31	—
	Liverpool (Bidston)	30·38	36	N	1	0	30·29	−13	35	34	+1	NNW	2	c	2	0	39	32	—
	Holyhead ...	30·37	40	NE	4	bc	30·30	−09	40	37	+1	NNE	4	0, q	3	bc	41	37	—
	Parsonstown ...	30·43	36	Z	0	b	30·38	−05	34	33	−1	Z	0	f	*	b, d	40	28	—
	Valencia	30·43	36	E	1	bc	30·42	+04	37	34	0	ENE	2	bcr	2	c, m, bc	40	33	0·01
	Roche's Point	30·40	37	ENE	3	c	30·38	+03	37	37	−1	NE	3	0	3	c	40	33	—
	Pembroke (St. Ann's Hd.)	30·35	35	NE	3	b	30·29	−05	34	33	−2	NNE	2	b	1	b	38	33	—
	Scilly	30·25	39	ENE	5	b	30·21	+01	42	38	+3	NNE	5	bc	3	c, b	42	33	—
	Prawle Point ...	30·29	35	ENE	5	c	30·22	−02	35	34	−1	NE	2	0	1	c	39	31	—
	Jersey (St. Aubin's)	30·24	37	E	4	b	30·15	−05	39	37	+4	N	3	0, m, q	3	b	39	34	0·01
	Hurst Castle ...	30·29	32	ENE	4	b	30·18	−11	36	35	+4	NNE	4	c, m	1	bc, b	36	31	—
	Dungeness ...	30·22	34	N	2	c	30·17	−08	38	32	−1	NE	3	0	3	c, f, b	37	30	0·05
	North Foreland	30·22	36	NE	2	b	30·16	−07	34	33	−3	NE	3	0	3	c, b, q	37	32	0·07
	London	30·28	36	NNE	2	c	30·19	−10	35	35	+2	NE	1	0, m, q	*	c, d, bc	38	33	0·02
	Oxford	30·29	35	NE	1	0	30·23	−10	34	33	+2	N	1	0, f, q	*	bc, 0	37	31	0·01
	Cambridge ...	30·27	34	N	1	0	30·21	−14	34	34	+7	N	1	0	*	0	38	25	—
	Yarmouth ...	30·20	35	NW	4	0, r, q, f	30·15	−13	35	34	0	NE	1	f	4	bc, 0	38	33	0·04
GERMANY & HOLLAND	Cuxhaven ...	30·22	23	NNE	3	bc	30·23	00	21	19	−2	NNE	2	b	*	bc	24	17	—
	Berlin	30·06	13	NW	3	b	30·12	+11	6	6	−14	NW	3	b	*	b	20	5	—
	Wiesbaden ...	*	*	*	*	*	30·15	+04	15	14	−7	N	2	0	*	*	?	12	—
	Munich ...	29·95	12	2	0	8	29·97	+05	1	1	−16	NW	4	bc	*	8	19	1	0·04
	The Helder ...	30·20	28	8	1	0	30·28	−03	22	21	−8	ESE	1	b	1	0	32	21	—
FRANCE AND BELGIUM	Brussels (9 a.m.)	*	*	*	*	*	30·19	−04	16	16	−2	ENE	1	b	*	c	29	16	—
	Cape Gris Nez	30·16	31	ENE	1	8	30·12	−06	29	29	+2	ESE	1	c	1	8	32	?	—
	Paris	30·15	37	NNE	3	b	30·13	00	21	20	−3	NE	2	b	*	b	30	20	—
	Brest	?	34	ENE	5	b	?	?	37	37	+3	E	2	0	2	b	46	32	—
	Lorient	30·11	34	ENE	7	b	30·12	+06	33	32	+2	NE	3	0	2	b	37	30	—
FRANCE AND	Rochefort ...	29·95	29	ENE	6	b	29·99	+09	23	22	−5	NE	6	b	*	b	29	21	—
	Belfort	?	17	NE	4	b	?	?	14	13	−9	NE	4	b	*	b	25	10	—
	Lyons	29·89	23	N	5	b	29·98	+12	14	12	−12	N	4	c, 8	*	b	29	13	—
	Nice																		
	Perpignan ...	29·65	41	NW	4	bc	29·73	+08	31	29	−17	NW	4	b	*	bc	35	30	—
	Biarritz	29·80	34	E	3	0	29·90	+17	23	21	−23	ENE	4	b	3	0	46	19	—
PENINSULA	Corunna	*	*	*	*	*										*			
	Lisbon	29·44	51	ENE	4	0	29·50	−11	49	47	−2	NE	5	0	*		54	48	0·29

For Explanation of Columns, see bottom of last page.

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

WEATHER CHARTS

for 8 a.m. on Thursday, 12th Jan: 1893.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

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

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

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

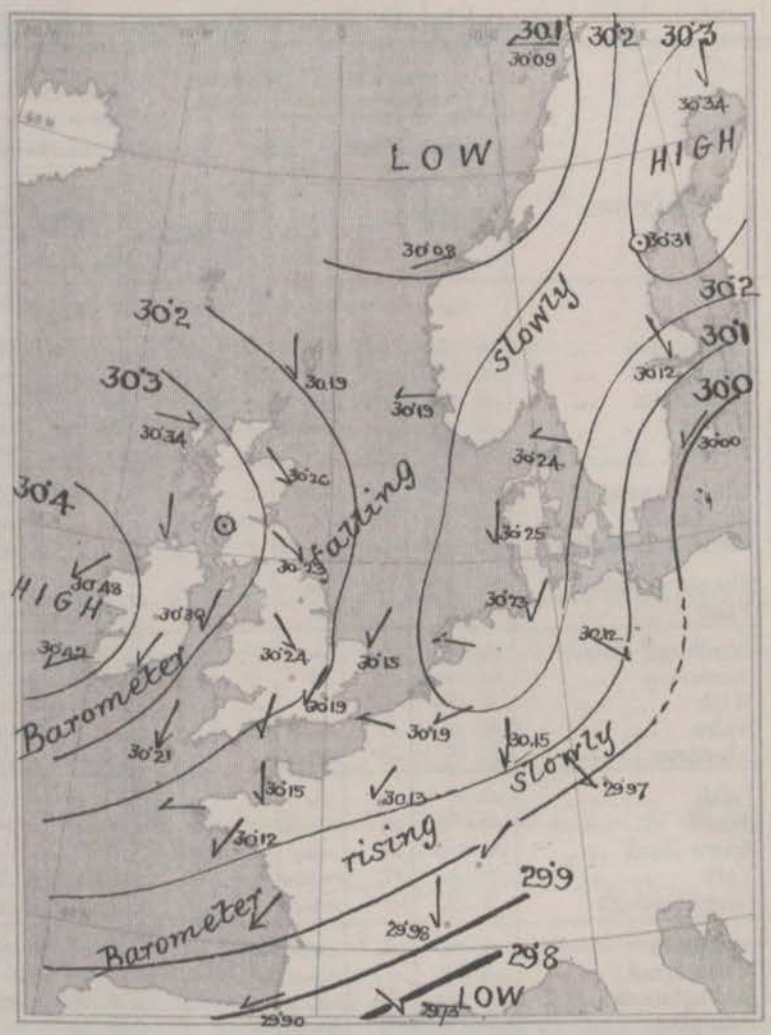
SEA DISTURBANCE—Where considerable, is shewn thus:

= Rough. = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of January. During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29·875
Stornoway	29·882
Wick	29·719
Nairn	29·743
Aberdeen	29·787
Leith	29·825
Shields	29·881
Spurn Head	29·926
York	29·932
Loughborough	29·967
Ardrossan	29·838
Mullaghmore	29·817
Donaghadee	29·853
Holyhead	29·902
Liverpool	29·924
Parsonstown	29·895
Valencia	29·887
Roche's Point	29·908
Pembroke	29·936
Scilly	29·969
Prawle Point	30·006
Jersey	30·042
Hurst Castle	30·002
Dover	30·012
LONDON	30·006
Oxford	29·999
Cambridge	29·993
Yarmouth	29·979



TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shown by Letters of the Beaufort Scale.

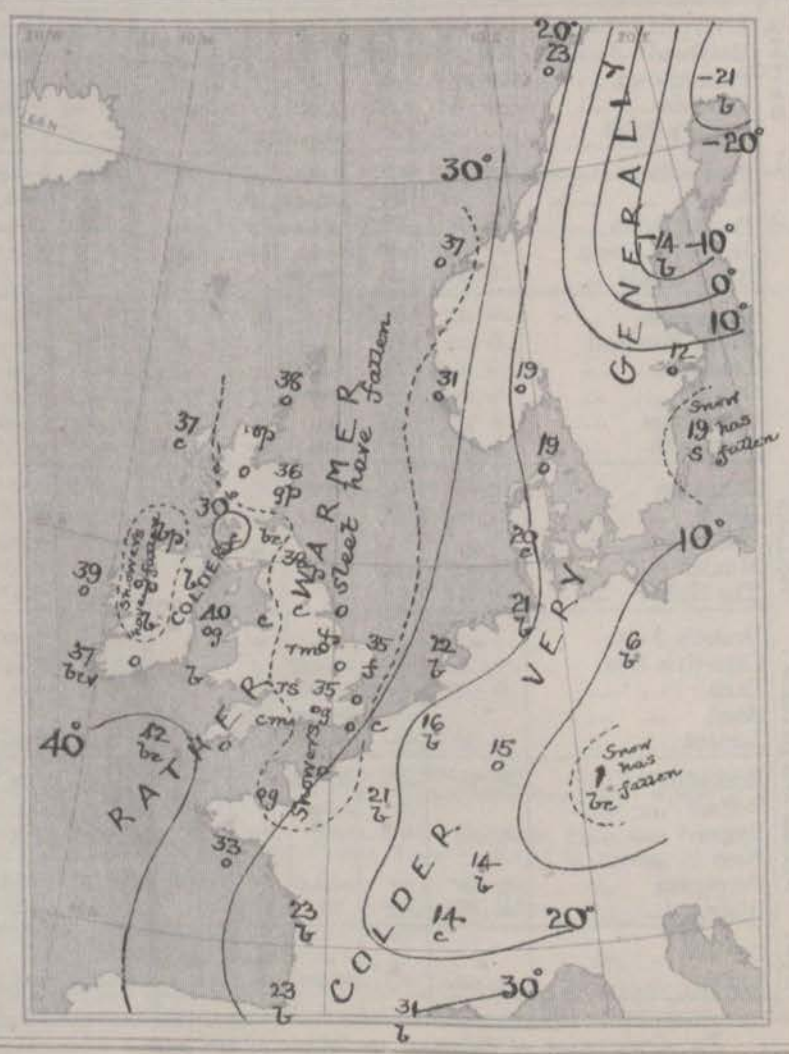
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of January.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	RAINFALL. (Inches.)
Sumburgh Head	42·9	35·6	39·7	38·4	3·72
Stornoway	45·3	34·5	39·5	38·4	5·30
Wick	42·4	33·3	38·2	36·8	2·05
Nairn	42·2	32·9	37·2	35·6	1·99
Aberdeen	42·4	33·2	37·3	35·6	2·31
Leith	44·4	33·7	38·6	37·2	1·93
Shields	43·0	34·2	38·2	36·9	1·75
Spurn Head	41·7	34·5	37·7	36·7	1·35
York	42·7	32·5	36·7	35·7	1·87
Loughborough	43·0	32·3	39·4	35·4	2·04
Ardrossan	44·2	36·3	40·0	38·8	4·25
Mullaghmore	46·1	38·0	41·6	40·4	4·36
Donaghadee	44·4	38·1	40·0	39·2	2·98
Holyhead	45·6	38·7	41·7	40·3	3·38
Liverpool	43·5	35·2	38·6	37·0	2·32
Parsonstown	45·6	34·2	38·0	37·8	3·12
Valencia	49·5	40·4	44·5	43·3	6·69
Roche's Point	47·7	39·5	43·2	41·9	5·50
Pembroke	45·5	39·6	42·7	41·3	3·75
Scilly	48·8	42·9	46·4	44·9	3·73
Prawle Point	46·2	37·6	42·0	41·0	3·09
Jersey	45·8	38·3	41·8	40·4	3·21
Hurst Castle	43·0	36·3	40·3	39·3	2·94
Dover	43·5	35·8	39·2	38·1	2·58
LONDON	44·1	33·8	37·6	36·6	2·12
Oxford	43·1	33·6	37·1	36·1	2·26
Cambridge	43·3	31·7	36·2	35·4	1·54
Yarmouth	41·5	34·8	37·5	36·7	1·95

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, (1) 30·4 ins. and more to 30·2 ins. over Ireland, Scotland, and the western and northern parts of England; (2) 30·3 ins. and more to 30·2 ins. over the Gulf of Bothnia, Sweden, and the eastern parts of the North Sea.
Lowest, (1) about 30·0 ins. off the northwest of Norway; (2) 29·5 ins. and less over the southern parts of Spain and Portugal.
Gradients moderate over Spain and also over the Baltic, slight and irregular elsewhere.
Barometer falling over our Islands and Scandinavia, rising over France and Spain.

TEMPERATURE

Highest, 49° at Fishbourne, 42° at Scilly, and 40° at Mullaghmore.
Lowest −21° F. at Haparanda, −14° at Hernosand, +1° at Munich, 6° at Berlin, 14° at Lyons, 16° at Brussels, and 21° at Paris.
It has fallen rapidly over the Continent, but changed little and irregularly elsewhere.

WIND

Light to moderate over our Islands, chiefly N. to NE., but NW. in Scotland, SE. on the coast of Kent.
Over the Bay of Biscay it is NE., moderate to fresh; over Germany, NW., moderate; and over Scandinavia, light and variable.

WEATHER

Fine and bright in Ireland, as well as at many of the Continental stations, slight or smooth elsewhere.
Sleet is falling at Wisby, however, cold rain showers in the east of Scotland, and a little sleet has fallen over our eastern and southeastern counties during the day.

SEA

Moderate on our northeast and east coasts, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

No important change is indicated.

FORECASTS

For the 24 hours ending at NOON on 13th JANUARY, 1893.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	NW. and W. winds; cloudy, showery, unsettled.
2 ENGLAND N.E. 3 ENGLAND EAST 4 MIDLAND COUNTIES	N. and NW. breezes, light; changeable, some cold showers.
5 ENGLAND SOUTH	Varying E. winds, light; dull, some cold showers.
6 SCOTLAND WEST 7 ENGLAND N.W.	NW. winds, moderate; some showers.
8 ENGLAND S.W.	NE. winds, moderate or light; fine.
9 IRELAND NORTH 10 IRELAND SOUTH	N. breezes, 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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·28	51	50	ENE	1	bc	1
Sumburgh Head	30·30	49	48	N	8	c	3
Stornoway	30·38	48	48	NNW	3	o	3
Aberdeen	30·41	46	44	NW	4	cq	4
Shields	30·39	49	48	N	8	o	4
Ardrossan	30·45	41	39	NW	8	b	1
Malin Head ...	30·50	40	39	N	2	o	0
Mullaghmore ...	30·49	40	39	NE	8	o	2
Belmullet	30·54	40	39	ENE	2	b	*
Holyhead	30·42	40	38	ENE	3	bc	2
Valencia	30·42	40	36	E	1	cm	1
Scilly	30·26	40	35	ENE	6	c	3
Jersey	30·23	39	31	ENE	6	b	5
Hurst Castle ...	30·31	36	35	NE	3	bc	2
Dungeness... ...	30·25	39	38	E	2	c	1
North Foreland...	30·26	44	38	NE	3	cqr	3
London	30·30	38	35	NNE	2	bcm	*
Yarmouth	30·29	38	36	NNW	3	bc	4
Rochefort	29·92	44	38	ENE	6	b	*

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

Weather fair over Western Europe generally, but dull in Scotland and Norway, with rain in the Shetlands. Dull over the eastern, central, and southern countries, with snow at most of the Russian stations, as well as at Munich. Rain falling at Tunis and Malta. A little rain or snow occurring during day in most parts of Gt Britain.

Temperature fallen quickly in France and also in Sweden and Northern Russia; risen considerably over Austria and the south of Russia, changed irregularly elsewhere. Morning readings 58° at San Fernando and Malta, 54° at Algiers and La Calle, and 52° at Cagliari, Nemours, and Oran; reaching 50° on the Portuguese coast and 46° at Biarritz. Lowest −14° Fah^t at Haparanda, −9° at Ulleaborg, −8° at Moscow, and −7° at Hernösand; below 10° in all but the southern parts of Russia, below 20° in Austria, South Germany, and Belgium, and below the freezing point over Central England. Rising during day to between 38° and 41° in most parts of the United Kingdom, exceeding 50° in the south of France and also at Lisbon, but remaining considerably below the freezing point over Germany, Belgium, and some parts of Central France.

Wind light to fresh from the E^ly or NE^ly over England, Ireland, France, Denmark, and the Netherlands; strong from NE. over the Baltic, with a gale at Wisby. Light from N. or NW. in Scotland, fresh from WSW. at Christiansund, moderate from E. at Bodö; NW^ly or W^ly over Germany and Austria; S^ly in the south of Russia; E^ly in Italy, NW^ly in the south of France and also in Tunis; S^ly in Algeria. Subsequently backing to NW. in the east of England, no important change occurring elsewhere.

Barometer highest 30·3 ins. to 30·5 ins. in an anticyclone covering the greater part of our Islands and the North Sea, 30·3 ins. and upwards in another system over the north of Sweden. Lowest 29·5 ins. and less, in two depressions, one lying over Western Russia, the other over the Gulf of Genoa, 29·6 ins. and less, in two other systems lying respectively to the southward of Italy and to the southwestward of Lisbon. Slight fall taking place over our Islands during day, as a shallow depression off the west of Norway spread southwards.

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 made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. The time at each Station is the Standard Time of its Country.

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DAILY WEATHER REPORT

for 8a.m. on FRIDAY 13TH JANUARY. **1893**

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. Reading at 32° F. and Sea Level.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	THIS MORNING. (See note at bottom of last page.) Barometer. Reading at 32° F. and Sea Level.	Barometer. Change since Yesterday Morn.	Shade Temp. Dry Bulb.	Shade Temp. Wet Bulb.	Shade Temp. Change in dry since Yesterday.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	Sea (0 to 9).	PAST 24 HOURS. Weather.	Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
		Ins.	°				Ins.		°	°	°							°	Ins.
SCANDINAVIA.	Haparanda ...	30.22	-25	N	2	b	30.08	-26	-26	-29	-5	N	2	b	*	b	-20	*	—
	Hernösand ...	30.18	1	2	0	b	30.05	-26	-18	-18	-4	Z	0	bc	*	b	*	-18	—
	Stockholm ...	30.04	10	NW	4	0	29.88	-24	9	8	-3	NNW	2	0	*	0	16	9	—
	Wisby	29.95	19	NNE	8	c	29.81	-19	19	17	0	N	6	0	*	c	21	14	0.04
	Bodö	29.84	19	E	8	b	29.65	-44	13	10	-10	E	7	b	4	b	23	9	—
	Christiansund...	29.79	33	SW	4	r	29.56	-58	36	35	-1	SW	5	r	4	r	33	34	0.35
	Skudesnaes ...	29.97	34	SE	2	8	29.67	-32	33	32	+2	NW	2	0	2	0,8	34	30	—
	Christiania Fjord (Færder)	30.06	21	SSE	5	8	29.77	-49	19	19	0	E	5	8	2	8	21	19	—
	Skagen (The Scaw)	29.99	20	SSE	3	8	29.78	-46	19	18	0	SE	4	0	2	8	21	18	0.12
	Fanö	30.03	31	WSW	4	c	29.69	-56	31	30	+11	WNW	4	c	*	c	32	19	0.08
BRITISH ISLANDS	Sumburgh Head	30.03	40	NNW	2	0	29.88	-36	37	34	-1	N	4	0	4	c,0	41	36	0.11
	Stornoway ...	30.24	41	2	0	0	30.06	-28	40	40	+3	NW	3	0	4	c,0	47	35	0.12
	Wick	30.11	36	NW	2	0	29.92	-32	36	35	-2	NW	2	bc	1	0	41	34	0.10
	Nairn	30.19	39	2	0	0	30.00	-30	42	41	+5	NW	1	r	1	0	42	34	0.04
	Aberdeen ...	30.16	38	NW	8	c	29.95	-31	39	37	+3	NW	8	bc	3	f,c,f	41	36	0.06
	Leith	30.23	33	SW	1	m	30.02	-29	38	36	+4	W	2	b	*	m	40	32	—
	Shields	30.20	39	NNW	2	0	29.98	-25	35	33	-3	W	8	c	3	r,0	39	33	0.08
	Spurn Head ...	30.13	35	WNW	8	0 f	29.98	-19	35	34	0	WNW	4	c	3	0 f,f	37	34	0.03
	York	30.20	37	N	1	0	30.08	-20	34	33	-1	WNW	1	bc	*	0	39	32	—
	Loughborough	30.22	36	WNW	1	0	30.08	-16	35	34	0	WNW	3	m	*	0	37	34	0.04
	Ardrossan ...	30.25	36	2	0	bw	30.08	-23	42	42	+13	W	1	c	0	b,bw	42	37	—
	Malin Head ...	30.23	42	N	4	bedf	30.19	-18	45	44	+5	NNW	4	of	2	b,bedf	45	40	0.02
	Mullaghmore ...	30.36	41	NW	4	b	30.26	-14	44	43	+4	NW	4	ogf	3	c,b	44	38	0.02
	Belmullet ...	30.40	42	NE	2	0	30.30	-18	42	41	+3	SE	3	r	*	0	44	38	0.09
	Donaghadee ...	30.27	42	N	8	c	30.14	-22	42	41	+9	NNW	3	b	2	c	43	33	0.02
	Liverpool (Bidston)	30.27	37	NNW	1	0	30.13	-16	36	35	+1	WNW	1	b	1	0	37	35	0.01
	Holyhead ...	30.28	41	N	1	0	30.15	-15	43	42	+3	NNW	4	ogq	4	c,0	43	40	0.06
	Parsonstown ...	30.36	37	2	0	0	30.25	-09	37	36	+3	Z	0	og	*	0	39	33	—
	Valencia	30.35	37	NE	3	c	30.23	-05	37	36	0	Z	0	fm	1	c	41	34	—
	Roche's Point	30.35	38	NE	8	c	30.25	-09	40	37	+3	NNW	3	0	3	c	40	35	—
	Pembroke (St. Ann's Hd.)	30.26	38	NE	2	bc	30.19	-10	42	39	+8	NNW	2	og	2	bc	42	34	0.02
	Scilly	30.21	42	NE	4	bc	30.21	0.0	43	40	+1	NNW	4	c	3	bc	43	37	—
	Prawle Point ...	30.26	37	NE	8	c	30.21	-01	36	34	+1	NNW	2	0	1	c	40	34	—
	Jersey (St. Aubin's)	30.22	36	ENE	3	b	30.18	+03	41	40	+2	NW	3	omg	3	bc,b	41	32	—
	Hurst Castle ...	30.23	35	NNE	3	cm	30.15	-03	36	34	0	WNW	8	cf	1	c,0m	38	34	—
	Dungeness ...	30.19	33	SSE	1	0	30.05	-12	35	34	+2	NNW	2	m	1	0,f	35	32	0.05
	North Foreland	30.20	32	SSE	2	0	30.04	-12	35	34	+1	W	3	m	3	0,8	35	30	0.04
	London	30.22	35	NNE	1	m	30.09	-10	35	33	0	WNW	2	omg	*	c,odm	36	33	0.02
	Oxford	30.23	35	N	1	0	30.12	-11	35	33	+1	NW	1	o	*	o,8d,f	35	34	0.02
	Cambridge ...	30.20	34	N	1	r	30.06	-15	35	34	+1	NW	1	o	*	r	38	32	0.07
	Yarmouth ...	30.18	33	SSW	2	c	29.98	-17	35	34	0	NW	4	cf	3	o8r,c	36	30	0.06
GERMANY & HOLLAND	Cuxhaven ...	29.95	24	WNW	2	0	29.80	-43	24	23	+3	SW	6	8	*	0	24	21	—
	Berlin	30.13	18	NW	2	b	29.99	-13	13	13	+7	SW	2	0	*	b	14	6	—
	Wiesbaden ...						30.13	-02	9	9	-6	N	1	0	*	*	*	5	—
	Munich ...	30.06	-2	SW	3	b	30.01	+04	-3	-3	-4	SW	1	c	*	b	5	-4	—
	The Helder ...	30.26	30	8	1	b	29.90	-38	24	23	+12	W	4	0	3	b	35	*	—
FRANCE AND BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	30.07	-12	18	16	+2	SW	4	8	*	b	22	10	—
	Cape Gris Nez	30.15	28	2	0	m	30.02	-10	35	35	+6	W	1	8	1	m	39	25	—
	Paris	30.21	19	NE	2	b	30.18	+05	16	15	-5	SW	1	0	*	b	25	12	—
	Brest	*	39	ENE	2	0	*	*	37	36	0	N	1	0	3	0	43	32	—
	Lorient	30.15	34	ENE	4	b	30.23	+11	32	28	-1	N	2	0	2	b	41	28	—
	Rochefort ...	30.06	37	ENE	4	b	30.13	+14	19	17	-4	ENE	4	b	*	b	36	16	—
	Belfort	*	4	NE	4	b	*	*	6	5	-8	NE	4	b	*	b	19	1	—
	Lyons	*	17	N	8	b	30.18	+20	9	8	-5	N	1	b	*	b	21	8	—
	Nice	29.69	33	E	1	0	29.84		32	29		SW	1	0	3	0	39	30	0.08
	Perpignan ...	29.86	31	NW	3	b	29.98	+25	31	25	0	NW	8	b	*	b	39	28	—
	Biarritz	29.95	37	2	0	b	30.13	+23	20	20	-3	E	2	b	1	b	32	18	—
PENINSULA.	Corunna... ...	*	*	*	*	*													
	Lisbon	29.75	46	NE	3	b	29.92	+42	40	38	-9	NNE	4	b	*	b	52	39	—

For Explanation of Columns, see bottom of last page.

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

WEATHER CHARTS

for 8 a.m. on Friday, 13th Jan: 1893.

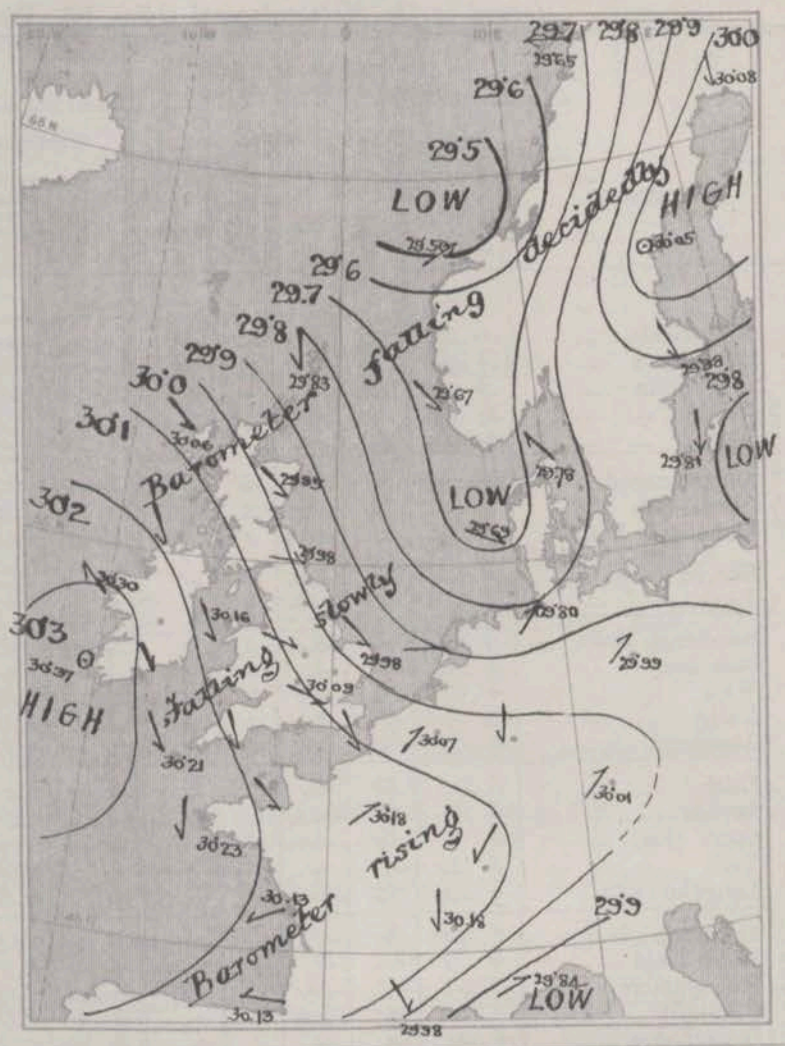
BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

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

WIND—Arrows shew the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus—
= forces above 10; = forces 8 to 10;
= forces 5 to 7; = forces 1 to 4.
⊙ = dead calm.

SEA DISTURBANCE—Where considerable, is shewn thus:
= Rough. = High.



MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of January.
During the 20 Years: 1871—1890.

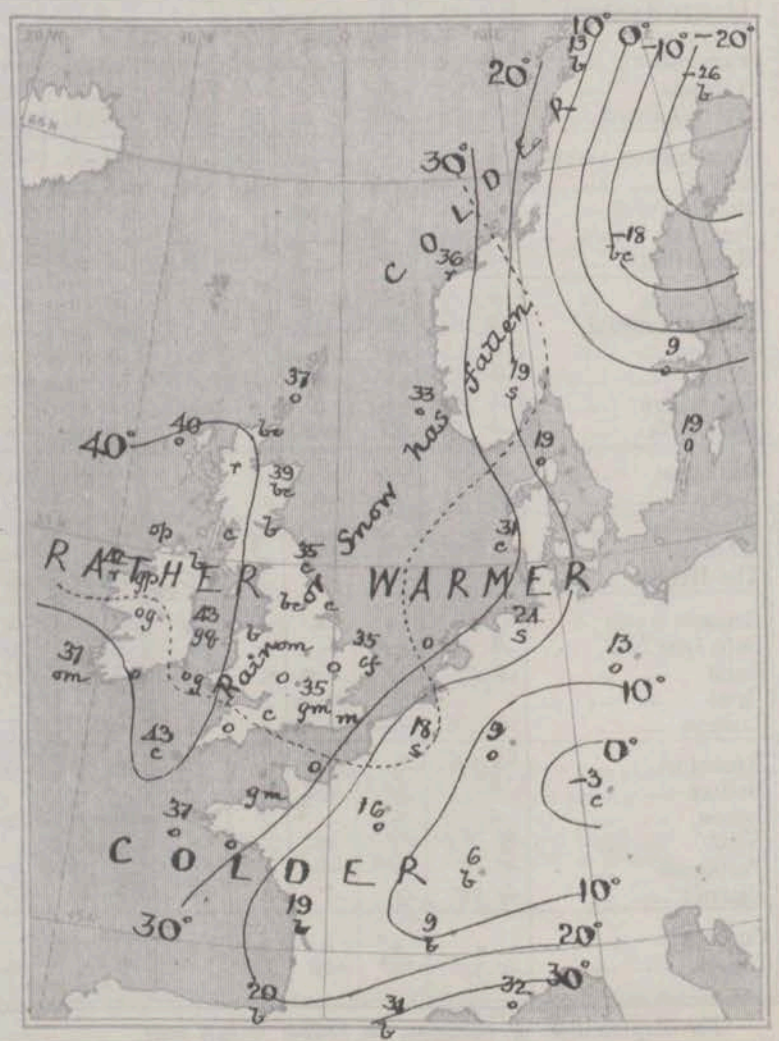
STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29·675
Stornoway	29·682
Wick	29·719
Nairn	29·745
Aberdeen	29·787
Leith	29·825
Shields	29·881
Spurn Head	29·926
York	29·932
Loughborough	29·967
Ardrossan	29·838
Mullaghmore	29·817
Donaghadee	29·856
Holyhead	29·902
Liverpool	29·924
Parsonstown	29·895
Valencia	29·887
Roche's Point	29·908
Pembroke	29·936
Scilly	29·969
Prawle Point	30·006
Jersey	30·042
Hurst Castle	30·002
Dover	30·012
LONDON	30·006
Oxford	29·999
Cambridge	29·993
Yarmouth	29·979

TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.



MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of January.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	RAINFALL. (Inches.)
Sumburgh Head	42·9	35·6	39·7	38·4	3·72
Stornoway	43·3	34·5	39·5	38·4	5·30
Wick	42·4	33·3	38·2	36·8	2·05
Nairn	42·2	32·9	37·2	35·6	1·99
Aberdeen	42·4	33·2	37·3	35·6	2·31
Leith	44·4	33·7	38·6	37·2	1·93
Shields	43·0	34·2	38·2	36·9	1·75
Spurn Head	41·7	34·5	37·7	36·7	1·35
York	42·7	32·5	36·7	35·7	1·87
Loughborough	43·9	32·3	36·4	35·4	2·04
Ardrossan	44·2	36·3	40·0	38·8	4·25
Mullaghmore	46·1	38·0	41·6	40·4	4·36
Donaghadee	44·4	36·1	40·9	39·2	2·98
Holyhead	45·6	38·7	41·7	40·3	3·38
Liverpool	43·5	35·2	38·6	37·0	2·22
Parsonstown	45·6	34·2	38·9	37·8	3·12
Valencia	49·5	40·4	44·5	43·3	6·69
Roche's Point	47·7	39·5	43·2	41·9	3·50
Pembroke	45·5	39·6	42·7	41·3	3·75
Scilly	48·8	42·9	44·4	44·9	3·73
Prawle Point	46·2	37·6	42·9	41·0	3·09
Jersey	45·8	38·5	41·8	40·4	3·21
Hurst Castle	45·0	36·3	40·3	39·5	2·94
Dover	43·5	35·8	39·2	38·1	2·58
LONDON	44·1	34·8	37·6	36·6	2·12
Oxford	43·1	33·6	37·1	36·1	2·26
Cambridge	43·3	31·7	36·2	35·4	1·54
Yarmouth	41·5	34·8	37·5	36·7	1·95

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, (1) 30·3 in: and more to 30·0 in: over Ireland, Great Britain, France, and the Bay of Biscay; (2) 30·0 in: and more to 29·9 in: over the Gulf of Bothnia and Finland.

Lowest, 29·5 in: and less, in a depression off the northwest of Norway, and 29·7 in: and less, on the west coast of Denmark; 29·8 in: at Nice.

Gradients slight over France, moderate over Great Britain, steep over the northern half of Scandinavia.

Barometer falling except in the extreme south and southwest of France and over Spain, but the change is not rapid; at Valencia the column is unsteady.

TEMPERATURE

Highest, 42° to 45° in the west of Ireland, 43° at Scilly, 40° at Rothesay and Lerwick.

Lowest, (1) −26° at Haparanda, −18° at Hernösand, +9° at Stockholm; (2) −3° at Munich, +6° at Belfast, 9° at Lyons and Wiesbaden, 13° at Berlin, 16° at Paris.

It is rising over the northern and western parts of the Kingdom, but has again fallen fast over Germany, and France.

WIND

NW^ly, and moderate over the British Islands as a whole, SW^ly over Germany, SW^ly to E^ly over the northern parts of Norway, and is strong at Bodö.

Over the Bay of Biscay it is N^ly to E^ly, and light.

WEATHER

Fine and bright over Spain and the south of France, as well as at several stations over the northern half of our Islands and the north of Scandinavia. Elsewhere it is dull, with rain in the west of Scotland and north of Ireland.

A little rain has fallen over our Islands except over Wales and the southwest of England.

SEA

Moderate in the extreme north and northwest, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The weather seems likely to become milder generally than of late, and will probably be somewhat showery in most places but with bright intervals.

FORECASTS

For the 24 hours ending at NOON on 14th JANUARY, 1893.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST 2 ENGLAND N.E.	Wind mainly NW^ly; weather changeable from fair to showery.	6 SCOTLAND WEST 7 ENGLAND N.W.	Same as No^s 0 to 2.
3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	NW^ly breezes, light to moderate, perhaps a shower or two, but fair as a whole. Milder.	8 ENGLAND S.W. 9 IRELAND NORTH 10 IRELAND SOUTH	NW^ly breezes, 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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·08	34	32	SE	2	o	2
Sumburgh Head	30·08	40	39	NNW	2	c	3
Stornoway	30·29	41	40	NW	3	c	3
Aberdeen	30·20	38	36	NW	3	c	3
Shields	30·20	39	38	NNW	3	o	4
Ardrossan	30·26	41	40	NW	1	b	0
Malin Head ...	30·34	41	40	N	4	b	2
Mullaghmore ...	30·37	42	40	NNW	4	c	2
Belmullet	30·40	44	42	NE	2	ob	*
Holyhead	30·28	42	39	NNE	3	c	2

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30·30	40	37	NE	3	c	3
Scilly	30·21	43	38	NE	5	bc	3
Jersey	30·15	40	38	NE	4	bc	3
Hurst Castle ...	30·20	38	37	NNE	3	c	1
Dungeness... ...	30·18	34	32	SE	2	o	2
North Foreland...	30·22	32	31	SSE	2	o	3
London (Westminster)	30·19	37	36	NE	1	gm	*
Yarmouth	30·17	33	33	? NW	3	odp	4
Rochefort	30·02	32	31	ENE	4	b	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather in morning fine and bright over many parts of France and Germany, as well as in some parts of Ireland, Finland, and the north of Sweden, cloudy or overcast as a whole elsewhere, with snow over northern and central Russia, and at Hermansta db. and slight rain and sleet showers in various parts of our Islands. Similar showers occurring in many places during the day, but all of them slight.

Temperature risen a little in many parts of the British Islands and Norway, fallen fast on the Continent. Morning readings exceeding 50° on the southern side of the Mediterranean only; below 40° over the greater part of the United Kingdom, much lower elsewhere. Lowest of all (1) −21°F. at Haparanda, −14° at Hernösand, −2° at Kuopio, and −1° at Hangö; (2) −3° at Kiev, +1° at Munich, 5° at Buchar Peth, 6° at Berlin. Rising later to between 35° and 39° over the greater part of England, to between 40° and 45° over Ireland, to 47° at Stornoway.

Wind NW^{ly} to NE^{ly} over the United Kingdom, NE^{ly} to E^{ly} over the Bay of Biscay and Spain; mainly N^{ly} over Finland and the Baltic, NW^{ly} over South Germany and Austria Hungary; somewhat strong from NE. on the northern shores of the Adriatic and Mediterranean. Shifting to the S^{ud} and SE^{ly} temporarily on our extreme southeast coasts and in Holland during day but afterwards changing to the W^{ly}.

Barometer highest (1) 30·4 ins: and more to 30·1 ins: over the British Isles, the north of France, and neighbouring part of the Atlantic; (2) 30·3 ins: and more to 30·2 ins: over Sweden, Denmark, and Holland. Lowest, 29·6 ins: and less in a large shallow depression over Central Russia, and in a similar system over the Mediterranean Italy and Greece; 29·5 ins: and less, in another system advancing towards the southwest of Spain from the Atlantic; and rather below 30·1 ins: in a very shallow disturbance off the northwest of Norway. Last named depression growing much deeper later, but that near the southwest of Spain apparently filling up.

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 made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. 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, 14th January, 1893

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. Reading at 32° F. and Sea Level.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	THIS MORNING. (See note at bottom of last page.) Barometer. Reading at 32° F. and Sea Level.	Barometer. Change since Yesterday Morn.	Shade Temp. Dry Bulb.	Shade Temp. Wet Bulb.	Shade Temp. Change in dry since Yesterday.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	Sea (0 to 9).	PAST 24 HOURS. Weather.	Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
		Ins.	°				Ins.		°	°	°							°	Ins.
SCANDINAVIA.	Haparanda ...	30·01	−12	NE	0	c	30·01	−·07	−18	−18	+ 8	N	2	bc	*	c	−11	−24	-
	Hernösand ...	29·98	−12	N	2	c	30·10	+·05	−26	−27	− 8	NE	0	b	*	c	−9	?	-
	Stockholm ...	29·79	8	N	2	o	29·89	+·01	1	1	− 8	NNE	2	o	*	o	14	?	-
	Wisby	29·70	16	E	4	o	29·72	−·09	15	13	− 4	ENE	4	o	*	o	21	12	0·12
	Bodö	29·75	11	E	6	b	29·90	+·25	7	5	− 6	E	4	b	4	b	14	5	-
	Christiansund...	29·45	32	SW	4	c	29·69	+·19	24	23	− 12	ESE	4	b	3	c	36	23	0·32
	Skudesnaes ...	29·55	32	SW	4	s	29·70	+·03	25	22	− 8	SE	4	o	3	s	34	23	0·35
	Christiania Fjord (Færder)	29·73	15	ESE	5	s	29·87	+·10	12	11	− 7	NNE	5	c	2	s	19	10	-
	Skagen (The Scaw)	29·67	14	ESE	4	s	29·74	−·04	13	12	− 6	E	4	s	2	s	19	12	0·12
	Fanö	29·52	24	SE	0	o	29·59	−·10	20	19	− 11	ENE	2	o	*	s. o	31	18	0·24
BRITISH ISLANDS	Sumburgh Head	29·76	34	N	2	o	29·66	−·17	28	27	− 9	N	1	bc	3	o	38	26	0·10
	Stornoway ...	30·04	37	N	3	c	29·85	−·21	30	30	− 10	N	6	s	6	c	42	26	0·10
	Wick	29·88	34	NW	3	o	29·70	−·22	30	29	− 6	N	8	s	2	o.p	39	25	0·12
	Nairn	29·94	36	NW	1	c	29·75	−·22	30	30	− 12	NW	3	c	2	cs	42	30	0·04
	Aberdeen ...	29·89	36	NW	5	c q	29·72	−·23	29	27	− 10	NW	3	c	4	psh c	40	27	0·21
	Leith	29·95	36	W	3	bc	29·73	−·29	32	32	− 6	W	2	bc	*	bc	43	30	0·01
	Shields	29·92	39	W	3	cm	29·69	−·29	33	31	− 2	WNW	3	m	3	p. cm	41	32	0·01
	Spurn Head ...	29·88	36	NW	4	c	29·67	−·31	34	33	− 1	WNW	4	o	4	cp	39	33	0·01
	York	29·94	37	NNW	1	b	29·71	−·32	34	32	0	NW	2	o	*	b	41	32	-
	Loughborough	29·98	38	WNW	2	o	29·76	−·32	33	32	− 2	WNW	2	o q m	*	o	41	33	-
	Ardrossan ...	29·99	43	NW	1	b	29·71	−·37	36	36	− 6	W	3	o t s p	2	bc, b	46	35	-
	Malin Head ...	30·07	45	NW	5	o	29·79	−·40	37	36	− 8	N	6	o p	3	o	46	37	0·24
	Mullaghmore ...	30·18	44	WNW	3	c	29·87	−·39	43	41	− 1	WNW	6	o q q r	4	c p q. c	46	40	0·44
	Belmullet ...	30·23	45	NW	2	b	29·97	−·33	45	45	+ 3	NW	5	o	*	b	46	41	0·10
	Donaghadee ...	30·06	44	NNE	5	c	29·76	−·38	37	37	− 5	W	3	r	2	c	45	36	0·07
	Liverpool (Bidston)	30·00	39	WNW	4	b	29·77	−·36	35	34	− 1	WNW	3	o	2	b	41	35	0·01
	Holyhead ...	30·05	45	NW	5	c	29·79	−·36	37	35	− 6	NW	3	o q	2	bc, c	45	36	0·03
	Parsonstown ...	30·20	41	SW	0	o	29·88	−·41	41	40	+ 4	SW	1	o	*	o	44	36	-
	Valencia	30·30	44	NNW	2	o p	30·08	−·29	46	44	+ 9	NW	6	c	5	c m, o p	47	35	0·01
	Roche's Point	30·24	43	NNW	3	b	30·00	−·29	44	42	+ 4	NW	4	c	3	b	46	39	-
	Pembroke (St. Ann's Hd.)	30·12	44	NNW	4	bc	29·84	−·35	42	41	0	NW	4	o q p	3	bc	46	41	0·03
	Scilly	30·15	44	NNW	4	c p	29·95	−·26	45	42	+ 2	NNW	5	c p	3	c p	46	40	0·09
	Prawle Point ...	30·12	37	NW	2	b	29·87	−·34	40	40	+ 4	NW	4	o	3	b	41	34	-
	Jersey (St. Aubin's)	30·12	42	WNW	3	o q	29·90	−·28	45	42	+ 4	NW	3	c m	3	m, o d	45	35	0·03
	Hurst Castle ...	30·05	37	NW	3	bc	29·80	−·35	39	38	+ 3	NW	4	bc	2	bc, r	41	35	0·02
	Dungeness ...	29·95	36	NW	4	c	29·72	−·33	35	35	0	NW	3	o	2	c	38	32	0·01
	North Foreland	29·90	37	WNW	5	o q m	29·73	−·31	35	34	0	WNW	3	o q m	3	bc, o q m	37	33	0·04
	London	29·98	38	NW	1	o m	29·75	−·34	36	35	+ 1	NW	1	o q m	*	bc, o p	41	35	0·01
	Oxford	29·99	39	W	1	o	29·78	−·34	35	33	0	NW	1	o	*	c, or	41	35	0·04
	Cambridge ...	29·95	37	NW	1	o	29·73	−·33	34	33	− 1	W	1	o	*	o	40	32	-
	Yarmouth ...	29·86	36	NW	4	o	29·68	−·30	33	32	− 2	NW	4	o s f	4	o	39	31	0·02
GERMANY & HOLLAND	Cuxhaven ...	29·61	28	W	2	s	29·33	−·47	28	27	+ 4	NE	2	o	*	s	31	24	? 0·05
	Berlin	29·61	20	WSW	3	o	29·46	−·53	21	21	+ 8	NE	4	s	*	o	23	13	0·35
	Wiesbaden ...	*	*	*	*	*	29·67	−·46	28	28	+ 19	W	2	o	*	*	28	9	0·12
	Munich ...	-	-	-	-	-	29·68	−·33	24	23	+ 27	SW	1	o	*	?	23	−4	-
	The Helder ...	29·74	37	NW	7	s	29·73	−·17	34	33	0	WSW	3	c	3	s	39	32	0·24
BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	29·72	−·35	32	31	+ 14	WSW	3	o	*	s	34	17	0·08
	Cape Gris Nez	29·91	37	WNW	5	c	29·72	−·30	37	37	+ 2	WNW	5	o	5	c	39	35	0·16
	Paris	30·06	25	S	3	o	29·85	−·33	33	32	+ 17	SSW	2	o	*	o	?	16	-
	Brest	?	40	N	3	o	?	?	43	43	+ 6	NNW	3	o	3	o	*	37	0·16
	Lorient	30·15	41	NW	3	o	30·06	−·23	42	41	+ 10	NW	3	o	2	o	42	32	-
FRANCE AND	Rochefort ...	30·15	28	N	3	o	30·02	−·11	38	38	+ 19	NNE	3	c	*	o	*	19	?
	Belfort	?	16	W	4	o	?	?	23	21	+ 17	W	4	s	*	o	12	6	0·12
	Lyons	30·16	17	N	1	b	30·09	−·09	20	18	+ 1	E	1	o	*	b	28	9	-
	Nice	29·89	29	E	1	s	29·87	+·03	30	26	− 2	E	2	b	2	s	34	27	0·04
	Perpignan ...	30·02	35	NW	4	b	30·06	+·08	35	28	+ 4	NW	4	b	*	b	43	31	-
	Biarritz	30·14	32	NE	3	b	30·12	−·01	33	31	+ 13	E	2	o	1	b	39	20	-
PENINSULA.	Coruna	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lisbon	30·02	49	NNE	4	bc	30·10	+·18	43	41	+ 3	NNE	4	b	*	bc	52	40	-

For Explanation of Columns, see bottom of last page.

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

WEATHER CHARTS

for 8 a.m. on Saturday, 14th Jan.y 1893.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

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

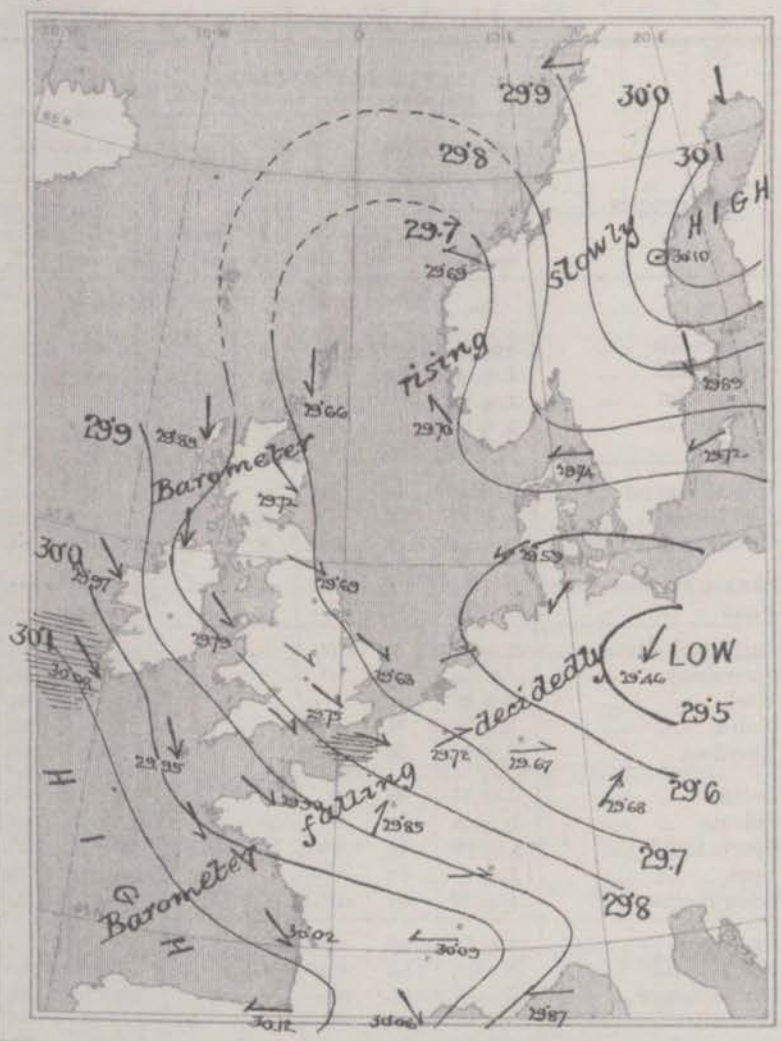
WIND—Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus—
= forces above 10; = forces 8 to 10;
= forces 5 to 7; = forces 1 to 4.
= dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:
= Rough. = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of January.
During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29·678
Stornoway	29·682
Wick	29·710
Nairn	29·745
Aberdeen	29·787
Leith	29·825
Shields	29·881
Spurn Head	29·926
York	29·932
Loughborough	29·967
Ardrossan	29·838
Mullaghmore	29·817
Donaghadee	29·856
Holyhead	29·902
Liverpool	29·924
Parsonstown	29·895
Valencia	29·887
Roche's Point	29·908
Pembroke	29·936
Scilly	29·969
Prawle Point	30·006
Jersey	30·012
Hurst Castle	30·002
Dover	30·012
LONDON	30·006
Oxford	29·999
Cambridge	29·993
Yarmouth	29·979



TEMPERATURE, & WEATHER AT 8 A.M.,
WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of January.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	RAINFALL. (Inches.)
Sumburgh Head	42·9	35·6	39·7	38·4	3·72
Stornoway	43·3	34·5	39·5	38·4	5·30
Wick	42·4	33·3	38·2	36·8	2·06
Nairn	42·2	32·9	37·2	35·6	1·99
Aberdeen	42·4	33·2	37·3	35·6	2·31
Leith	44·4	33·7	38·6	37·2	1·93
Shields	43·0	34·2	38·2	36·9	1·75
Spurn Head	41·7	34·5	37·7	36·7	1·35
York	42·7	32·5	36·7	35·7	1·87
Loughborough	43·0	32·3	36·4	35·4	2·04
Ardrossan	44·2	36·5	40·0	38·8	4·25
Mullaghmore	46·1	38·0	41·6	40·4	4·36
Donaghadee	44·4	36·1	40·0	39·2	2·98
Holyhead	45·6	38·7	41·7	40·3	3·38
Liverpool	43·5	35·2	38·6	37·0	2·22
Parsonstown	45·6	34·2	38·9	37·8	3·12
Valencia	49·5	40·4	44·5	43·3	6·69
Roche's Point	47·7	39·5	43·2	41·9	5·50
Pembroke	45·5	39·6	42·7	41·3	3·75
Scilly	48·8	42·9	46·4	44·9	3·73
Prawle Point	46·2	37·6	42·0	41·0	3·09
Jersey	45·8	38·3	41·8	40·4	3·21
Hurst Castle	46·0	36·3	40·3	39·5	2·94
Dover	43·5	35·8	39·2	38·1	2·58
LONDON	44·1	34·8	37·6	36·6	2·12
Oxford	43·1	33·6	37·1	36·1	2·26
Cambridge	43·3	31·7	36·2	35·4	1·54
Yarmouth	41·5	34·8	37·5	36·7	1·95

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest (1) 30·1 in: and more to 29·9 in: over the west of Ireland, the southwest of England and the Bay of Biscay – still higher over the Atlantic; (2) 30·0 in: and more over Finland and Sweden.
Lowest, 29·5 in: and less, in a depression over Germany; 29·8 in: and less over the North Sea and off the west of Norway, and 29·9 in: and less over the Riviera and Gulf of Genoa.
Gradients moderate as a whole. Barometer falling over France and England, rising in Norway and Scotland.

TEMPERATURE

Highest, 43° to 46° over the east and south of Ireland, 45° at Scilly and Jersey.
Lowest, (1) −26° F. at Hernösand, −18° at Haparanda, +1° at Stockholm; (2) 28° to 30° in the north and east of Scotland; (3) 20° at Lyons, 21° at Berlin.
It has risen very decidedly over France and Germany, but fallen over Scandinavia, Scotland and the north of Ireland.

WIND

Moderate E. on the Norwegian coast, N. to W. in Scotland, NW. over Ireland and England, W. to SW. in the east of France, western and southern Germany.

WEATHER

Fine and bright over the northern half of Scandinavia and the Shetland Islands, cloudy or overcast elsewhere, with snow at several of our northern and eastern stations and at Berlin, rain in the north of Ireland.
The rainfall has been somewhat considerable in the north of Ireland and west of Norway – slight in most places.

SEA

Rough at Stornoway, rather so off the west of Ireland and on the French side of the English Channel, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The secondary depression noticed over the North Sea yesterday has spread out considerably, but the recovery of pressure now in progress in the north is likely to spread over England soon, accompanied by a decided fall of temperature and probably snow.

FORECASTS

For the 24 hours ending at NOON on 15th JANUARY, 1893.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST 2 ENGLAND N.E.	N. to NE. winds; colder, some snow.	6 SCOTLAND WEST 7 ENGLAND N.W.	Same as No. 0 to 2
3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	NW. to N. winds; much colder, sleet or snow showers at times.	8 ENGLAND S.W. 9 IRELAND NORTH 10 IRELAND SOUTH	NW. to N. winds, becoming much colder, some cold showers.
		WARNINGS	None issued.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.58	34	33	nnw	2	s	2
Sumburgh Head	29.80	35	32	n	4	o	4
Stornoway	30.05	42	40	n	3	c	3
Aberdeen	29.92	39	36	nw	4	cqjph	3
Shields	29.93	40	39	w	3	c	3
Ardrossan	30.02	46	45	nw	1	bc	0
Malin Head ...	30.12	46	44	nw	4	o	2
Mullaghmore ...	30.21	45	43	nnw	5	cpq	4
Belmullet	30.26	45	42	nw	2	b	*
Holyhead	30.09	44	43	nw	3	bc	3

	BAR.	THER. Dry.	THER. Wet	WIND. Direc.	F.	WEA.	SEA.
Valencia	30.31	45	43	nw	1	cm	1
Scilly	30.18	45	41	nnw	4	c	3
Jersey	30.12	43	40	w	3	o	3
Hurst Castle ...	30.08	41	38	nw	3	bc	1
Dungeness... ...	29.98	38	36	nw	4	c	3
North Foreland...	29.95	37	36	wnw	4	bc	3
London (Westminster)	30.00	43	39	nw	2	bc	*
Yarmouth	29.90	39	37	nw	4	cf	3
Rochefort	30.16	26	25	n	3	o	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather fine and bright in the east of Scotland and the north of England, as well as in the north of Sweden, the south of France, Spain, Austria, and northern Italy. Dull in nearly all other localities, with passing showers in the north of Ireland, rain in Sicily, Tunis, and Algeria, and snow in Denmark, North Germany, Belgium, and the northeast of France, as well as at Pesaro. Weather clearing later in many parts of the United Kingdom, but showers in most districts during the 24 hours, with snow in the north of Scotland.

Temperature rises slightly in our Islands, Denmark, and North Germany, but falls elsewhere. Morning readings highest 56° at Malta, 54° at Nemours and Ilhan, and 51° at La Calle; above 40° at several of our western and northern stations, and as high as 45° at Malin Hd. Lowest −26° F. at Haparanda, −18° at Hernosand, −14° at Moscow, and −8° at St Petersburg; below zero in many parts of Austria and south Germany, and below 10° in some parts of Central France. Hard frost continuing over Central Europe all day, but thermometer reading 40° or more over England, and reaching 45° or more on many parts of our west and southwest coasts.

Wind light to moderate from the NW. over our Islands; moderate to strong from the SW. in North Germany, and from the SE. in Denmark, N. in Finland and Sweden; NW. or W. in Poland and Austria; variable over South Germany. Strong from NE. in Italy and light or moderate from the same quarter in Spain and the west of France, strong from N. in Algeria. No important change occurring during day.

Barometer highest 30·1 in. to 30·4 in. in an anticyclone extending from the Atlantic, over France, and all the more western parts of the United Kingdom; 30·0 in. and upwards in another system lying over the Gulf of Bothnia. Lowest, 29·5 in. and less, in a depression off the west of Norway; 29·6 in. and less, in another disturbance lying to the southward of Italy; 29·7 in. and less, in a shallow system lying near St Petersburg. Numerous small depressions appearing over North Sea during day, and barometer falling in most parts of Western Europe.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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

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" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT

for 8a.m. on Sunday 15th January, 1893

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. Reading at 32° F. and Sea Level.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	THIS MORNING. (See note at bottom of last page.) Barometer. Reading at 32° F. and Sea Level.	Barometer. Change since Yesterday Morn.	Shade Temp. Dry Bulb.	Shade Temp. Wet Bulb.	Shade Temp. Change in dry since Yesterday.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	Sea (0 to 9).	PAST 24 HOURS. Weather.	Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
		Ins.	°				Ins.		°	°	°							°	Ins.
SCANDINAVIA.	Haparanda ...	30·02	−30	Z	0	b	30·06	+·05	−31	−32	−13	Z	0	b	*	b	−11	−31	—
	Hernösand ...	30·15	−17	Z	0	b	30·10	·00	−27	−27	−1	Z	0	b	*	b	−11	−27	—
	Stockholm ...	30·07	1	NE	2	0	30·14	+·25	−7	−7	−8	Z	0	b	*	0	10	?	—
	Wisby	29·96	12	ENE	4	b	30·07	+·35	9	8	−6	ESE	4	*	*	b	18	9	0·12
	Bodö	29·90	?	E	4	s	29·92	−·08	23	22	+16	ESE	4	0	2	s	14	5	—
	Christiansund...	29·99	25	WSW	3	c	30·01	+·32	31	30	+7	WSW	3	0	3	c	31	24	—
	Skudesnaes ...	30·08	23	SE	4	s	30·04	+·34	25	24	0	SE	6	s	3	s	25	21	—
	Christiania Fjord (Færder)	30·11	9	NNE	4	b	30·10	+·23	11	10	−1	N	2	0	1	b	12	9	—
	Skagen (The Scaw)	30·10	6	ENE	2	bc	30·11	+·37	6	5	−7	Z	0	c	0	bc	13	3	—
	Fanö	29·99	9	ENE	4	b	30·14	+·55	5	4	−15	Z	0	b	*	b	23	?	—
BRITISH ISLANDS	Sumburgh Head	29·96	36	N	3	b	30·07	+·41	35	34	+7	N	1	0	3	b,b	38	27	0·02
	Stornoway ...	30·13	33	N	4	c	30·22	+·37	35	33	+5	NW	2	0	3	s,c	36	27	0·05
	Wick	30·01	32	N	3	bc	30·14	+·44	33	32	+3	N	1	0	1	bc	37	30	0·15
	Nairn	30·03	34	NNW	2	0	30·22	+·44	32	31	+2	NW	2	0	2	c,s	37	28	0·15
	Aberdeen ...	29·97	33	NW	4	bc	30·19	+·47	31	30	+2	WNW	3	bc	4	bcgrs	35	28	0·24
	Leith	30·00	33	NE	2	bc	30·22	+·49	35	32	+3	Z	0	b	*	bc	37	30	—
	Shields	29·86	36	N	3	c	30·22	+·53	30	29	−3	W	2	b	4	hpc	37	29	—
	Spurn Head ...	29·74	33	NNE	5	bc	30·20	+·53	31	30	−3	NE	3	bc	14	sp.bc	36	29	0·12
	York	29·84	31	N	2	c	30·24	+·53	28	28	−6	N	1	bc	*	sp.c	36	24	0·07
	Loughborough	29·71	32	NNE	4	bc	30·23	+·47	27	27	−6	NNE	2	bc	*	bc	35	27	0·01
	Ardrossan ...	30·04	33	Z	0	b	30·27	+·56	31	30	−5	Z	0	bc	0	sp.b	37	29	—
	Malin Head ...	30·09	39	NNE	6	b	30·30	+·51	38	36	+1	N	2	0	2	b	40	32	0·02
	Mullaghmore ...	30·09	41	N	8	b	30·35	+·48	34	33	−9	SSE	1	bc	2	bq	43	33	0·03
	Belmullet ...	30·19	41	N	5	b	30·38	+·41	39	37	−6	N	2	0	*	bcb	45	34	0·04
	Donaghadee ...	30·00	37	N	7	bc	30·28	+·52	37	35	0	NNE	6	b	5	bcq	39	32	0·22
	Liverpool (Bidston)	29·90	31	NNE	3	b	30·28	+·51	32	31	−3	NE	1	bc	1	b	37	30	—
	Holyhead ...	29·92	36	NE	6	c	30·26	+·47	39	36	+2	NNE	4	cg	4	smg,cp	39	33	0·45
	Parsonstown ...	30·07	34	NW	1	0	30·37	+·49	25	24	−16	Z	0	b	*	0	43	24	—
	Valencia	30·16	39	NNW	7	bq	30·44	+·36	33	32	−13	Z	0	bc	2	cqrs,b	48	30	0·01
	Roche's Point	30·04	36	N	5	bq	30·38	+·38	34	33	−10	N	3	b	3	bq	45	32	0·01
	Pembroke (St. Ann's Hd.)	29·94	33	N	5	s	30·24	+·40	36	33	−6	NNE	3	b	2	s	44	31	0·21
	Scilly	29·74	47	N	8	c	30·23	+·28	42	37	−3	NNE	5	c	4	hqc	48	37	0·07
	Prawle Point ...	29·64	32	NNE	7	s	30·22	+·35	28	28	−12	N	3	b	2	rsq,b.	44	28	0·26
	Jersey (St. Aubin's)	29·54	41	NW	5	0	30·11	+·21	35	30	−10	N	6	bcm	5	aqrs	46	34	0·36
	Hurst Castle ...	29·64	33	NNE	3	0	30·14	+·34	30	30	−9	NNE	5	bc	1	c,s	39	28	0·03
	Dungeness ...	29·58	33	N	2	c	?30·10	+·38	32	30	−3	NE	6	sq	6	csq	37	30	0·02
	North Foreland	29·59	35	N	6	0	30·10	+·37	32	32	−3	ENE	6	cqrsp	6	cq	37	29	0·02
	London	29·66	34	NE	3	0	30·14	+·39	28	26	−8	NE	3	b	*	qs	37	28	—
	Oxford	29·85	31	N	2	b	30·20	+·42	29	28	−6	NNE	4	0	*	cspq	35	28	—
	Cambridge ...	29·87	33	NW	2	c	30·19	+·46	27	26	−7	NNE	2	b	*	c,s	35	25	0·04
	Yarmouth ...	29·64	34	NE	5	c	30·11	+·43	30	30	−3	NE	8	cqs	6	c	34	26	0·32
GERMANY & HOLLAND	Cuxhaven ...	29·74	21	E	3	b	30·10	+·57	14	12	−14	NE	3	b	*	b	28	12	—
	Berlin	29·78	9	E	3	b	30·05	+·39	8	7	−13	ENE	2	0	*	b	21	3	0·04
	Wiesbaden ...	*	*	*	*	*	29·81	+·14	20	18	−8	N	4	bc	*	*	32	19	0·12
	Munich ...	29·60	25	SW	4	c	29·38	−·10	23	22	−1	NE	6	s	*	c	28	23	—
	The Helder ...	29·79	27	NE	8	b	?30·16	+·43	24	24	−10	E	5	bc	3	b	34	23	0·04
BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	29·99	+·27	15	14	−17	NE	6	bc	*	s	34	15	0·04
	Cape Gris Nez	29·57	29	N	5	c	29·95	+·23	28	28	−9	ENE	7	0	7	c	37	21	—
	Paris	29·59	32	SW	2	s	29·78	−·07	24	23	−9	N	5	0	*	s	36	23	0·67
	Brest	?	43	NNW	6	r	?	?	37	36	−6	N	5	c	4	r	48	36	0·28
	Lorient	29·65	42	WNW	7	0	30·01	+·01	35	33	−7	N	7	c	4	0	46	34	—
FRANCE AND	Rochefort ...	29·75	43	WNW	4	c	29·83	−·19	33	33	−5	N	6	bc	*	c	46	30	0·20
	Belfort	?	31	W	5	s	29·87	?	31	31	+8	E	4	s	*	s	31	23	0·24
	Lyons	29·78	29	S	1	0	29·89	−·70	30	30	+10	S	1	s	*	0	32	29	0·67
	Nice	?	32	E	1	b	29·53	−·34	33	28	+3	E	2	c	3	b	41	30	—
	Perpignan ...														*				
	Biarritz	29·93	45	WSW	5	0	29·78	−·34	42	39	+9	N	8	r	4	0	46	43	—
PENINSULA.	Corunna	*	*	*	*	*	30·17	+·15	44	40	−3	NE	5	c	3	*	52	39	0·04
	Lisbon	30·12	48	N	3	b	30·12	+·02	47	44	+4	NNW	2	c	*	b	55	43	—

For Explanation of Columns, see bottom of last page.

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

WEATHER CHARTS

for 8 a.m. on Sunday, 15th Jan. 1893.

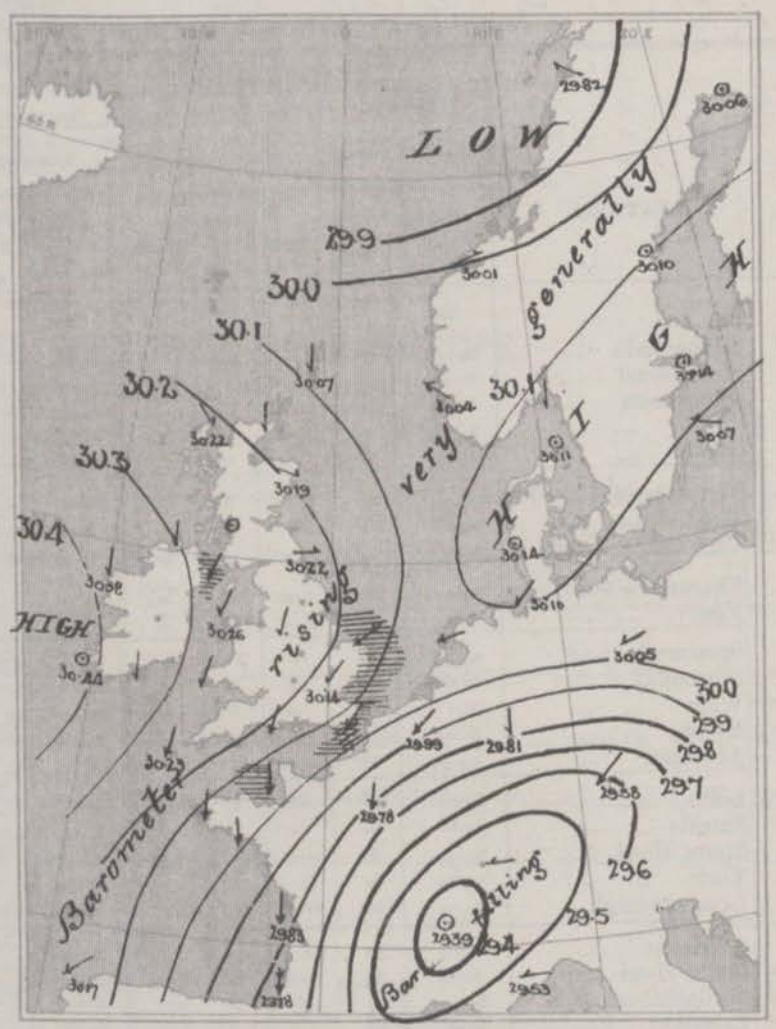
BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

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

WIND—Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus—
= forces above 10; = forces 8 to 10;
= forces 5 to 7; = forces 1 to 4.
⊙ = dead calm.

SEA DISTURBANCE—Where considerable, is shewn thus:
= Rough. = High.



MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of January. During the 20 Years: 1871—1890.

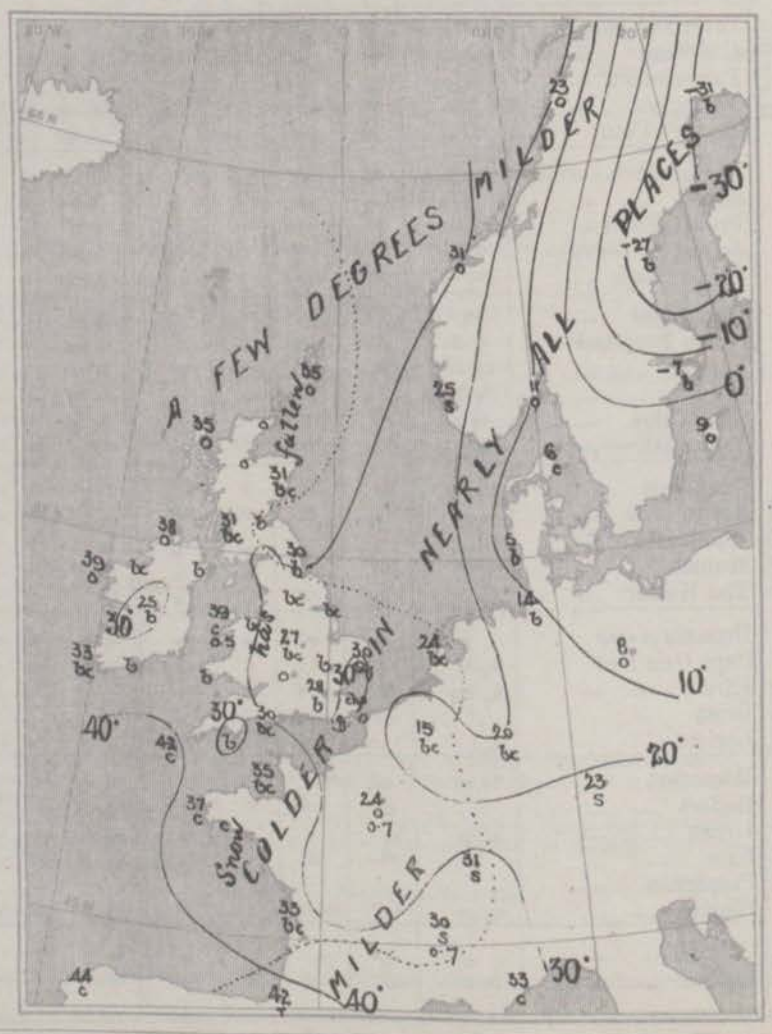
STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29·675
Stornoway	29·682
Wick	29·710
Nairn	29·745
Aberdeen	29·787
Leith	29·825
Shields	29·881
Spurn Head	29·926
York	29·932
Loughborough	29·967
Ardrossan	29·858
Mullaghmore	29·817
Donaghadee	29·856
Holyhead	29·902
Liverpool	29·924
Parsonstown	29·896
Valencia	29·887
Roche's Point	29·906
Pembroke	29·936
Scilly	29·969
Prawle Point	30·006
Jersey	30·012
Hurst Castle	30·002
Dover	30·012
LONDON	30·006
Oxford	29·999
Cambridge	29·993
Yarmouth	29·979

TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.



MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of January.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	RAINFALL. (Inches.)
Sumburgh Head	42·9	35·6	39·7	38·4	3·72
Stornoway	43·3	34·5	39·5	38·4	5·30
Wick	42·1	33·3	38·2	36·8	2·05
Nairn	42·2	32·9	37·2	35·6	1·99
Aberdeen	42·4	33·2	37·3	35·6	2·31
Leith	44·4	33·7	38·6	37·2	1·93
Shields	43·9	34·2	38·2	36·9	1·75
Spurn Head	41·7	34·5	37·7	36·7	1·85
York	42·7	32·5	36·7	35·7	1·87
Loughborough	43·0	32·3	36·4	35·4	2·04
Ardrossan	44·2	36·3	40·0	38·8	1·25
Mullaghmore	46·1	38·0	41·6	40·4	4·36
Donaghadee	44·4	36·1	40·0	39·2	2·98
Holyhead	45·6	38·7	41·7	40·3	3·38
Liverpool	43·5	35·2	38·6	37·0	2·22
Parsonstown	45·6	34·2	38·9	37·8	3·12
Valencia	49·5	40·4	44·5	43·2	6·69
Roche's Point	47·7	39·5	43·2	41·9	5·50
Pembroke	45·5	39·6	42·7	41·3	3·75
Scilly	48·8	42·9	46·4	44·9	3·73
Prawle Point	46·2	37·6	42·0	41·0	3·09
Jersey	45·8	38·3	41·8	40·4	3·21
Hurst Castle	45·0	36·3	40·2	39·5	2·94
Dover	43·5	35·8	39·2	38·1	2·58
LONDON	44·1	34·8	37·6	36·6	2·12
Oxford	43·1	33·6	37·1	36·1	2·26
Cambridge	43·3	31·7	36·2	35·4	1·54
Yarmouth	41·5	34·8	37·5	36·7	1·95

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, (1.) 30·3 ins: and more to 30·1 ins: over the British Islands and Brittany, and still higher over the adjacent parts of the Atlantic; (2) 30·1 ins: and more over Denmark and the southern half of Sweden.

Lowest, (1) 29·4 ins: and less, in a depression having its centre near Lyons, and (2) 29·9 ins and less over Finmark and the northern parts of Norway.

Gradients steep for E. to N. winds over the northern and western parts of France, moderate for various breezes elsewhere.

Barometer rising fast except over the southern parts of France on the one hand and the northern parts of Norway on the other.

TEMPERATURE

Highest, 47° at Lisbon, 42° at Perpignan, Biarritz, and Scilly, 39 at Holyhead.

Lowest, (1) −31° F. at Haparanda, −7° at Stockholm; +5° at Jaö; (2) 8° at Berlin, 15° at Brussels, 24° at Paris, 25° at Parconstown, 27 to 30° over England.

It has fallen very fast over Ireland, England, France and Germany during the night and less quickly over Sweden.

WIND

(1.) Light from between N. and W. at the Scotch stations — chiefly SE. in Norway, but SW. at Christiansund.

(2) Moderate NNE. over Ireland and the east and north of England, but strong to a gale from NE. on our southeastern coasts and the northern and western parts of France.

(3) W. a gale at Perpignan, SW. strong at Sète.

A N. gale has been felt on our western, southern, and eastern coasts generally.

WEATHER

Fine and bright over our Islands as a whole, but equally wet and snow on our southeastern coasts, and at several of the French stations.

Although snow has fallen generally the amounts reported are small except at Holyhead, where the fall yielded 0·45 ins: of water.

SEA

Rough at our eastern, and southern stations, high on the French coast, moderate in the north and west of our Islands.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 16th Jany 1893.

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 pm yesterday to districts 2, 3, 5 and 7 to 10 "HOIST NORTH CONE". Signals lowered this morning in districts 2 and 7 to 10.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.94	23	21	SE	4	s	3
Sumburgh Head	29.85	36	34	N	2	be	3
Stornoway	30.02	33	33	N	3	s	4
Aberdeen	29.87	32	29	NNW	3	b	4
Shields	29.74	34	32	NNW	3	o	5
Ardrossan	29.87	35	33	W	2	b	1
Malin Head ...	29.93	38	34	N	7	bc	4
Mullaghmore ...	29.99	38	35	N	9	bq	6
Belmullet	30.06	40	35	N	6	bc	*
Holyhead	29.71	34	35	NE	4	smg	3

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29.99	47	43	NNW	8	cqrs	6
Scilly	29.75	48	44	NW	7	c	3
Jersey	29.66	45	42	W	4	o	3
Hurst Castle ...	29.61	35	34	NE	2	s	1
Dungeness... ...	29.62	37	34	NNW	2	om	1
North Foreland...	29.61	3	33	N	3	c	3
London	29.63	37	33	N	1	o	*
Yarmouth	29.60	33	33	N	4	os	4
Rochefort	29.92	41	?	W	3	c	*

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

Weather cloudy or overcast in most parts of our Islands and the Continent, with showers of rain or sleet at several of our western stations, and with snow in the north of Scotland, as well as in some parts of Denmark and Germany. Fine and bright over the northern parts of Russia and Scandinavia as well as in Spain, northern Italy, and the south of France, but rain falling at Cagliari, Tunis, and Malta. Snow falling later in many parts of Western Europe,—heavily in Wales, the southwest of England and the central parts of France.

Temperature rises rapidly in Germany and Central France, fallen in most other countries. Morning readings highest 51° at Nemours, Avranches, and Le Calle, and 48° at Algiers; (2) 46° at Valencia Island and 45° at Belmullet, Scilly, and Jersey. Lowest −26° F. at Hernösand, −25° at Moscow, −21° at Archangel, and −15° at St Petersburg; below zero over the northern parts of Russia and Sweden generally; below 10° in Austria and below 20° even over northern Italy. Decided fall taking place later over the southern parts of England, and daily maxima below 40° in most parts of Great Britain. Thermometer exceeding 50° in Spain as well as at Palermo and Malta, but not reaching 40° over the northern parts of Italy, and remaining as low as 28° at Pesaro.

Wind light to fresh from the NW^rly over our Islands and the greater part of France. W^ly or SW^ly over the Netherlands, central France, and the western and southern parts of Germany, but E^ly or NE^ly over Denmark, the Baltic and the greater part of Scandinavia. NE^ly in Spain and Italy, but varying between S. and W. in Algeria. Subsequently veering to the N^rly or NE^rly in our Islands, and increasing to a gale on our eastern and southern coasts.

Barometer highest 30·1 ins. and upwards, in a large anticyclone lying over Spain and the Bay of Biscay; 30·0 ins. and upwards in a smaller system lying over the Gulf of Bothnia. Lowest 29·5 ins. and less, in a depression over Germany, small secondary disturbances lying over various parts of Gt Britain and the North Sea. Main depression and secondary systems uniting and forming one complex disturbance over the Netherlands and the north of France, barometer rising briskly in the west and north of our Islands.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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

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" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Monday, 16th January, 1893

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. Reading at 32° F. and Sea Level.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	THIS MORNING. (See note at bottom of last page.) Barometer. Reading at 32° F. and Sea Level.	Barometer. Change since Yesterday Morn.	Shade Temp. Dry Bulb.	Shade Temp. Wet Bulb.	Shade Temp. Change in dry since Yesterday.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	Sea (0 to 9).	PAST 24 HOURS. Weather.	Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
		Ins.	°				Ins.		°	°	°							°	Ins.
SCANDINAVIA	Haparanda ...	30.30	4	SW	4	0	30.48	+.42	-23	-23	+ 8	2	0	b	*	0	5	-33	-
	Hernösand ...	30.23	-29	2	0	b	30.35	+.25	-13	-14	+ 14	2	0	b	*	b	?	-31	-
	Stockholm ...	30.13	-1	2	0	0	30.16	+.02	-2	-2	+ 5	NNE	2	b	*	0	3	-8	-
	Wisby	30.08	11	E	4	0	30.08	+.01	5	3	- 4	E	4	b	*	b	18	15	0.04
	Bodö	29.79	25	E	2	b	29.83	+.01	18	16	- 5	E	7	0	4	b	25	14	-
	Christiansund...	29.84	34	SW	3	0	29.70	-.31	32	30	+ 1	ESE	3	c	4	0	34	28	0.04
	Skudesnaes ...	29.93	28	2	0	0	29.78	-.26	28	26	+ 3	SE	7	0	4	0	30	25	-
	Christiania Fjord (Faerder)	30.04	12	NNE	2	m	30.06	-.04	9	8	- 2	NE	3	0	1	m	12	9	-
	Skagen (The Scaw)	29.97	17	SE	3	0	29.98	-.13	9	8	+ 3	ESE	3	0	1	0	18	6	0.04
	Fanö	29.91	29	SW	6	S	29.84	-.30	23	23	+ 18	NE	2	0	*	*	32	5	0.28
BRITISH ISLANDS	Sumburgh Head	29.87	37	WNW	1	0	29.46	-.61	44	43	+ 9	NNW	4	0	4	0	44	27	0.30
	Stornoway ...	29.99	36	W	3	r	29.74	-.48	35	35	0	NW	6	r	5	0, r	36	35	0.20
	Wick	29.89	35	NW	2	0	29.57	-.57	42	42	+ 9	NW	2	0	1	0, r	42	32	0.30
	Nairn	29.97	36	W	3	c	29.65	-.57	45	44	+ 13	WSW	3	c	1	c	45	31	0.18
	Aberdeen ...	30.04	33	WSW	1	0	29.62	-.57	41	40	+ 10	WNW	4	0gq	3	0g	41	31	0.06
	Leith	30.12	32	W	1	b	29.69	-.53	40	39	+ 8	W	3	0	*	b	40	32	0.05
	Shields	30.16	34	W	2	c	29.72	-.50	37	36	+ 7	SW	1	m	3	c, r	37	28	0.10
	Spurn Head ...	30.18	30	WSW	3	b	29.81	-.39	32	32	+ 1	SW	4	omsp	4	b	33	29	-
	York	30.20	30	SSW	1	bc	29.77	-.47	34	34	+ 6	S	1	0	*	bc	35	25	0.02
	Loughborough	30.27	27	WSW	1	0	29.89	-.34	31	30	+ 4	SSW	3	rm	*	0g	35	27	0.01
	Ardrossan ...	30.11	39	WSW	4	r	29.71	-.56	45	45	+ 14	NW	4	0	2	r	45	26	0.01
	Malin Head ...	30.04	40	SW	4	0	29.85	-.43	46	46	+ 8	NW	5	0d	3	0	46	38	0.32
	Mullaghmore ...	30.23	41	SSW	3	0gm	29.95	-.40	47	46	+ 13	WNW	6	0d	4	0g, r	48	33	0.44
	Belmullet ...	30.25	43	SW	5	r	30.06	-.32	49	47	+ 10	NW	5	0	*	0, r	49	37	0.39
	Donaghadee ...	30.21	35	W	4	b	29.82	-.46	46	45	+ 9	NW	6	cqp	4	b	46	34	0.24
	Liverpool (Bidston)	30.24	32	WSW	2	m	29.80	-.48	37	37	+ 5	SSE	1	r	1	m	38	30	0.04
	Holyhead ...	30.26	37	SW	1	0g	29.81	-.45	44	44	+ 5	W	3	0dg	2	c, 0g	44	36	0.29
	Parsonstown ...	30.30	36	2	0	0	29.98	-.39	46	45	+ 21	NW	1	0r	*	0, r	47	23	0.41
	Valencia	30.38	41	W	1	0r	30.13	-.31	49	47	+ 16	NNW	5	ogmq	5	0	49	31	0.18
	Roche's Point	30.37	39	NW	3	c	29.99	-.39	47	47	+ 13	NW	5	p	4	b, 0	47	34	0.10
	Pembroke (St. Ann's Hd.)	30.30	37	SW	1	c	29.88	-.36	44	44	+ 8	NNW	3	rm	4	c	45	35	0.28
	Scilly	30.31	41	NNE	3	chp	†29.97	-.26	48	48	+ 6	NNW	5	r	4	chp	48	37	0.25
	Prawle Point ...	30.32	29	NNE	3	b	29.97	-.25	39	39	+ 11	NSW	3	rm	2	b	39	26	0.08
	Jersey (St. Aubin's)	30.26	34	N	3	ogm	30.10	-.01	36	33	+ 1	W	3	og	3	sh, og	43	29	0.02
	Hurst Castle ...	30.29	25	NNE	4	b	30.00	-.14	37	36	+ 7	NSW	4	cr	2	b	37	23	-
	Dungeness ...	30.20	31	NE	4	c	30.02	-.08	27	27	- 5	WNW	3	bc	2	c	33	19	-
	North Foreland	30.22	32	NE	3	oqhsp	29.98	-.12	28	26	- 4	W	2	oq	3	c, qhsp	32	27	-
	London	30.27	28	NE	2	0	29.97	-.17	30	29	+ 2	SW	2	0 s	*	b, bc, 0	31	24	-
	Oxford	30.28	26	NW	1	m	29.95	-.25	30	30	+ 1	SW	4	0 s	*	c, m	33	25	-
	Cambridge ...	30.26	25	N	1	bc	29.93	-.26	29	29	+ 2	SW	2	s	*	bc	35	22	-
	Yarmouth ...	30.20	27	N	2	bcf	29.92	-.19	27	27	- 3	W	3	qf	4	bcf	31	21	-
GERMANY & HOLLAND	Cuxhaven ...	30.18	17	W	1	0	29.87	-.23	26	25	+ 12	WSW	3	s	*	0	26	14	-
	Berlin	30.17	9	WSW	2	0	30.06	+.01	6	6	- 2	SW	2	0	*	0	?	5	-
	Wiesbaden ...	*	*	*	*	*	30.12	+.31	1	0	- 19	N	1	0	*	*	1	0	-
	Munich ...	29.91	7	N	6	b	29.97	+.39	-11	-11	- 34	SE	1	m	*	b	23	-11	0.04
	The Helder ...	30.23	22	SSE	1	b	29.97	-.19	32	30	+ 8	SW	5	0	3	b	32	21	-
FRANCE AND BELGIUM	Brussels (9 a.m.)	*	*	*	*	*	30.07	+.38	12	12	- 3	SSE	2	0	*	b	20	4	-
	Cape Gris Nez	30.15	26	ENE	6	c	30.01	+.06	24	24	- 4	S	5	c	?	c	32	23	-
	Paris	30.10	18	N	5	b	30.16	+.38	2	2	- 22	N	1	b	*	b	24	1	-
	Brest	?	36	ENE	4	c	?	?	41	41	+ 4	W	3	r	3	c	48	32	-
	Lorient	30.24	35	N	6	0	30.16	+.15	34	33	- 1	W	3	0	2	0	36	32	-
	Rochefort ...	30.05	30	NNE	6	b	30.13	+.30	20	19	- 13	ENE	2	c	*	b	34	18	-
	Belfort														*				
	Lyons	29.63	24	NNW	5	s	29.99	+.60	12	12	- 13	NW	2	b	*	s	33	11	-
	Nice	29.40	31	NE	5	bc	29.73	+.20	39	37	+ 6	NE	3	bc	3	bc	?	30	-
	Perpignan ...	29.66	30	NW	8	c	29.77		28	25		NW	9	0	*	s	41	25	0.04
	Biarritz	30.01	36	NNE	7	bc	30.17	+.39	25	23	- 17	E	1	b	4	bc	43	21	-
PENINSULA	Corunna	*	*	*	*	*										*			
	Lisbon	30.16	44	N	4	b	30.26	+.14	38	34	- 9	N	4	b	*	b	54	37	-

For Explanation of Columns, see bottom of last page.

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

WEATHER CHARTS

for 8 a.m. on Monday, 16th Jan: 1893.

BAROMETER, WIND AND SEA.

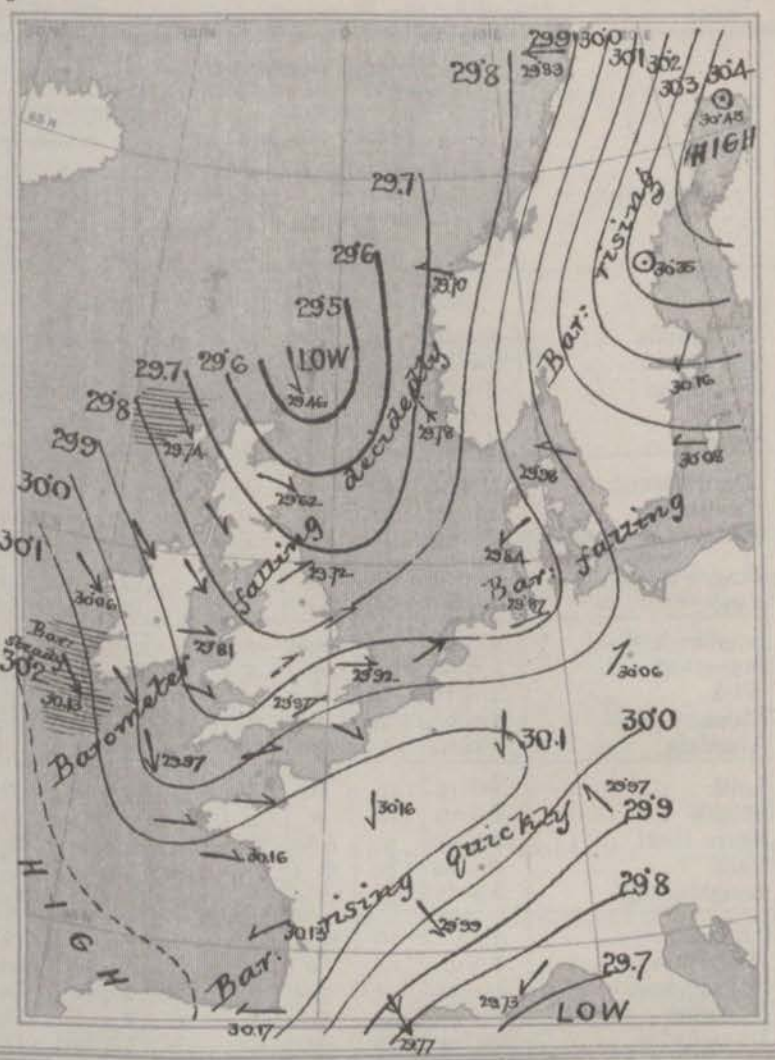
EXPLANATION OF MAP

BAROMETER—Isobars are drawn for each tenth of an inch.
Changes since previous morning are stated in words.
WIND—Arrows show the prevailing winds. They fly with the wind and their barbs and feathers refer to force thus—
= forces above 10; = forces 8 to 10;
= forces 5 to 7; = forces 1 to 4.
= dead calm.
SEA DISTURBANCE—Where considerable, is shown thus:
= Rough. = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of January.
During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29·675
Stornoway	29·682
Wick	29·719
Nairn	29·745
Aberdeen	29·787
Leith	29·825
Shields	29·881
Spurn Head	29·926
York	29·932
Loughborough	29·967
Ardrossan	29·839
Mullaghmore	29·817
Donaghadee	29·855
Holyhead	29·902
Liverpool	29·924
Parsonstown	29·895
Valencia	29·887
Roche's Point	29·908
Pembroke	29·936
Scilly	29·969
Prawle Point	30·006
Jersey	30·012
Hurst Castle	30·002
Dover	30·012
LONDON	30·006
Oxford	29·999
Cambridge	29·993
Yarmouth	29·979



TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

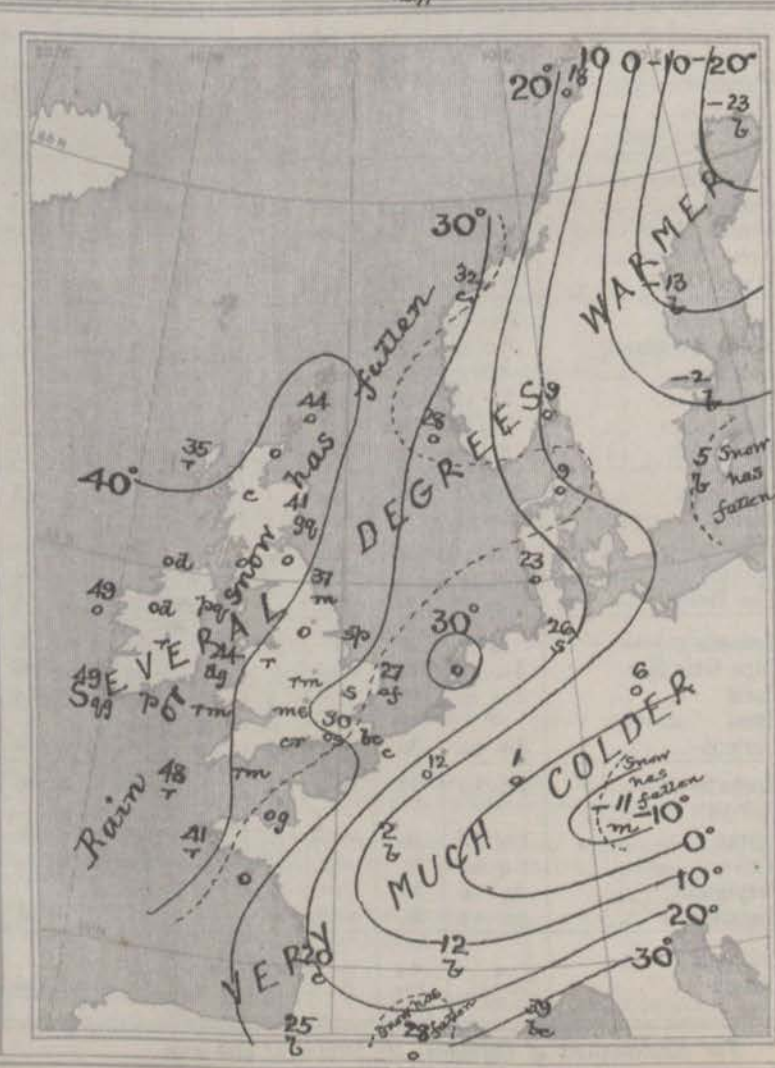
TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.
WEATHER is shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of January.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	at 8 a.m. Wet.	RAINFALL (Inches.)
Sumburgh Head	42·9	35·6	39·7	38·4	3·72
Stornoway	43·3	34·5	39·5	38·4	5·30
Wick	42·4	33·3	38·2	36·8	2·05
Nairn	42·2	32·9	37·2	35·6	1·99
Aberdeen	42·4	33·2	37·3	35·6	2·31
Leith	44·4	33·7	38·6	37·2	1·93
Shields	43·0	34·2	38·2	36·9	1·75
Spurn Head	41·7	34·5	37·7	36·7	1·35
York	42·7	32·5	36·7	35·7	1·87
Loughborough	43·9	31·3	36·4	35·4	2·04
Ardrossan	44·2	35·3	40·0	38·8	4·25
Mullaghmore	46·1	38·0	41·6	40·4	4·36
Donaghadee	44·4	36·1	40·9	39·2	2·98
Holyhead	45·6	38·7	41·7	40·3	3·38
Liverpool	43·5	35·2	38·6	37·0	2·22
Parsonstown	43·6	34·2	38·9	37·8	3·12
Valencia	49·5	40·4	44·5	43·3	6·69
Roche's Point	47·7	39·5	43·2	41·9	5·50
Pembroke	45·5	39·6	42·7	41·3	3·75
Scilly	48·8	42·9	46·4	44·9	3·73
Prawle Point	46·2	37·6	42·0	41·0	3·09
Jersey	43·8	38·3	41·8	40·4	3·21
Hurst Castle	45·0	36·3	40·3	39·5	2·94
Dover	43·5	35·8	39·2	38·1	2·38
LONDON	44·1	33·8	37·6	36·6	2·12
Oxford	43·1	33·6	37·1	36·1	2·26
Cambridge	43·3	31·7	36·2	35·4	1·54
Yarmouth	41·5	34·8	37·5	36·7	1·95

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, (1) 30·4 in: to 30·0 in: over Finland, the Gulf of Bothnia, and Sweden; (2) 30·1 in: and more to 30·0 in: over the west of Ireland and the western and central parts of France — still higher over the adjoining parts of the Atlantic.

Lowest, 29·5 in: and less, over the Shetlands, 29·7 in: to 29·8 in: in a "V" over the North Sea, and about 29·7 in: over the Gulf of Genoa.

Gradients steep over Sweden, moderate to slight elsewhere.

Barometer falling over our Islands, rising over Sweden and the greater part of France.

TEMPERATURE

Highest, 46° to 49° at the Irish stations, 48° at Scilly, 44° at Holyhead.

Lowest (1) −23° F. at Haparanda, −2° at Stockholm; (2) −11° at Munich, +1° at Wiesbaden, 2° at Paris; (3) 24° to 29° over the southeastern counties of England.

It is changing very suddenly — having risen fast in Ireland and Scotland, and fallen rapidly over France.

WIND

NW^{ly} fresh to strong at our western and northwestern stations, SW^{ly} moderate over the southern, central, and eastern parts of England, SE^{ly} to E^{ly} in the west of Norway.

It is apparently increasing in force in the west and north and spreading southeastwards.

WEATHER

Very unsettled generally; clear and bright at the Swedish stations and at Paris, cloudy or overcast elsewhere, with rain or snow at many stations.

The falls of snow or rain have at present been slight except in the north of Ireland — where they amounted to 0·4 in. at 8 a.m.

SEA

Rather rough at Valencia and Stornoway, moderate in the west and northwest generally, slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression in the north seems to be spreading southeastwards and seems likely to cause NW^{ly} to N^{ly} gales in many places. Our west, north, and east coasts have all been warned.

FORECASTS

For the 24 hours ending at NOON on 17th JAN^{y} 1893.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST 2 ENGLAND N.E.	NW^{ly} winds, strong, a gale in places; squalls of snow. Becoming colder.
3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	SW^{ly} to NW^{ly} winds, increasing in force; snow and rain. Milder at first, but not permanently so.
6 SCOTLAND WEST 7 ENGLAND N.W. 8 ENGLAND S.W. 9 IRELAND NORTH 10 IRELAND SOUTH	NW^{ly} winds, increasing in force; temperature unsteady, rain and snow showers.
WARNINGS	At 10·30 a.m. to districts 0 to 3 and 6 to 10 "HOIST NORTH CONE".

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·01	30	28	E	2	0	2
Sumburgh Head							
Stornoway	30·10	36	35	NW	2	0	2
Aberdeen							
Shields							
Ardrossan							
Malin Head ...	30·24	39	38	NSW	4	0	2
Muilaghmore ...							
Belmullet	30·32	43	39	W	2	0	*
Holyhead	30·28	40	37	N	0	cgm	0
Valencia							
Scilly							
Jersey	30·18	35	32	NNE	5	bc	4
Hurst Castle ...							
Dungeness	30·15	31	30	ENE	5	c	4
North Foreland ...	30·13	31	29	E	5	c	6
London							*
Yarmouth							
Rochefort	29·94	33	32	NNE	6	bc	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather fine and bright over the greater part of our Islands, but dull in the north of Scotland and squally, with snow, in the extreme southeast of England. Fine also over Sweden, northern Russia, Denmark, the Netherlands, western Germany and the south of Italy; dull in other parts of the Continent, with rain in some parts of S^rn. Europe and Algeria, and with snow in some parts of Germany and central France. Thunderstorm reported at Malta. Rain spreading later from the Atlantic over all the more W^rn. and N^rn. parts of the United Kingdom, but weather remaining fair in the S. & E.

Temperature risen slightly in Scotland and more decidedly over S^rn. Europe; fallen elsewhere,—quickly over Denmark, Germany and the Baltic. Morning readings highest 57° at Oran, 53° at Nemours, 52° at Algiers, and 51° at Malta, above 40° on the coasts of the Spanish Peninsula. Lowest −31° F. at Archangel and Haparanda, −27° at Hernösand, −25° at S^t. Petersburg, and −22° at Moscow; below zero over the whole of Sweden and Russia, as well as at some of the German and Austrian stations; below the freezing point in most parts of Europe, including G^t. Britain and central Ireland. Daily maxima below the freezing point in the S.E. of England but brisk rise of temperature taking place towards evening on our east and northeast coasts.

Wind light from the NW^rly. in Scotland and from the N^rly. in Ireland. Strong to a gale from the NE^rly. in the south and southeast of England and from the N^rly. over the greater part of France, but SW^rly. or S^rly. in the south of France. Calm or light and variable over Scandinavia, Denmark and northern and central Russia, E^rly. at most of the Italian stations, but varying between S. and W. in Algeria. Subsequently backing to the W^rly. or SW^rly. in the N. and W. of our Islands; gales in SE extremity subsiding.

Barometer highest 30·4 ins. and upwards in an anticyclone lying off the W. of Ireland; 30·2 ins. and upwards in another system over central Russia. Lowest 29·4 ins. and less in a depression lying over France with its centre near Lyons; gradients steep on its N. and W. sides. Depression subsequently travelling away to the SE^rly. and partially filling up, new disturbance beginning to approach our N^rn. coasts and barometer falling briskly in Scotland and the north of Ireland.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD

FROM THE 8TH. TO 14TH. JAN. 1893.

The Summary will be found in Sunday's Report.

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 made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. 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 8a.m. on TUESDAY 17TH JANUARY. 1893

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. Reading at 32° F. and Sea Level.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	THIS MORNING. (See note at bottom of last page.) Barometer. Reading at 32° F. and Sea Level.	Barometer. Change since Yesterday Morn.	Shade Temp. Dry Bulb.	Shade Temp. Wet Bulb.	Shade Temp. Change in dry since Yesterday.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	Sea (0 to 9).	PAST 24 HOURS. Weather.	Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
		Ins.	°				Ins.		°	°	°							°	Ins.
SCANDINAVIA.	Haparanda ...	30.05	-16	NE	2	0	30.24	-.24	-9	-9	+14	2	0	0	*	0	5	-26	—
	Hernösand ...	30.38	-5	2	0	bc	30.31	-.04	-24	-25	-11	2	0	bc	*	bc	-2	-29	—
	Stockholm ...	30.21	1	NE	2	0	30.20	+.04	4	3	+6	SE	2	c	*	0	5	-4	—
	Wisby	30.10	8	E	4	8	30.06	-.02	15	13	+10	SE	4	8	*	8	16	3	0.04
	Bodö	29.99	14	E	7	0	29.78	-.05	11	9	-7	E	7	c	4	0	18	7	—
	Christiansund...	29.92	31	ESE	8	bc	29.77	+.07	32	30	0	S	2	0	3	bc	32	28	—
	Skudesnaes ...	30.02	26	SSE	4	bc	30.01	+.23	21	19	-7	SSE	6	0	4	bc, bc	[illegible]	18	—
	Christiania Fjord (Færder)	30.24	4	NNE	4	bc	30.15	+.11	1	0	-8	NNE	3	bc	1	bc	9	0	—
	Skagen (The Scaw)	30.11	5	E	3	bc	30.11	+.13	4	4	-5	E	1	0	0	bc	10	1	—
	Fanö	29.98	9	E	4	bc	30.05	+.21	3	3	-20	E	4	bc	*	bc	23	3	—
BRITISH ISLANDS	Sumburgh Head	29.74	32	2	0	c	29.98	+.12	39	39	-5	W	2	r	3	c	44	39	0.32
	Stornoway ...	29.85	44	NW	4	r	29.84	+.10	39	39	+4	NW	4	0	4	r	46	35	0.20
	Wick	29.78	39	N	1	0	29.65	+.08	39	38	-3	NNW	7	0w	3	0qr	48	34	0.05
	Nairn	29.81	40	2	0	c	29.76	+.11	40	39	-5	NW	3	r	2	c	45	33	0.14
	Aberdeen ...	29.78	40	NNE	6	0qrq	29.72	+.10	35	34	-6	NNW	6	0rqq	6	rqq	49	35	0.24
	Leith	29.78	32	W	1	c	29.76	+.07	39	38	-1	NNW	3	r	*	c	46	35	0.11
	Shields	29.65	42	WNW	4	0p	29.80	+.08	36	36	0	SSE	2	0	5	r, 0 0p	48	33	0.01
	Spurn Head ...	29.53	39	NNW	4	0p	29.88	+.07	32	31	0	S	3	0	4	0qd	39	32	0.07
	York	29.55	41	N	4	bc	29.85	+.08	34	33	0	S	1	0	*	bc	41	33	0.01
	Loughborough	29.64	38	NNW	3	c	29.88	-.01	32	31	+1	ENE	2	0fg	*	c	41	21	0.02
	Ardrossan ...	29.83	43	NNW	3	bc	29.85	+.14	41	40	-4	N	3	bc	2	c, bc	49	36	—
	Malin Head ...	29.91	45	NNW	5	0dp	29.95	+.10	43	40	-3	NNW	7	cq, p	4	0dp	46	42	0.09
	Mullaghmore ...	30.02	46	NNW	6	0p	30.09	+.14	44	41	-3	NNW	7	bcq, p	5	0d, 0p	48	42	0.07
	Belmullet ...	30.10	49	N	5	0	30.16	+.13	45	41	-4	NW	3	bc	*	0	49	43	0.05
	Donaghadee ...	29.84	46	N	7	bc	29.98	+.11	43	41	-3	N	7	c	5	bc	48	43	0.08
	Liverpool (Sidston)	29.72	37	NW	5	bc	29.90	+.10	35	34	-2	NW	1	0	1	bc	41	30	0.06
	Holyhead ...	29.77	45	N	6	bcq	29.92	+.11	41	41	-3	N	5	rmqq	4	0qbcq	47	40	0.05
	Parsonstown ...	29.99	46	NW	1	0	30.11	+.13	41	39	-5	E	0	0q	*	0	48	40	0.02
	Valencia	30.14	49	N	7	0mq	30.24	+.11	47	44	-2	NNW	7	0mq	6	mqmq	50	45	0.01
	Roche's Point	29.97	47	N	6	0q	30.09	+.10	45	43	-2	N	5	bc	4	0q	49	43	—
	Pembroke (St. Ann's Hd.)	29.80	47	NNW	5	0	29.94	+.06	45	43	+1	NNW	4	fq	4	0	47	41	0.05
	Scilly	29.84	49	NNW	7	c	29.95	-.02	48	47	0	NNW	7	cp	4	m, c	49	46	0.10
	Prawle Point ...	29.71	44	NW	2	0	29.90	-.07	35	35	-4	NNW	2	bc	1	0rf	44	34	0.23
	Jersey (St. Aubin's)	29.72	39	SW	5	0rm	29.88	-.23	43	41	+7	NW	4	0m	3	r0qp	48	35	0.26
	Hurst Castle ...	29.62	40	NNW	5	r	29.86	-.14	37	36	0	NNE	8	0m	3	0rm	41	36	0.23
GERMANY & HOLLAND	Dungeness ...	29.63	33	SW	6	8	29.87	-.15	27	27	0	S	3	c	3	8r	36	26	0.11
	North Foreland	29.59	32	SW	6	8q	29.87	-.11	25	20	-3	SSE	2	cm	3	8q	34	23	0.36
	London	29.50	32	SSW	2	0md	29.87	-.10	30	29	0	SE	2	0	*	0d, r	40	30	0.25
	Oxford	29.65	36	W	1	bc	29.86	-.09	34	33	+4	NNW	1	0q	*	8r bc	39	30	0.12
	Cambridge ...	29.65	33	SW	2	r	29.86	-.07	29	29	0	ESE	1	0	*	r	37	27	0.17
	Yarmouth ...	29.57	33	SSW	3	0	29.87	-.05	30	30	+3	S	4	c	4	d, 0	33	26	0.17
	Cuxhaven ...	29.90	24	2	0	0	30.02	+.15	18	17	-8	ENE	2	bc	*	0	26	16	—
	Berlin	29.89	18	W	2	0	29.94	-.12	12	12	+6	NE	2	0	*	0	19	5	0.20
	Wiesbaden ...	*	*	*	*	*	29.94	-.18	-1	-1	-2	2	0	0	*	*	14	-2	—
	Munich ...	29.84	-5	2	0	bc	29.77	-.20	-14	-14	-3	NW	4	m	*	bc	1	-15	—
	The Helder ...	29.75	24	8	4	bc	29.98	+.01	15	15	-17	SSE	1	bc	*	bc	*	*	0.16
BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	29.96	-.11	7	7	-5	SSE	1	bc	*	0	23	6	—
	Cape Gris Nez	29.66	28	SSW	6	8	29.85	-.16	18	18	-6	ESE	1	c	1	8	30	16	—
	Paris	29.90	*	SSE	2	0	29.88	-.28	8	8	+6	NE	2	bc	*	0	22	*	0.20
	Brest	*	48	N	4	0	*	*	46	46	+5	N	5	0	4	0	48	*	0.12
	Lorient	29.72	45	SSW	5	r	29.86	-.20	44	41	+10	NNW	5	0	4	r	45	34	—
FRANCE AND	Rochefort ...	29.88	31	SSW	4	0	29.77	-.26	28	27	+8	E	3	0	*	c, 0	32	18	—
	Belfort	*	1	NE	2	bc	*	*	-3	*		E	4	c	*	bc	13	-10	—
	Lyons	30.01	8	N	1	bc	29.84	-.15	-1	-1	-13	N	1	bc	*	bc	14	-3	—
	Nice	29.49	39	2	0	c	29.43	-.26	32	28	-7	NE	4	bc	3	c	45	28	—
	Perpignan ...	29.76	32	NW	6	bc	29.35	-.20	30	26	+2	E	0	0	*	bc	38	28	—
	Biarritz	29.99	35	S	2	0	29.76	-.41	42	41	+17	NNE	10	0	4	0	*	*	—
PENINSULA.	Corunna	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lisbon	30.21	44	NNE	4	bc	30.12	-.14	53	49	+15	NNW	5	bc	*	bc	2	44	—

For Explanation of Columns, see bottom of last page.

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

WEATHER CHARTS

for 8 a.m. on Tuesday, 17th January, 1893.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

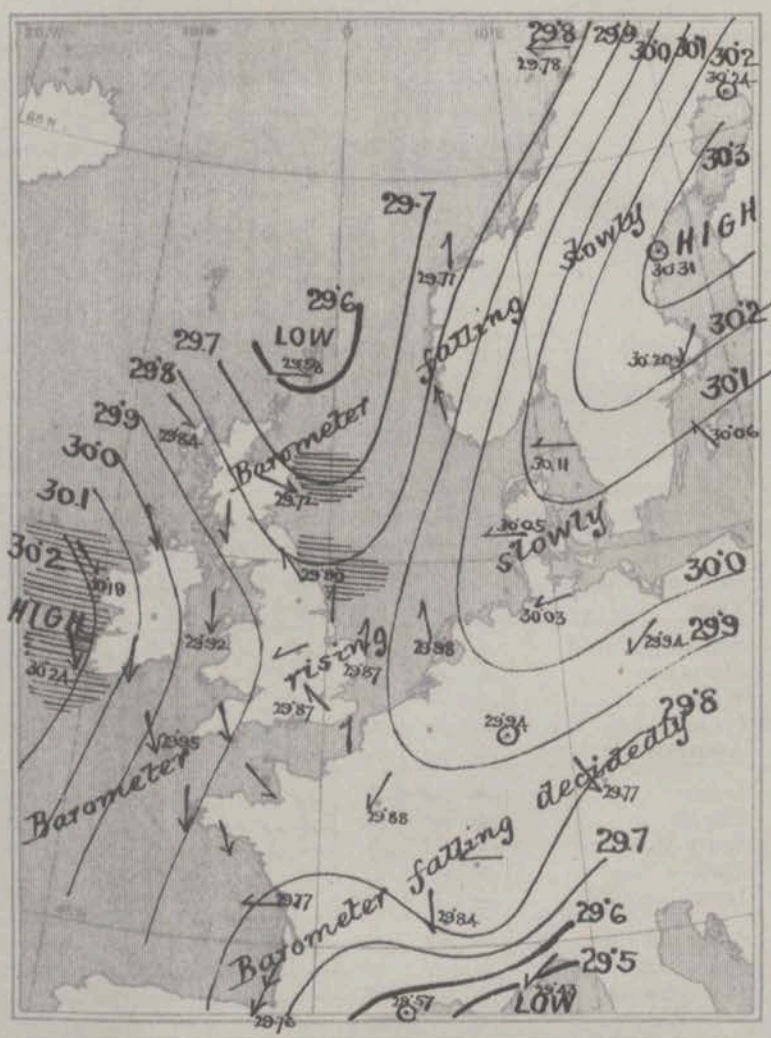
BAROMETER.—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

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

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

SEA DISTURBANCE.—Where considerable, is shewn thus:

= Rough. = High.



MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of January. During the 20 Years: 1871—1890.

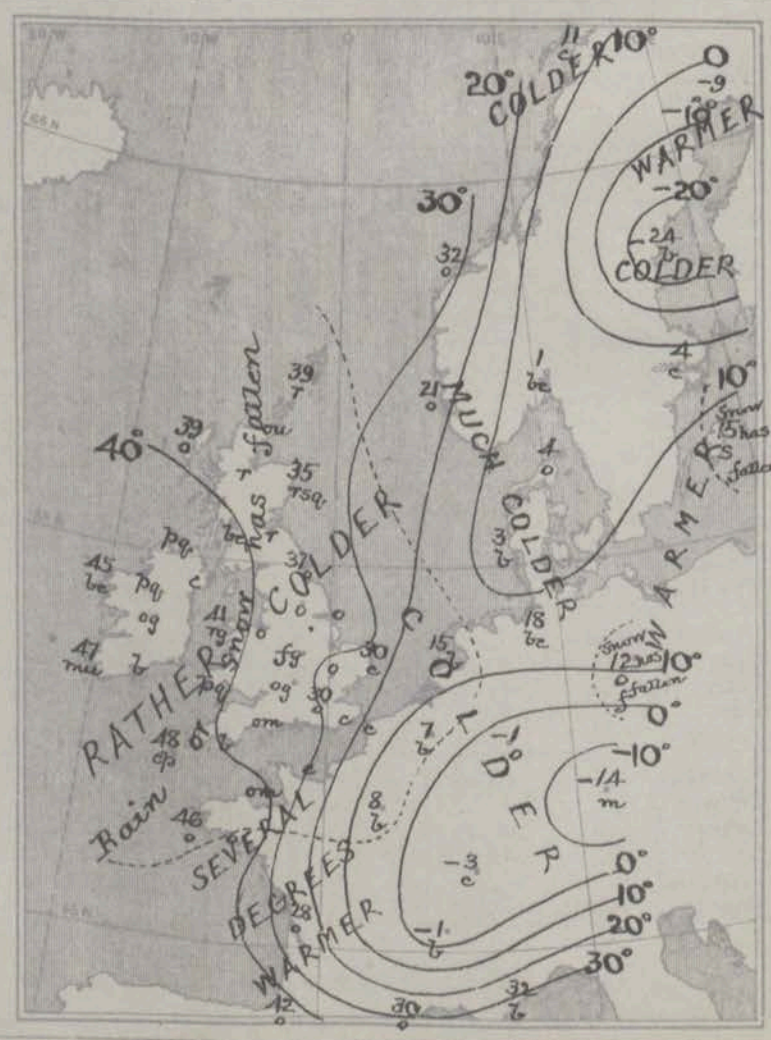
STATIONS.	MEAN READINGS. ins.
Sumburgh Head	29·675
Stornoway	29·682
Wick	29·719
Nairn	29·745
Aberdeen	29·787
Leith	29·825
Shields	29·881
Spurn Head	29·926
York	29·932
Loughborough	29·967
Ardrossan	29·833
Mullaghmore	29·817
Donaghadee	29·856
Holyhead	29·902
Liverpool	29·924
Parsonstown	29·895
Valencia	29·887
Roche's Point	29·908
Pembroke	29·936
Scilly	29·969
Prawle Point	30·006
Jersey	30·012
Hurst Castle	30·002
Dover	30·012
LONDON	30·006
Oxford	29·999
Cambridge	29·993
Yarmouth	29·979

TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE.—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shown by Letters of the Beaufort Scale.

RAINFALL.—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.



MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of January.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	RAINFALL. (Inches.)
Sumburgh Head	42·9	35·6	39·7	38·4	3·72
Stornoway	45·3	34·5	39·5	38·4	5·30
Wick	42·1	33·3	38·2	36·8	2·03
Nairn	42·2	32·9	37·2	35·6	1·99
Aberdeen	42·4	33·2	37·3	35·6	2·31
Leith	44·4	33·7	38·6	37·2	1·93
Shields	43·0	34·2	38·2	36·9	1·75
Spurn Head	41·7	34·5	37·7	36·7	1·35
York	42·7	32·3	36·7	35·7	1·87
Loughborough	43·0	32·3	36·4	35·4	2·04
Ardrossan	44·2	36·3	40·0	38·8	4·25
Mullaghmore	46·1	38·0	41·6	40·4	4·36
Donaghadee	44·4	36·1	40·0	39·2	2·98
Holyhead	45·6	38·7	41·7	40·3	3·38
Liverpool	43·5	35·2	38·6	37·0	2·22
Parsonstown	45·6	34·2	38·9	37·8	3·12
Valencia	49·5	40·4	44·5	43·3	6·69
Roche's Point	47·7	39·5	43·2	41·9	5·50
Pembroke	45·5	39·6	42·7	41·3	3·75
Scilly	48·8	42·9	46·4	44·9	3·73
Prawle Point	46·2	37·6	42·0	41·0	3·09
Jersey	45·8	38·3	41·8	40·4	3·21
Hurst Castle	45·0	36·3	40·3	39·5	2·94
Dover	43·5	35·8	39·2	38·1	2·58
LONDON	44·1	34·8	37·6	36·6	2·12
Oxford	43·1	33·6	37·1	36·1	2·26
Cambridge	43·3	31·7	36·2	35·4	1·51
Yarmouth	41·5	34·8	37·5	36·7	1·95

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·8 in. and upwards over Central Sweden; 30·2 in. and upwards in the southwest of Ireland.
Lowest, 29·5 in. and less, in a depression lying over the Gulf of Genoa; 29·6 in. and less in another system lying near the Shetlands.
Gradients slight over England, the Netherlands, Germany, but rather steep elsewhere.
Barometer falling in Scotland and Scandinavia, as well as in the south of France, but rising elsewhere.

TEMPERATURE

Highest, 53° at Lisbon, 48° at Scilly, 47° at Valencia Island, 46° at Brest, 45° at Helmsdale, Rockabill Point and Pembroke.
Lowest, (1) −24° F. at Hernösand, −9° at Haparanda, and 1° at Faeroe; (2) 14° at Munich, −3° at Belfast, and −1° at Mirabadow and Munich.
During yesterday the thermometer rose to 45° or more at most of our western and northern stations; in the east and southeast of England, however, it did not reach 40°.

WIND

Strong to a gale from the NW.ly in the north of Scotland and from the N.ly on the west coast of our islands and France.
Light or moderate from the S.ly or SE.ly in the east and southeast of England; light from E. or NE. in Denmark, Germany, central France, and the south of Scandinavia.
Calm over the northern parts of Sweden; strong from E. at Bodö.

WEATHER

Dull over the United Kingdom, Germany, and the west and south of France, rain or sleet is falling in Scotland, and passing showers on many parts of our western coasts.
Fine over Denmark, the Netherlands, the south of Norway, and the central parts of France.
Rain or snowfell yesterday over nearly the whole of our Islands, but the amounts were as a rule not large.

SEA

Rough or rather so on many parts of our western and northern coasts, but moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The distribution of pressure is now becoming very irregular. A new depression which has appeared off the north of Scotland seems likely to occasion very rough weather in the north, but the disturbance is not likely to move southwards. An anticyclone is apparently spreading over the North Sea from the northeastward, and colder weather is probable over England.

FORECASTS

For the 24 hours ending at NOON on 18th JANY. 1893.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	NW.ly and N.ly strong winds and gales; squally, some snow or sleet.	6 SCOTLAND WEST 7 ENGLAND N.W. 8 ENGLAND S.W.	NW.ly and N.ly winds, freshening; cloudy, some cold showers.
2 ENGLAND N.E. 3 ENGLAND EAST 4 MIDLAND COUNTIES	Same as No. 5	9 IRELAND NORTH 10 IRELAND SOUTH	NW.ly and N.ly strong winds and gales; squally, showery.
5 ENGLAND SOUTH	Wind varying considerably both in direction and force; dull, gloomy, possibly some snow. Becoming colder.	WARNINGS	At 0·30 pm yesterday to district 5. "HOIST NORTH CONE". At 11·20 am today to districts 3 & 5 "LOWER CONE". Signals flying all other coasts.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.86	29	25	SE	6	bc	4
Sumburgh Head	29.63	40	40	NNW	8	c	4
Stornoway	29.80	46	45	N	6	p	6
Aberdeen	29.64	40	40	NNW	8	cqu	4
Shields	29.68	40	38	WNW	2	o	3
Ardrossan	29.70	47	46	NW	5	c	8
Malin Head ...	29.86	46	46	NNW	6	o	4
Mullaghmore ...	29.97	47	46	NW	8	od	5
Belmullet	30.03	48	47	NW	5	o	*
Holyhead	29.73	46	45	NNW	5	og	5

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc	F.	WEA.	SEA.
Valencia	30.13	49	48	N	7	pmq	6
Scilly	29.86	49	48	NNW	6	m	4
Jersey	29.91	38	37	SSW	8	p	3
Hurst Castle ...	29.73	40	38	WSW	5	sm	4
Dungeness... ...	29.76	34	33	SW	6	p	5
North Foreland...	29.76	34	33	SW	5	s	4
London (Westminster)	29.71	37	35	SW	8	ogdm	*
Yarmouth	29.67	31	30	SW	4	s	4
Rochefort	30.10	38	37	W	3	c	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Continental Information not received.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD

From the 9th to the 15th Jany 1883.

During the week a steady thaw has been general. It was much more decided over the western than over the eastern parts of the Kingdom — where the thermometer failed to reach 40° on most days even during the warmest part of the day. The thaw commenced with an increase of the SE^{ly} and E^{ly} winds which were blowing at the close of previous week, and was accompanied by a great deal of rain in the southwest of Ireland and very little elsewhere.

On Tuesday the gale had subsided and the wind was backing round towards NE. all over the country; on Thursday it was NE^{ly} to N^{ly} and on Friday NW^{ly}. On Saturday morning it was still NW^{ly} over Ireland and England, but was veering to the N^{ward} again at the Scotch stations, and there were indications that the colder N^{ly} breeze would spread all over the country shortly.

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 made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. 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 Wednesday, 18th January, 1893

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. Reading at 32° F. and Sea Level.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	THIS MORNING. (See note at bottom of last page.) Barometer. Reading at 32° F. and Sea Level.	Barometer. Change since Yesterday Morn.	Shade Temp. Dry Bulb.	Shade Temp. Wet Bulb.	Shade Temp. Change in dry since Yesterday.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	Sea (0 to 9).	PAST 24 HOURS. Weather.	Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
		Ins.	°				Ins.		°	°	°							°	ins.
SCANDINAVIA.	Haparanda ...	30·27	-11	SW	2	b	30·08	-·16	-9	-9	0	SE	4	s	*	b	-4	-15	-
	Hernösand ...	30·15	7	SE	4	s	29·96	-·35	10	9	+34	SE	4	c	*	s	10	-26	-
	Stockholm ...	30·22	10	NE	2	b	30·25	+·05	5	4	+1	SSW	2	b	*	b	12	0	-
	Wisby	30·21	9	SE	4	b	30·30	+·24	12	10	-3	SSE	4	b	*	b	18	5	-
	Bodö	29·46	8	E	8	s	29·34	-·44	17	16	+6	E	7	o	4	s	?	5	-
	Christiansund...	29·61	32	SW	4	o	29·38	-·39	37	33	+5	SW	6	o	4	o	37	32	-
	Skudesnaes ...	29·93	22	SSE	8	s	29·67	-·34	36	28	+15	SSE	8	r	5	o,s	36	21	-
	Christiania Fjord (Færder)	30·15	7	SSE	2	bc	30·00	-·17	19	19	+18	SSE	6	s	1	bc	?	1	-
	Skagen (The Scaw)	30·12	10	W	1	b	30·10	-·01	14	13	+10	SSW	4	o	2	b	16	3	-
	Fanö	30·13	9	E	4	?	30·12	+·07	10	9	+7	SE	4	c	*	?	12	3	-
BRITISH ISLANDS.	Sumburgh Head	29·66	40	W	1	b	29·56	-·02	44	43	+5	WNW	4	c	4	b	44	39	0·42
	Stornoway ...	29·86	42	W	4	r	29·87	+·03	48	47	+9	W	6	r	5	o,r	48	36	0·20
	Wick	29·80	37	NW	4	o	29·73	+·08	45	43	+6	NW	6	bc	5	o	45	32	0·33
	Nairn	29·86	40	W	2	c	29·87	+·11	47	46	+7	WNW	2	c	1	c	49	37	0·03
	Aberdeen ...	29·87	37	W	3	b	29·85	+·13	46	43	+11	WNW	5	cq	3	bq,p	46	34	0·19
	Leith	29·94	36	W	3	bc	29·97	+·21	45	43	+6	W	3	bcm	*	bc	46	36	0·01
	Shields	29·94	38	WNW	2	bm	29·94	+·14	43	42	+6	WNW	3	c	3	TS,c,r	43	32	0·23
	Spurn Head ...	29·94	33	SW	3	s	29·98	+·10	39	38	+7	WNW	4	om	3	s,r	39	30	0·08
	York	29·96	33	N	1	bc	30·04	+·19	41	40	+7	W	1	o	*	s,bc	41	29	0·22
	Loughborough	30·01	34	W	1	o	30·09	+·21	40	40	+8	W	3	r	*	os	41	30	0·22
	Ardrossan ...	30·00	43	WSW	2	o	30·00	+·15	46	45	+5	WNW	7	b	4	c,o	46	39	0·01
	Malin Head ...	30·06	45	NW	5	or	30·16	+·21	47	45	+4	NW	6	odp	4	hp,or	47	41	0·16
	Mullaghmore ...	30·18	46	WNW	5	qr	30·28	+·19	47	45	+3	W	4	oq	5	cqp,rq	47	41	0·03
	Belmullet ...	30·25	48	W	4	op	30·37	+·18	49	45	+4	NW	3	o	*	c,op	49	41	0·01
	Donaghadee ...	30·09	43	NW	5	c	30·12	+·19	47	45	+4	NW	6	bc	5	c	48	43	0·02
	Liverpool (Bidston)	30·07	38	W	3	b	30·14	+·24	42	40	+7	W	6	o	3	b	43	35	0·07
	Holyhead ...	30·11	44	NNW	6	cq	30·18	+·26	46	45	+5	WNW	5	oqq	5	cq	46	41	0·05
	Parsonstown ...	30·24	42	N	0	o	30·32	+·21	46	43	+5	W	1	oq	*	o	48	38	-
	Valencia	30·37	49	NNW	7	cq	30·45	+·21	49	46	+2	NW	4	ogm	4	bcq	50	44	-
	Roche's Point	30·24	46	N	5	b	30·38	+·29	48	46	+3	NNW	3	c	3	b	49	44	-
	Pembroke (St. Ann's Hd.)	30·13	44	NNW	6	bc	30·26	+·32	46	43	+1	NW	5	cq	5	bc	47	43	0·02
	Scilly	30·17	46	NNW	7	bc	30·34	+·39	49	47	+1	NW	5	c	4	bc	49	38	-
	Prawle Point ...	30·11	39	NNW	4	bc	30·28	+·38	44	43	+9	NW	3	cm	2	bc	45	34	-
	Jersey (St. Aubin's)	30·01	42	NNW	3	cm	30·25	+·42	45	44	+2	NW	3	oqm	3	oqm	45	40	0·01
	Hurst Castle ...	30·02	38	ENE	3	om	30·19	+·33	39	39	+2	NNW	4	od	2	ors,d	40	33	0·06
	Dungeness ...	30·00	32	SSW	2	o	30·13	+·26	31	29	+4	NNW	3	o	1	c,osp	33	24	0·07
	North Foreland	29·97	30	SW	1	gsm	30·10	+·23	34	27	+9	W	1	rqm	3	oqm,s	34	24	-
	London	30·02	32	SW	2	ods	30·13	+·26	34	33	+4	WSW	2	orsd	*	os,pr,b	34	27	0·10
	Oxford	30·08	36	NW	1	b	30·15	+·29	36	35	+2	WSW	1	r	*	s,b	36	32	0·11
	Cambridge ...	?29·97	29	N	0	o	30·10	+·24	37	37	+8	W	1	r	*	sp	37	27	0·10
	Yarmouth ...	29·96	29	SW	2	bcm	30·03	+·16	33	32	+3	WSW	3	f	4	cm	33	25	0·04
GERMANY & HOLLAND	Cuxhaven ...	30·11	19	E	2	o	30·24	+·22	20	?	+2	S	2	bc	*	o	20	4	-
	Berlin	30·08	7	NE	2	b	30·30	+·36	-4	-4	-16	WNW	2	o	*	b	19	-6	-
	Wiesbaden ...	*	*	*	*	*	30·25	+·31	2	2	+3	N	0	b	*	*	14	-1	-
	Munich ...	29·91	3	N	0	c	30·11	+·34	5	7	+22	SW	3	o	*	bc	8	-14	-
	The Helder ...	30·10	18	ESE	1	b	30·14	+·16	22	20	+7	SSW	3	f	3	b	21	12	-
BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	30·23	+·27	15	13	+8	SSE	2	c	*	b	21	6	-
	Cape Gris Nez	29·96	23	SSW	1	o	30·08	+·23	34	34	+16	WSW	1	m	1	o	?	18	-
	Paris	30·05	12	NE	2	o	30·25	+·37	10	9	+2	S	1	o	*	o	19	2	-
	Brest	?	43	NNE	5	o	?	?	48	46	+2	N	6	o	3	o	50	42	0·16
	Lorient	30·05	42	N	7	c	30·27	+·41	44	41	0	NNW	4	o	4	c	46	41	-
FRANCE AND	Rochefort ...	29·96	29	ENE	3	o	30·26	+·49	27	26	-1	NE	3	o	*	o	30	25	-
	Belfort	?	2	NE	2	b	?	?	-10	-11	-7	NE	3	b	*	b	10	-13	-
	Lyons														*				
	Nice	29·50	37	SE	2	c	29·71	+·28	29	24	-3	E	2	b	2	c	43	27	-
	Perpignan ...	29·75	37	NW	4	o	30·00	+·43	31	26	+1	NW	6	b	*	o	42	30	-
	Biarritz	29·98	41	E	1	f	30·23	+·47	33	31	-9	E	2	o	6	f	46	28	0·83
PENINSULA.	Corunna	*	*	*	*	*										*			
	Lisbon	30·17	52	N	6	o	30·23	+·11	48	46	-5	N	4	b	*	o	57	46	-

For Explanation of Columns, see bottom of last page.

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

WEATHER CHARTS

for 8 a.m. on Wednesday 18th Jan: 1893.

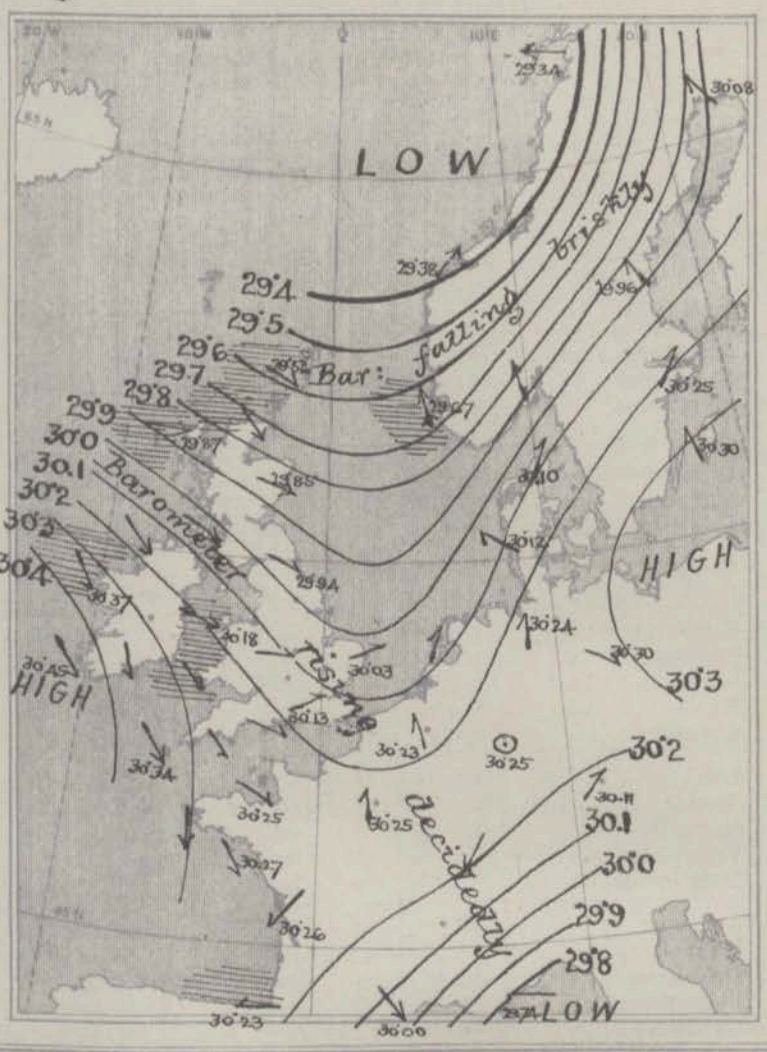
BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

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

WIND.—Arrows shew the prevailing winds. They fly with the wind and their barbs and feathers refer to force thus:—
= forces above 10; = forces 8 to 10;
= forces 5 to 7; = forces 1 to 4;
= dead calm.

SEA DISTURBANCE.—Where considerable, is shewn thus:
= Rough. = High.



MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of January.
During the 20 Years: 1871—1890.

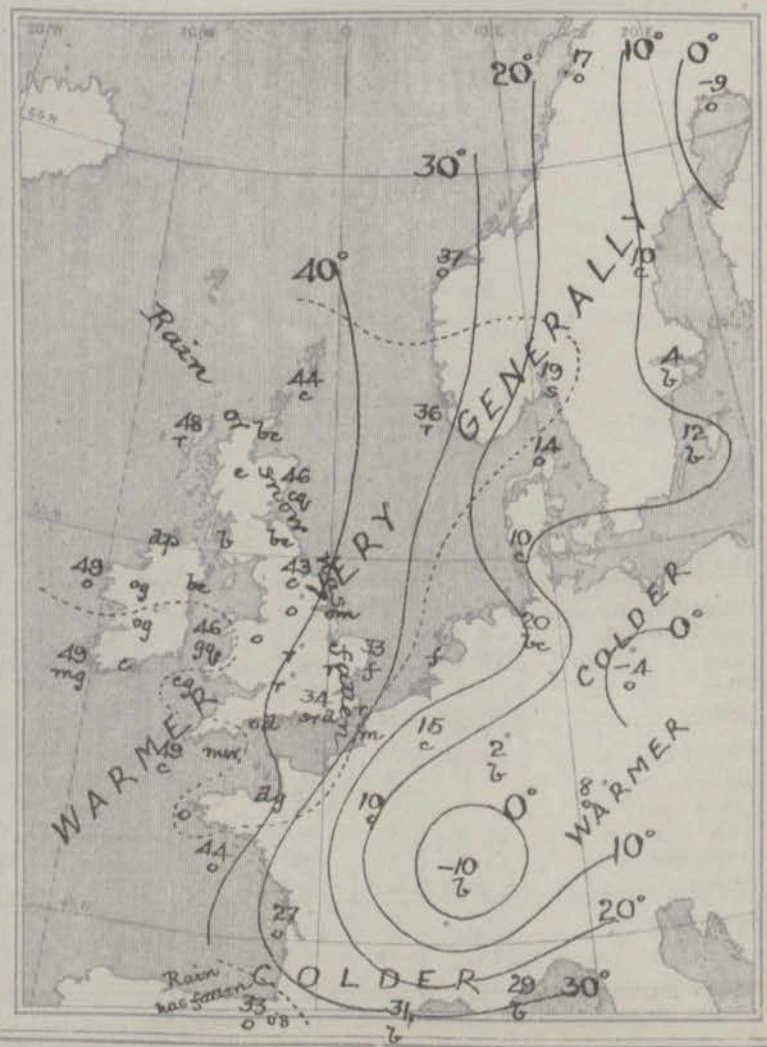
STATIONS.	MEAN READINGS. ins.
Sumburgh Head	29·675
Stornoway	29·682
Wick	29·719
Nairn	29·745
Aberdeen	29·787
Leith	29·825
Shields	29·881
Spurn Head	29·926
York	29·932
Loughborough	29·967
Ardrossan	29·838
Mullaghmore	29·817
Donaghadee	29·856
Holyhead	29·902
Liverpool	29·924
Parsonstown	29·895
Valencia	29·887
Roche's Point	29·908
Pembroke	29·936
Scilly	29·969
Prawle Point	30·006
Jersey	30·012
Hurst Castle	30·002
Dover	30·012
LONDON	30·006
Oxford	29·999
Cambridge	29·993
Yarmouth	29·979

TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE.—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shown by Letters of the Beaufort Scale.

RAINFALL.—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.



MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of January.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Day.	at 8 a.m. Wet.	RAINFALL. (Inches.)
Sumburgh Head	42·9	35·6	39·7	38·4	3·72
Stornoway	43·3	34·5	39·5	38·4	5·30
Wick	42·4	33·3	38·2	36·8	2·05
Nairn	42·2	32·9	37·2	35·6	1·99
Aberdeen	42·4	33·2	37·3	35·6	2·31
Leith	44·4	33·7	38·6	37·2	1·93
Shields	43·0	34·2	38·2	36·9	1·75
Spurn Head	41·7	34·5	37·7	36·7	1·35
York	42·7	32·5	36·7	35·7	1·87
Loughborough	43·0	32·3	36·4	35·4	2·04
Ardrossan	44·2	36·3	40·0	38·8	4·25
Mullaghmore	46·1	38·0	41·6	40·4	4·36
Donaghadee	44·4	36·1	40·0	39·2	2·98
Holyhead	45·6	38·7	41·7	40·3	3·38
Liverpool	43·5	35·2	38·6	37·0	2·22
Parsonstown	45·6	34·2	39·9	37·8	3·12
Valencia	49·5	40·4	44·5	43·3	6·69
Roche's Point	47·7	39·5	43·2	41·9	3·50
Pembroke	45·5	39·6	42·7	41·3	3·75
Scilly	48·8	42·9	46·4	44·9	3·73
Prawle Point	46·2	37·6	42·0	41·0	3·09
Jersey	45·8	38·3	41·8	40·4	3·21
Hurst Castle	45·0	36·3	40·3	39·5	2·94
Dover	43·5	35·8	39·2	38·1	2·58
LONDON	44·1	33·8	37·6	36·6	2·12
Oxford	43·1	33·6	37·1	36·1	2·26
Cambridge	43·3	31·7	36·2	35·4	1·54
Yarmouth	41·5	34·8	37·5	36·7	1·95

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30·4 in. and upwards, in an anticyclone lying off the southwest of Ireland; 30·3 in. and upwards in another system lying over Eastern Germany and the Baltic.

Lowest 29·4 in. and less, in a large depression lying off the west of Norway.

Gradients steep over Scandinavia and moderate over the North Sea and the west and north of our Islands, but slight elsewhere.

Barometer falling briskly over Norway and the northern parts of Sweden, rising in most other parts of Western Europe.

TEMPERATURE

Highest, 49° at Belmullet, Valencia Island and Scilly, 48° at Stornoway, Roches Point, Brest, and Lisbon, and 47° at Nairn, Malin Head and Donaghadee.

Lowest, −10° at Bodo, −9° at Haparanda, −4° at Berlin; +2° at Nikolaiev, 4° at Stockholm, and 8° at Munich.

During yesterday the thermometer rose to between 45° and 50° on all our western and extreme northern coasts, in the southeast of England it did not reach 35°.

WIND

Fresh or strong from the NW. on our western and northern coasts; light or moderate from W. in the east and southeast of England.

Moderate to strong from the SE. over the greater part of Denmark and Scandinavia, with a gale at Christiansund.

Light S. over the Netherlands and the northeast of France; SW. or W. in Germany; E. or NE. in the south of France.

WEATHER

Dull over the greater part of our area with rain at many of the English stations, as well as in the Hebrides and south of Norway and with snow at Haparanda and Faeder.

Fine at most of the Scotch stations, and also in the southern parts of Sweden and France.

Rain or snow fell yesterday in all but the southeastern parts of the United Kingdom.

SEA

Rather rough on our western and extreme northern coasts, but moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The Continental high pressure system appears to be receding to the southeastward, but the anticyclone off our southwest coast is spreading eastwards. The latter system is accompanied by mild weather, and a further rise of temperature is therefore probable over England.

FORECASTS

For the 24 hours ending at NOON on 19th JANUARY, 1893.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	W. and NW. winds, fresh or strong; squally, some showers.
2 ENGLAND N.E. 3 ENGLAND EAST 4 MIDLAND COUNTIES	Same as No. 5.
5 ENGLAND SOUTH	W. and NW. winds, light; cloudy, local fogs. Milder.
6 SCOTLAND WEST 7 ENGLAND N.W.	W. and NW. winds, strong to moderate; fair generally, but perhaps local showers.
8 ENGLAND S.W.	NW. and W. winds, falling light; fair generally.
9 IRELAND NORTH 10 IRELAND SOUTH	NW. to W. or SW. winds; fair generally.
WARNINGS	NONE ISSUED.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.		BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·01	22	21	SSE	7	o	4	Valencia	30·32	48	45	NNW	6	bcq	6
Sumburgh Head	29·64	41	37	NW	2	b	4	Scilly	30·08	46	39	NNW	3	bc	4
Stornoway	29·86	41	40	W	3	o	3	Jersey	29·92	43	40	NNW		o	3
Aberdeen	29·81	39	36	NW	6	bq	5	Hurst Castle ...	29·93	35	35	NNE	2	omts	2
Shields	29·83	39	37	NW	3	c	4	Dungeness... ...	29·90	32	30	WSW	2	c	1
Ardrossan	29·97	44	43	N	3	c	2	North Foreland...	29·94	28	27	SW	2	o	2
Malin Head ...	30·04	42	41	NW	5	o	4	London(Westminster)	29·91	32	31	SSW	2	os	*
Mullaghmore ...	30·10	45	43	NW	6	cmqp	5	Yarmouth	29·89	31	30	SSW	3	cm	4
Belmullet	30·22	48	44	NN	3	c	*	Rochefort	29·89	30	28	ENE	3	o	*
Holyhead	30·02	44	40	NNW	7	cq	6								

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather in morning fine and bright over northern Europe, as well as over Denmark, many parts of France, and the southwest of Spain; very dull elsewhere, with rain over the northern and western parts of the United Kingdom, snow in the east of Scotland. Snow, sleet and rain over our Islands during day, except at the southwestern stations, where the weather was, as a whole, fair; considerable rain at Biarritz.

Temperature changing jerkily, – fallen over Scotland and Scandinavia. Morning readings highest 44° to 51° on the southern shores of the Mediterranean, 43° to 47° on the Irish Coasts and 39° at Sumburgh Head, Stornoway and Leith. Lowest –44° F. at Hernösand, –22° to –5° over Finland, Russia and south Germany, –1° at Wiesbaden, 7° at Brussels, 8° at Paris, 25° at the North Foreland, 29° at Cambridge. Changing very jerkily and irregularly later.

Wind. Variable and anticyclonic over the greater part of the Continent, but 5 to E on the Norwegian coast and at Faro, 5 in the east and southeast of England. Strong from N. and NNW. over Scotland, Ireland, Wales, the west of England and the Bay of Biscay (a hard gale at Biarritz, NE to N on the northern shores of the Mediterranean, SW over Algeria. Moderating later on our western coasts and backing W. in the northwest.

Barometer Highest (1) 30·6 ins. and more to 30·0 ins. in an anticyclone covering Russia, the Baltic, Sweden and Denmark; (2) 30·5 ins. and more to 30·0 ins. over Ireland, Portugal, the west of Spain and adjacent parts of the Atlantic. Lowest 29·6 ins. and less in a depression over the Shetlands, 29·3 ins. and less in another over the south of Italy and below 29·4 ins. in a secondary over the northern parts of Corsica and Gulf of Genoa. Rising over our Islands and France later; northern depression showing signs of dispersing.

General remarks on the Weather for 24 hours ending 8 am on Jan 17th.

Weather in morning fine and bright over Finland, Sweden and the northern half of the Baltic as well as over central France, some parts of Spain and southeastern Europe, cloudy or overcast elsewhere, with rain over the western and northwestern parts of the United Kingdom as well as on the southern side of the Mediterranean, snow over central Algeria. Sleet and rain later over the greater part of the United Kingdom – most in the northeast of Scotland – but not very heavy anywhere.

Temperature changing frequently and considerably – risen very fast over Scotland and Ireland, as well as over central Russia, fallen rapidly – to an unusually low value over France. Morning readings highest 54° at Malta, 46° to 49° in Ireland, 48° at Scilly, 45° at Nairn, 44° at Sumburgh Head. Lowest –17° to –23° F. over Finland and northern Russia, –3° to –14° over southern Russia; –11° at Munich, +1° at Wiesbaden, 2° at Paris, 6° at Berlin; 25° at Biarritz, 26° at Barcelona, 28° at Madrid and Perpignan, 29° at Armagh. Rising considerably over England and France during the day; frost giving over England.

Wind (1) strong from NW. over the northwestern and western parts of the United Kingdom, moderate from SW. in the south and east, strong from the E. over Norway, calm in Sweden; (2) blowing a gale from the E. over Dalmatia and the Adriatic, moderate NE. over the Riviera, blowing a gale from NW. at Perpignan and a W. to SW. breeze on the southern side of the Mediterranean.

Barometer Highest (1) 30·3 ins. in the northwest of Spain and ranging between that value and 30·1 ins. over the Bay of Biscay, the western and central parts of France and the extreme southwest of Ireland; (2) 30·5 ins. to 30·1 ins. over northern Europe. Lowest 29·5 ins. and less over the Shetlands and their immediate neighbourhood and 29·4 ins. and less in a well-formed depression over Corsica and the neighbouring parts of the Mediterranean. Depression over the Shetlands moving southwards rapidly 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 made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. 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, 19th January, 1893

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. Reading at 32° F. and Sea Level.	Temp. Dry Bulb.	Wind. Direc.	Force (0 to 12).	Weather.	THIS MORNING. (See note at bottom of last page.) Barometer. Reading at 32° F. and Sea Level.	Change since Yesterday Morn.	Shade Temp. Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.	Wind. Direc.	Force (0 to 12).	Weather.	Sea (0 to 9).	PAST 24 HOURS. Weather.	Shade Temp. Max	Min.	Amount of Rainfall.
		Ins.	°				Ins.		°	°	°							°	Ins.
SCANDINAVIA.	Haparanda ...	29·80	13	SW	6	S	29·64	-·44	19	19	+28	SW	6	0	*	S	?	-15	0·24
	Hernösand ...	29·93	17	S	6	0	29·83	-·13	21	20	+11	S	4	bc	*	0	21	3	0·04
	Stockholm ...	30·31	15	S	2	b	30·24	-·01	18	17	+13	SW	4	0	*	b	18	3	-
	Wisby	30·40	13	SSE	4	b	30·46	+·16	21	20	+9	SW	6	b	*	b	21	1	-
	Bodö	29·31	28	S	6	S	29·19	-·15	31	31	+14	S	4	S	2	S	31	16	-
	Christiansund...	29·65	35	SW	8	r	29·57	+·19	42	40	+5	SW	8	r	6	r	42	36	0·28
	Skudesnaes ...	29·98	37	2	0	0	30·07	+·40	43	42	+7	SW	3	0	4	r, o	43	36	-
	Christiania Fjord (Færder)	30·04	27	S	8	S	30·10	+·10	37	37	+18	SSW	5	f	4	S	37	?19	-
	Skagen (The Scaw)	30·14	18	SSW	8	S	30·25	+·15	19	19	+5	SW	4	m	3	S	27	14	0·12
	Fanö	30·21	23	S	6	0	30·36	+·24	28	28	+18	SW	4	m	*	0	28	10	-
BRITISH ISLANDS	Sumburgh Head	29·81	46	W	4	r	29·74	+·18	45	44	+1	SW	4	0	4	c, r	46	40	0·03
	Stornoway ...	30·05	48	SW	5	0	29·86	-·01	48	46	0	W	6	0	5	0	49	42	0·12
	Wick	29·98	47	NW	2	bc	29·89	+·16	47	45	+2	W	3	c	3	bc	48	43	-
	Nairn	30·07	47	NSW	3	c	29·95	+·08	46	44	-1	SW	2	c	1	c	50	40	-
	Aberdeen ...	30·10	44	NSW	3	c	30·08	+·23	41	40	-5	SSW	3	bc	3	bq, c	49	40	-
	Leith	30·17	43	W	2	c	30·16	+·19	45	43	0	NSW	2	cm	*	c	50	42	-
	Shields	30·21	44	W	4	b	30·26	+·32	41	40	-2	SW	3	c	3	bc, b	49	38	-
	Spurn Head ...	30·20	39	WNW	3	b	30·33	+·35	36	36	-3	SW	3	cmw	2	b	40	35	-
	York	30·24	43	NW	1	c	30·24	+·20	39	38	-2	S	1	bc	*	c	48	35	-
	Loughborough	30·29	42	NW	2	bc	30·40	+·31	35	35	-5	ESE	1	cf	*	bc	46	34	0·01
	Ardrossan ...	30·26	47	NSW	1	c	30·20	+·20	45	44	-1	NSW	5	c	3	c	49	43	0·01
	Malin Head ...	30·28	46	W	5	cm	30·16	·00	46	45	-1	NSW	5	0	3	0	47	44	0·03
	Mullaghmore ...	30·37	47	W	4	cm	30·28	·00	47	46	0	NSW	4	ogm	4	ogm	48	44	0·01
	Belmullet ...	30·41	48	NSW	2	0	30·31	-·06	49	48	0	SW	2	0	*	0	49	45	0·02
	Donaghadee ...	30·34	48	WNW	5	c	30·31	+·19	42	41	-5	W	4	bc	3	c	50	39	-
	Liverpool (Bidston)	30·33	42	W	5	0	30·38	+·24	42	41	0	W	2	c	2	0	45	40	-
	Holyhead ...	30·37	46	NW	4	cq	30·37	+·19	43	43	-3	SW	2	cq	2	c, cq	50	43	-
	Parsonstown ...	30·44	45	SW	1	0	30·39	+·07	46	45	0	SW	1	0	*	0	50	40	-
	Valencia	30·55	46	2	0	cm	30·49	+·04	49	48	0	SW	4	cm	4	cm	51	45	-
	Roche's Point	?30·49	47	NNW	3	bc	?30·45	+·11	44	42	-4	WNW	2	c	3	bc	50	39	-
	Pembroke (St. Ann's Hd.)	30·42	47	NW	4	c	30·45	+·19	45	44	-1	W	4	cq	4	c	48	43	-
	Scilly	30·45	49	N	4	c	30·51	+·17	47	45	-2	NW	4	c	3	c	50	44	-
	Prawle Point ...	30·40	44	NNW	4	bc	30·51	+·23	39	38	-5	NNW	2	bw	1	bc	51	38	-
	Jersey (St. Aubin's)	30·35	47	NNW	3	cm	30·49	+·24	46	45	+1	NW	3	cm	3	cm	49	43	-
	Hurst Castle ...	30·34	44	NNW	3	b	30·48	+·29	37	36	-2	NNW	3	cm	2	c, b	47	36	0·03
	Dungeness ...	30·22	38	NW	2	f	30·41	+·28	37	36	+6	N	3	f	2	f	39	30	0·16
	North Foreland	30·21	38	NW	3	omqy	30·43	+·33	38	37	+4	W	2	cf	2	r, o, qm	38	32	0·15
	London	30·30	44	NW	2	c	30·44	+·31	38	37	-4	SSW	1	bcf	*	od, b	44	34	0·08
	Oxford	30·36	43	NW	1	bc	30·46	+·31	36	35	0	W	1	og	*	c, bc	45	35	0·01
	Cambridge ...	30·27	39	NW	1	c	30·43	+·33	36	35	-1	WSW	1	o	*	c	42	34	0·01
	Yarmouth ...	30·18	38	NW	3	c	30·37	+·34	36	35	+3	WNW	2	f	4	f, c	38	31	0·11
GERMANY & HOLLAND	Cuxhaven ...	30·30	16	S	2	0	30·45	+·21	22	20	+2	ESW	2	0	*	0	22	15	-
	Berlin	30·46	-1	SE	1	b	30·60	+·30	-6	-7	-2	SE	1	b	*	b	5	-9	-
	Wiesbaden ...	*	*	*	*	*	30·55	+·30	0	-1	-2	2	0	b	*	*	14	0	-
	Munich ...	30·32	0	SE	4	b	30·40	+·29	-8	-8	-16	NW	2	m	*	b	14	-8	-
	The Helder ...	30·06	31	SSW	4	f	30·43	+·29	32	32	+10	SSE	1	f	1	f	34	21	0·08
FRANCE AND BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	30·47	+·24	25	25	+10	SSE	1	m	*	s	28	15	0·34
	Cape Gris Nez	30·22	39	NSW	2	m	30·35	+·27	38	37	+4	ENE	2	f	2	m	39	30	0·24
	Paris	30·32	24	SSE	2	0	30·44	+·19	24	24	+14	SE	2	0	*	0	?	?10	0·08
	Brest	?	49	N	5	0	?	?	46	45	-2	N	3	c	3	0	52	43	-
	Lorient	30·38	48	NNW	5	0	30·50	+·23	45	44	+1	ENE	3	c	3	0	48	43	-
	Rochefort ...	?30·30	34	S	3	r	?30·38	+·12	38	36	+11	NE	3	0	*	r	?	27	0·08
	Belfort	?	8	E	1	bc	?	?	0	0	+10	E	3	bc	*	bc	16	?-10	-
	Lyons	30·30	18	NNW	3	b	30·45	+·29	3	3	+3	S	1	b	*	b	22	0	-
	Nice	29·89	36	E	1	b	29·98	+·27	35	27	+6	E	1	b	3	b	45	29	-
	Perpignan ...	30·12	35	NW	8	b	30·17	+·17	38	33	+7	NW	3	b	*	b	40	31	-
	Biarritz	30·33	41	E	2	0	†30·42	+·19	45	42	+12	NE	5	0	3	0	?	33	0·08
PENINSULA.	Corunna	*	*	*	*	*										*			
	Lisbon	30·34	50	NNE	5	b	30·38	+·15	46	41	-2	NNE	4	b	*	b	57	45	-

For Explanation of Columns, see bottom of last page.

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

WEATHER CHARTS

for 8 a.m. on Thursday, 19th January, 1893.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

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

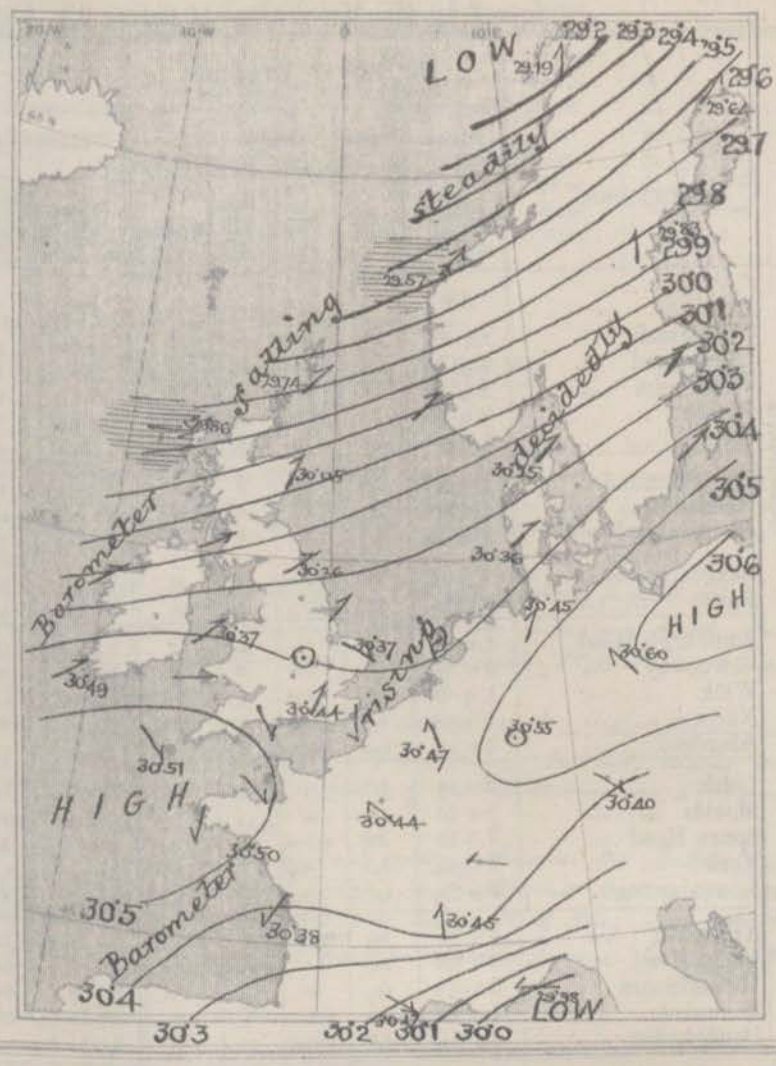
WIND.—Arrows show the prevailing winds. They fly with the wind and their barbs and feathers refer to force thus:
—— forces above 10; ——— forces 8 to 10;
——— forces 5 to 7; ——— forces 1 to 4.
0 dead calm.

SEA DISTURBANCE.—Where considerable, is shown thus:
Rough. High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of January.
During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29·675
Stornoway	29·682
Wick	29·779
Nairn	29·745
Aberdeen	29·787
Leith	29·825
Shields	29·881
Spurn Head	29·926
York	29·932
Loughborough	29·967
Ardrossan	29·838
Mullaghmore	29·817
Donaghadee	29·853
Holyhead	29·902
Liverpool	29·924
Parsonstown	29·895
Valencia	29·887
Roche's Point	29·928
Pembroke	29·949
Scilly	29·969
Prawle Point	30·006
Jersey	30·012
Hurst Castle	30·002
Dover	30·012
LONDON	30·006
Oxford	29·993
Cambridge	29·983
Yarmouth	29·979



TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE.—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shown by Letters of the Beaufort Scale.

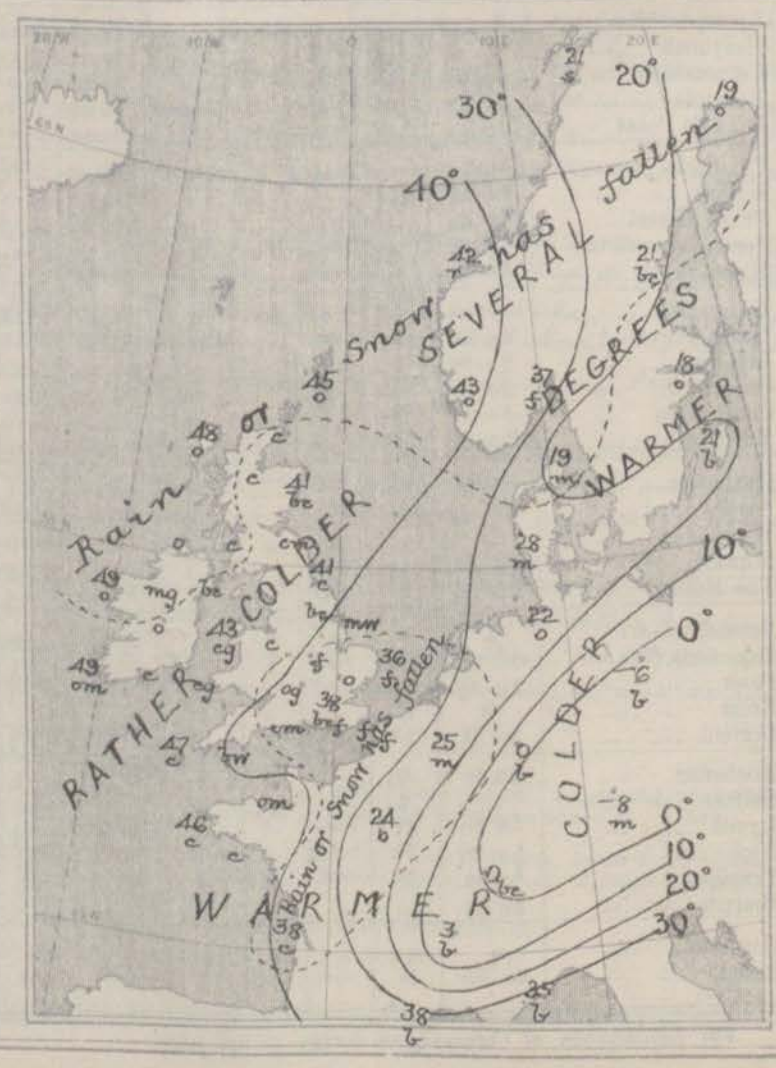
RAINFALL.—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of January.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dew.	at 8 a.m. Wet.	RAINFALL. (Inches.)
Sumburgh Head	42·9	35·6	39·7	38·4	3·72
Stornoway	43·3	34·5	39·5	38·4	5·30
Wick	42·4	33·3	38·2	36·8	2·03
Nairn	42·2	32·9	37·2	35·6	1·90
Aberdeen	42·1	33·2	37·3	35·5	2·31
Leith	44·4	32·7	38·6	37·2	1·93
Shields	43·0	34·2	38·2	36·9	1·75
Spurn Head	41·7	34·5	37·7	36·7	1·35
York	42·7	32·5	36·7	35·7	1·87
Loughborough	43·9	32·2	36·4	35·4	2·04
Ardrossan	44·2	38·3	40·6	38·8	4·25
Mullaghmore	46·1	38·0	41·6	40·4	4·36
Donaghadee	44·4	36·1	40·0	39·2	2·98
Holyhead	45·5	38·7	41·7	40·4	3·33
Liverpool	43·5	35·2	38·6	37·6	2·22
Parsonstown	45·6	34·2	38·9	37·8	3·12
Valencia	49·5	46·4	44·5	43·3	6·59
Roche's Point	47·7	39·5	42·2	41·9	5·50
Pembroke	46·5	39·6	42·7	41·3	3·75
Scilly	48·8	41·9	44·4	44·9	3·73
Prawle Point	46·2	37·6	42·6	41·0	3·09
Jersey	45·8	38·3	41·8	40·4	3·21
Hurst Castle	44·0	36·3	40·4	39·5	2·84
Dover	43·5	35·8	39·2	38·1	2·58
LONDON	44·1	36·8	37·6	36·9	2·12
Oxford	43·1	33·6	37·1	36·4	2·26
Cambridge	43·3	31·7	36·2	35·4	1·54
Yarmouth	41·5	34·8	37·5	36·7	1·95

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·5 ins: and upwards over the southwest of England and the northwest of France and also over Germany; 30·3 ins: and upwards in a large anticyclone covering nearly the whole of Ireland, England, the North Sea, Denmark, the Baltic, Germany, and the North Sea.
Lowest, 29·2 ins: and less, in a depression lying off the northwest of Norway; 30·0 ins: and less, over the Gulf of Genoa.
Gradients steep over Scandinavia and the northern parts of the North Sea, and rather steep over Scotland, but slight elsewhere.
Barometer falling in the north and extreme west of our Islands and also over the northern parts of Scandinavia, but rising elsewhere.

TEMPERATURE

Highest, 49° at Belmullet and Valencia Island, 48° at Portmorlay, and 47° at Wick, Mullaghmore, and Scilly.
Lowest, −8° F. at Munich, −6° at Berlin, 0° Zero at Wiesbaden, +3° at Lyons, 18° at Stockholm, and 19° at Haparanda and Fano.
During yesterday the thermometer over our Islands rose to between 45° and 50° at all but the extreme eastern and southeastern stations.

WIND

SW^ly over Scandinavia, Denmark, the North Sea and all but the most southern parts of the United Kingdom; light to fresh in force generally, but strong to a gale at Christiansund.
Light from the NW^ly over the English Channel, and from the NE^ly over the Bay of Biscay; variable over Germany and Central France.

WEATHER

Fair over the greater part of Western Europe, but dull in the extreme west and north of our Islands, and also in the west of Norway, with snow at Bodö, and with rain at Christiansund.
Fog is reported in the southeast of England as well as at Cape Grisnez and the Helder.
Rain fell yesterday at many of the English stations, and also in the northern parts of Ireland and Scotland.

SEA

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

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The barometer is now falling on our extreme western and northern coasts, and a depression is probably about to visit the north of Scotland. Anticyclonic conditions seem fairly well established over the southern parts of the Kingdom.

FORECASTS

For the 24 hours ending at NOON on 20th January, 1893.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
↑ 0 SCOTLAND NORTH	SW^ly winds, increasing in force; dull, some rain.	↑ 6 SCOTLAND WEST	Same as No 0
↑ 1 SCOTLAND EAST	SW^ly winds, freshening; fair generally.	7 ENGLAND N.W.	Same as No 1.
2 ENGLAND N.E.	SW^ly winds, light or moderate; fair generally.	8 ENGLAND S.W.	W^ly to SW^ly winds, light or moderate; fair generally.
3 ENGLAND EAST	Light breezes, chiefly SW^ly; fair generally, but local fogs.	↑ 9 IRELAND NORTH	Same as No 0.
4 MIDLAND COUNTIES		10 IRELAND SOUTH	SW^ly winds, freshening; dull, some rain.
5 ENGLAND SOUTH		WARNINGS	At 7.30 pm yesterday to districts 0.6. and parts of 1 and 9. Hoist South Cone.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29·79	39	38	W	2	4	6
Sumburgh Head	29·76	45	43	WNW	4	c	4
Stornoway	30·03	49	48	W	5	o	5
Aberdeen	30·00	45	44	WNW	5	bq	3
Shields	30·10	49	*46	W	4	bc	3
Ardrossan	30·18	49	46	WNW	4	c	2
Malin Head ...	30·26	47	45	WNW	5	o	4
Mullaghmore ...	30·37	48	46	NW	4	ogm	5
Belmullet	30·42	?50	48	WSW	2	o	*
Holyhead	30·30	47	46	NW	4	cq	4

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30·52	51	48	NNW	3	cm	3
Scilly	30·40	50	48	NW	5	c	3
Jersey	30·28	49	46	NW	3	om	3
Hurst Castle ...	30·25	47	45	NW	4	c	2
Dungeness... ...	30·19	36	35	WNW	2	f	1
North Foreland...	30·12	37	37	W	1	o	2
London (West-minster)	30·18	45	43	W	3	o	*
Yarmouth	30·07	37	36	W	1	rf	4
Rochefort	30·31	32	31	N	0	o	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather in morning fine and bright at some isolated stations over Portugal, the southeast of France, western Germany, and some of the shores of the Baltic, cloudy or overcast elsewhere, rainy at Stornoway and over the southeast of England, as well as at some Alpinian stations, snow in many places. Considerable rain over the Netherlands and southeast of England as well as at Stornoway, slight falls in the north of Ireland. Sky clearing over England at night.

Temperature rising over the British Islands and Europe generally. Morning reading 46° to 49° at the Irish stations and Scilly, 45° to 48° in Scotland, and above 40° on the Atlantic coasts of Europe. Much lower over the inland countries, and lowest of −18°F. at Riga and Swinemunde, −15°F. at Ulleaborg, −12° at Moscow, −5° at Kharkov, −4° at Berlin; −10° at Belfort, 0° Zero at Lyons, +10° at Nice. Rising later to 50° in several parts of Ireland and Scotland to 45° at most of the English and western French stations, 52° at Brest and 57° at Lisbon. Frost on the ground over England at night.

Wind strong from the NW^ly on the northern and western coasts of the British Islands and Brittany, light W^ly over the southeast of England, S^ly over the Netherlands and Denmark; very light and anticyclone over Russia and the central part of Germany and France; N^ly and NE^ly on the northern shores of the Adriatic and Mediterranean, N^ly to NW^ly over Algeria and Tunis, W^ly at Malta. Becoming NW^ly over England later.

Barometer highest (1) 30·8 in. and more to 30·3 in. over Russia; (2) 30·4 in. and more to 30·3 in. over the northwest of Spain, the southwest of England, and the greater part of Ireland, and still higher over the adjacent parts of the Atlantic. Lowest, 29·4 in. and less, in a large depression off the northwest of Norway, and 29·5 in. and less, in another over Sicily and the south of Italy. Rising over the United Kingdom during the day, and the rise spreading eastwards.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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DAILY WEATHER REPORT

for 8 a.m. on Friday, 20th January, 1893

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. Reading at 32° F. and Sea Level.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	THIS MORNING. (See note at bottom of last page.) Barometer. Reading at 32° F. and Sea Level.	Barometer. Change since Yesterday Morn.	Shade Temp. Dry Bulb.	Shade Temp. Wet Bulb.	Shade Temp. Change in dry since Yesterday.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	Sea (0 to 9).	PAST 24 HOURS. Weather.	Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
		Ins.	°				Ins.		°	°	°							°	Ins.
SCANDINAVIA.	Haparanda ...	29.39	28	SW	8	S	29.82	-.32	31	30	+ 12	SW	4	0	*	8	31	12	0.08
	Hernösand ...	29.60	36	S	6	c	29.47	-.36	33	28	+ 12	Z	0	f	*	c	36	14	-
	Stockholm ...	30.13	29	SSW	4	0	29.80	-.44	27	26	+ 9	SSW	8	0	*	0	30	12	-
	Wisby	30.36	25	SSW	6	b	29.99	-.47	25	24	+ 4	SSW	8	bc	*	b	27	5	-
	Bodö	29.06	35	S	2	m	29.81	-.18	32	31	+ 1	W	7	m	4	m	36	30	-
	Christiansund...	29.47	38	WSW	8	S	29.29	-.28	32	30	- 10	WSW	7	S	6	S	45	30	0.47
	Skudesnaes ...	29.85	40	W	6	r	29.70	-.37	38	33	- 5	W	7	0	6	o m.r	43	34	-
	Christiania Fjord (Færder)	29.94	36	SSW	7	m	29.69	-.41	35	33	- 2	WSW	5	b	4	m	37	34	-
	Skagen (The Scaw)	30.06	33	SW	7	m	29.86	-.39	34	33	+ 15	WSW	3	bc	2	m	34	19	-
	Fanö	30.25	30	SW	6	0	30.01	-.35	34	34	+ 6	SW	2	f	*	0	34	28	-
BRITISH ISLANDS	Sumburgh Head	29.73	36	W	4	*	29.57	-.47	31	31	- 14	WNW	4	0	6	0	47	30	0.18
	Stornoway ...	29.96	41	NW	4	0	29.94	+.08	37	36	- 11	NW	6	o ph	5	r.o	48	34	0.12
	Wick	29.89	39	NW	4	c	†29.80	-.09	34	32	- 13	WNW	9	o prsh	6	c.prsh	49	32	0.08
	Nairn	29.97	40	W	4	b	29.93	-.02	36	34	- 10	WNW	4	bc	1	b	52	33	0.09
	Aberdeen ...	30.00	42	NW	4	o g q r	29.97	-.11	37	34	- 4	W	4	bcq	3	o q r	48	36	0.07
	Leith	30.04	45	WSW	4	0	30.11	-.05	39	37	- 6	W	4	r	*	0	49	37	0.01
	Shields	30.15	47	SW	2	cm	30.14	-.12	38	36	- 3	SW	3	c	2	o.m.r	49	35	0.05
	Spurn Head ...	30.28	40	SW	3	o g m	30.24	-.09	36	35	0	W	3	c m	2	o g m	40	35	-
	York	30.28	43	S	1	0	30.26	+.02	37	35	- 2	SSW	1	bc	*	0	44	35	-
	Loughborough	30.36	43	SW	2	0	30.34	-.06	36	35	+ 1	WNW	2	c	*	0	45	34	0.01
	Ardrossan ...	30.11	47	WSW	4	r	30.19	-.01	42	40	- 3	WNW	7	bc q p	4	o, r	48	39	0.07
	Malin Head ...	30.15	45	W	5	o d p	30.25	+.09	43	41	- 3	NW	6	o q p	4	o d p	47	41	0.07
	Mullaghmore ...	30.27	46	W	4	or	30.40	+.12	43	41	- 4	WNW	5	c q p	4	o p m	49	42	0.04
	Belmullet ...	30.32	48	W	3	0	30.45	+.14	43	41	- 4	WNW	2	b	*	o p.o	50	43	0.03
	Donaghadee ...	30.22	50	NW	3	c	30.31	.00	40	38	- 2	WNW	4	b	2	c	51	38	0.01
	Liverpool (Ridston)	30.30	46	WSW	4	0	30.35	-.03	39	37	- 3	WSW	4	c	3	0	47	38	0.05
	Holyhead ...	30.32	46	NSW	3	c	30.38	+.01	42	40	- 1	WNW	3	bc	2	c	48	41	0.01
	Parsonstown ...	30.36	48	SW	1	0	30.47	+.08	40	38	- 6	SW	1	0	*	0	50	38	0.02
	Valencia	30.48	50	SW	4	o m	30.56	+.07	44	42	- 5	NNW	1	0	1	o g m	51	43	0.01
	Roche's Point	30.42	49	W	3	c	30.53	+.04	43	42	- 1	NW	1	c	3	c	51	40	-
	Pembroke (St. Ann's Hd.)	30.40	47	W	3	c	30.44	-.01	42	39	- 3	NNW	3	b	3	c	48	41	0.02
	Scilly	30.46	50	WNW	5	c	30.46	-.05	50	48	+ 3	WNW	4	0	3	c	50	44	-
	Prawle Point ...	30.46	44	NW	2	bc	30.44	-.07	43	43	+ 6	NNW	3	c	2	bc, p	46	37	0.03
	Jersey (St. Aubin's)	30.46	47	NW	3	0	30.43	-.06	47	46	+ 1	WNW	3	o p m	3	c m.o	49	44	0.05
	Hurst Castle ...	30.44	40	NW	3	c	30.39	-.09	43	42	+ 6	WNW	1	cm	2	cm	45	36	-
	Dungeness ...	30.38	41	Z	0	m	30.31	-.10	38	38	+ 1	W	2	r	1	m	42	36	0.02
	North Foreland	30.38	39	NW	1	c g f	30.29	-.14	40	39	+ 2	WNW	3	o g m	2	c g f	41	35	0.01
	London	30.40	39	W	1	o m	30.36	-.08	38	38	0	W	1	o m	*	c f. b	41	37	-
	Oxford	30.39	39	W	1	b	30.38	-.08	38	37	+ 2	SW	1	b c f	*	o, p. b	41	36	0.01
	Cambridge ...	30.38	36	W	1	b	30.34	-.09	39	38	+ 3	NW	1	c	*	b	42	33	-
	Yarmouth ...	30.33	37	WNW	2	b c m	30.26	-.11	37	36	+ 1	WNW	3	b c f	3	b c f. m	38	35	0.02
GERMANY & HOLLAND	Cuxhaven ...	30.48	21	SSW	3	0	30.14	-.31	29	28	+ 7	SW	5	f	*	0	29	21	-
	Berlin	30.55	5	SE	2	b	30.86	-.24	4	4	+ 10	E	1	b	*	b	7	-6	-
	Wiesbaden ...	*	*	*	*	*	30.45	-.10	-1	-1	- 1	N	1	b	*	*	14	-1	-
	Munich ...	30.36	-1	E	2	b	30.34	-.06	2	1	+ 10	SW	4	f	*	b	3	-8	-
	The Helder ...	30.39	33	SSW	4	f	30.23	-.20	37	37	+ 5	WSW	4	f	3	f	37	32	0.08
BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	30.37	-.10	30	29	+ 5	SW	4	0	*	0	30	25	-
	Cape Gris Nez	30.36	37	SSW	1	f	30.30	-.05	38	38	0	SSW	3	?	3	f	39	34	0.04
	Paris	30.46	28	SSE	2	0	30.43	-.01	28	27	+ 4	SSE	2	0	*	0	30	?	-
	Brest	?	48	N	2	b	?	?	49	47	+ 3	N	2	0	2	0	52	46	0.04
	Lorient	30.47	48	NNW	2	0	30.45	-.05	46	45	+ 1	N	3	f	2	0	50	45	-
FRANCE AND	Rochefort ...	30.41	38	NNW	3	m	30.41	+.03	35	35	- 3	ESE	1	f	*	m	39	34	-
	Belfort	?	8	NNE	3	bc	?	?	1	0	+ 1	NW	3	bc	*	bc	16	?	-
	Lyons	30.47	9	Z	*	b	30.50	+.05	4	3	+ 1	N	1	b	*	b	17	3	-
	Nice	30.30	42	Z	0	b	30.10	+.12	34	28	- 1	ENE	3	b	2	b	50	32	-
	Perpignan ...	30.26	39	NW	4	b	30.25	+.08	39	34	+ 1	NW	4	b	*	b	44	36	-
	Biarritz	30.43	42	NE	3	m	30.42	.00	39	38	- 6	ENE	3	f	3	m	46	36	0.04
PENINSULA.	Corunna	*	*	*	*	*										*			
	Lisbon	30.34	49	NNE	4	b	30.39	+.01	45	42	- 1	NNE	4	b	*	b	55	45	-

For Explanation of Columns, see bottom of last page.

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

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·5 in. and more to 30·4 in. in an anticyclone spreading in from the Atlantic over the southwestern part of the United Kingdom, the Bay of Biscay and France.
Lowest, 29·0 in. to 29·3 in. over the northern part of Scandinavia, and rather below 30·1 in. over the northwestern portion of the Mediterranean.
Gradients steep over Sweden, Norway, and Scotland, slight over the southern and southwestern parts of our area.
Barometer falling in the north and east, rising in the west and southwest.

TEMPERATURE

Highest, 50° at Scilly, 40° to 49° on our southwestern and western coasts as a whole and on the coasts of Brittany.
Lowest, (1) −1° at Wiesbaden, +2° at Munich, 4° at Berlin, (2) 25° at Wisby, 27° at Stockholm, and 31° at Haparanda.
It rose to 51° at many of our southwestern stations yesterday and to between 41° and 42° over the southeast of England.

WIND

W½ – strong to a gale in Norway and the north of Scotland; SW½ on the eastern shores of the North Sea; S½, a gale, over the Baltic. It is NW½, light, on our southwestern coasts; N½ to E½ over Brittany and the Bay of Biscay, very light and variable over France. The W½ gale is strong at Caithness.

WEATHER

Squally and very unsettled in the north and northeast, with sleet and hail showers in many places, fair as a whole in the west and southwest, dull and misty in the southeast, with rain at Bergen. Fog prevails on the Dutch coast and at Cuxhaven.
Showers have fallen in most parts of the United Kingdom, but have been slight. Aurora was seen at Aberdeen last night.

SEA

Very rough in the north, moderate in the northwest, slight to smooth in the Irish and English Channels.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The gale in the north will probably subside gradually without extending southwards, and some decrease of temperature is likely to occur over England.

FORECASTS

For the 24 hours ending at NOON on 21st January, 1893.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
↓ 0 SCOTLAND NORTH	NW½ gales, moderating later; squally, showery.	↓ 6 SCOTLAND WEST	Same as No 0
↓ 1 SCOTLAND EAST	W½ to NW½ winds, freshening considerably; squally, showery.	7 ENGLAND N.W.	Same as No 1 and 2
2 ENGLAND N.E.		8 ENGLAND S.W.	NW½ and N½ winds, moderate; fair generally.
3 ENGLAND EAST	Same as No 5.	↓ 9 IRELAND NORTH	NW½ winds, strong; squally, showery.
4 MIDLAND COUNTIES		10 IRELAND SOUTH	Same as No 8.
5 ENGLAND SOUTH	W½ to NW½ winds, moderate; fair to showery.	WARNINGS	The SOUTH CONE is still flying in districts 0.6. and parts of 1 and 9.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·01	42	41	SSW	4	cm	4
Sumburgh Head	29·66	42	40	W	4	o	4
Stornoway	29·91	42	40	NW	6	r	5
Aberdeen	29·94	46	44	SW	3	c	3
Shields	30·21	48	45	SW	3	o	2
Ardrossan	30·12	48	47	WSW	4	o	3
Malin Head ...	30·13	47	46	WSW	6	o	4
Mullaghmore ...	30·26	49	48	SW	4	omp	4
Belmullet	30·28	50	49	SW	3	op	*
Holyhead	30·34	47	46	WSW	3	c	2

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30·49	51	49	SW	5	ogm	4
Scilly	30·49	50	49	WNW	4	c	3
Jersey	30·45	49	47	WNW	3	c	3
Hurst Castle ...	30·43	45	43	NW	3	cm	2
Dungeness... ...	30·39	42	41	N	0	m	0
North Foreland...	30·40	41	40	NW	1	c	2
London (West) (East)	30·42	44	42	W	1	f	*
Yarmouth	30·34	38	37	NW	3	bcf	3
Rochefort	30·36	39	38	NNW	3	m	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather in morning fine and bright over southeastern, southern, and southwestern Europe, fair over the northeastern part of Gt. Britain and in Sweden, foggy over the southeast of England; cloudy or overcast elsewhere, with snow in Finland and Austria, rain at Palermo. Some rain or sleet over the greater part of our Islands and the North Sea during day, but amounts small.

Temperature risen rapidly over northern Europe, & quickly over France, fallen fast over South Germany, Austria, and the south of Russia. Morning reading exceeding 50° at Avon and Nemours only, but as high as 42° to 49° at nearly all stations in the west of our Islands and on the Atlantic shores of Europe; lowest (1) −20° at Riga, −12° at Kharkov, −11° at Moscow, −2° at Kiev; (2) −8° at Munich −6° at Berlin, 0° Zero at Wiesbaden; 24° at Paris. Rising later to 45° or more over the greater part of our Islands, to 51° on our southwest coast, to 52° at Kent, and 55° at Jersey.

Wind W³ over the greater part of our Islands, and blowing freshly at the northwestern stations, SW³ over Scandinavia, S³ in Lapland and Finland; light and variable over Russia and Central Europe; NE³ to N³ over the southern coasts generally, but W³ at Malta. Veering to NW. in Scotland later.

Barometer highest, 30·9 in. and more to 30·5 in. over Central Russia, Poland, and Germany; rather above 30·5 in. over Brittany, the southwest of England, and adjacent parts of the Atlantic. Lowest 29·2 in. to 29·5 in. over Lapland and the northern part of Norway; 29·6 in. to 29·8 in. over the southeastern part of the Mediterranean and the south of Italy. Gradients steep both in the extreme north and extreme south of Europe, slight elsewhere. Falling rather decidedly over Scandinavia 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 made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. 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, 21st January, 1893

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. Reading at 32° F. and Sea Level.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	THIS MORNING. (See note at bottom of last page.) Barometer. Reading at 32° F. and Sea Level.	Barometer. Change since Yesterday Morn.	Shade Temp. Dry Bulb.	Shade Temp. Wet Bulb.	Shade Temp. Change in dry since Yesterday.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	Sea (0 to 9).	PAST 24 HOURS. Weather.	Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
		Ins.	°				Ins.		°	°	°							°	ins.
SCANDINAVIA.	Haparanda ...	29.26	30	SW	6	0	29.45	+.13	17	17	− 14	Z	0	bc	*	0	32	?	-
	Hernösand ...	29.41	27	S	2	b	29.60	+.13	11	10	− 22	Z	0	b	*	b	37	?	-
	Stockholm ...	29.62	28	SW	2	bc	29.57	−.23	28	27	+ 1	Z	0	0	*	bc	32	21	-
	Wisby	29.72	28	SSW	6	0	29.58	−.41	30	29	+ 5	SSE	4	S	*	0	30	14	0.20
	Bodö	29.12	31	SSW	4	0	29.43	+.42	28	27	− 4	WSW	6	bc	3	0	32	27	-
	Christiansund...	29.39	31	WSW	9	S	29.78	+.49	28	26	− 4	WNW	7	S	6	S	34	25	0.24
	Skudesnaes ...	29.72	32	NW	8	bc	29.88	+.18	27	25	− 11	NNW	5	0	4	bc	38	25	-
	Christiania Fjord (Faerder)	29.50	32	NNW	3	c	29.70	+.01	28	24	− 7	NNW	4	c	3	c	36	27	-
	Skagen (The Scaw)	29.53	30	W	3	bc	29.67	−.19	32	29	− 2	N	5	c	3	bc	36	30	-
	Fanö	29.77	29	NW	6	c	29.83	−.18	30	29	− 4	NW	6	b	*	h.s p. c	36	27	0.12
BRITISH ISLANDS	Sumburgh Head	29.86	27	NW	7	S	30.13	+.36	28	26	− 3	N	3	0	5	S	34	25	0.06
	Stornoway ...	30.21	35	N	4	S	30.30	+.36	38	37	+ 1	W	2	0	4	S	40	33	0.06
	Wick	30.01	32	NW	9	8	30.20	+.40	33	31	− 1	N	4	0	3	p h s	42	28	0.15
	Nairn	30.17	35	?E	4	c	30.28	+.35	37	36	+ 1	?E	3	0	2	c	39	31	0.06
	Aberdeen ...	30.14	33	NW	7	bcq	30.25	+.28	33	32	− 4	NNW	3	ogrzp	3	s.oq	39	31	0.23
	Leith	30.23	35	WNW	4	b	30.27	+.16	40	36	+ 1	W	2	0	*	b	43	34	0.01
	Shields	30.22	38	WNW	2	b	30.22	+.08	37	35	− 1	WNW	4	c	3	c. b	44	32	-
	Spurn Head ...	30.22	40	WNW	5	b	30.22	−.02	38	36	+ 2	WNW	5	c	5	b	40	34	-
	York	30.26	40	NW	3	b	30.30	+.04	40	36	+ 3	NW	3	bc	*	b	45	34	-
	Loughborough	30.36	40	NW	3	c	30.37	+.03	39	37	+ 3	NW	4	cqu	*	c	43	34	-
	Ardrossan ...	30.31	41	WNW	4	b	30.35	+.16	42	41	0	NW	3	c	2	bcq.b	43	36	0.06
	Malin Head ...	30.39	42	NNW	5	op	30.43	+.18	44	42	+ 1	NW	5	op	4	c.op	44	42	0.01
	Mullaghmore ...	30.49	43	WNW	5	c	30.52	+.12	44	43	+ 1	WNW	5	op	4	cqp	46	41	0.05
	Belmullet ...	30.55	44	NW	2	b	30.58	+.13	45	44	0	W	2	bc	*	b	50	41	0.02
	Donaghadee ...	30.41	40	W	5	b	30.45	+.14	40	38	0	W	4	bc	2	b	45	39	0.01
	Liverpool (Bidston)	30.39	40	W	8	b	30.42	+.07	40	39	+ 1	W	7	c	3	b	43	38	-
	Holyhead ...	30.43	43	NW	4	b	30.47	+.09	41	40	− 1	WNW	4	c	4	b	45	40	-
	Parsonstown ...	30.54	42	Z	0	bc	30.58	+.11	40	39	0	Z	0	0	*	bc	47	35	-
	Valencia	30.64	46	Z	0	cm	30.66	+.10	44	43	0	Z	0	cq	1	cm.om	48	43	-
	Roche's Point	30.60	43	NW	3	b	30.62	+.09	43	41	0	WNW	2	c	3	b	47	40	-
	Pembroke (St. Ann's Hd.)	30.50	44	NW	3	c	30.57	+.13	44	41	+ 2	NW	4	cqp	4	c	46	41	-
	Scilly	30.55	47	NNW	4	b	30.59	+.13	47	42	− 3	NNW	4	bc	3	c. b	50	41	-
	Prawle Point ...	30.53	38	NW	2	b	30.58	+.14	37	37	− 8	WNW	2	b	1	b	49	36	-
	Jersey (St. Aubin's)	30.50	45	NW	3	cmq	30.57	+.14	43	40	− 4	NW	3	bcm	3	opm	50	41	0.01
	Hurst Castle ...	30.48	38	NW	3	bc	30.49	+.10	37	37	− 6	WNW	3	c	2	bc	45	37	-
	Dungeness ...	30.35	37	WNW	3	bm	30.35	+.04	37	35	− 1	WNW	4	c	3	m. bm	43	32	0.01
	North Foreland	30.33	39	NW	5	cq	30.29	.00	36	31	− 4	WNW	6	bcq	3	bcq	41	34	-
	London	30.39	38	WNW	2	bm	30.41	+.05	37	35	− 1	WNW	2	c	*	cf.c.b	43	34	-
	Oxford	30.44	38	W	1	b	30.43	+.05	38	35	0	W	1	c	*	b	44	35	-
	Cambridge ...	30.34	40	NW	1	b	30.35	+.01	37	35	− 2	W	2	b	*	c.b	44	32	-
	Yarmouth ...	30.22	37	WNW	4	bcm	30.20	−.06	36	35	− 1	WNW	6	bq	4	bcf.bc	40	31	-
GERMANY & HOLLAND	Cuxhaven ...	30.03	31	W	4	S	29.88	−.26	31	31	+ 2	NNW	5	S	*	S	34	29	-
	Berlin	30.04	23	SW	3	0	29.84	−.52	27	26	+ 23	WNW	3	bc	*	0	30	4	0.16
	Wiesbaden ...	*	*	*	*	*	30.17	−.28	30	29	+ 31	W	2	bc	*	*	32	−1	0.08
	Munich ...	30.28	4	SW	3	b	30.10	−.24	24	24	+ 22	SW	8	S	*	b	25	1	-
	The Helder ...	30.15	35	WNW	9	S	30.11	−.12	33	33	− 4	NNW	2	S	3	S	39	32	0.39
FRANCE AND BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	30.29	−.08	31	30	+ 1	NSW	4	c	*	b	34	28	0.04
	Cape Gris Nez	30.32	39	WNW	4	m	30.32	+.02	37	36	− 1	W	5	o	5	m	41	36	0.08
	Paris	30.41	34	S	2	0	30.45	+.02	34	33	+ 6	WNW	2	o	*	o	35	29	-
	Brest	?	48	N	3	o	?	?	45	42	− 4	N	2	c	3	o	52	41	-
	Lorient	30.51	50	NW	3	c	30.61	+.16	44	41	− 2	NW	3	o	2	c	52	43	-
	Rochefort ...	30.49	40	NNW	2	m	30.52	+.11	36	34	+ 1	ENE	3	bc	*	f.m	48	32	0.08
	Belfort	?	8	W	2	bc	?	?	23	22	+ 22	NE	5	b	*	bc	23	1	-
	Lyons														*				
	Nice	30.10	40	E	1	b	30.03	−.07	36	35	+ 2	ENE	2	b	2	b	52	34	-
	Perpignan ...	30.31	43	NW	5	b	30.34	+.09	45	39	+ 6	NW	5	b	*	b	46	39	-
	Biarritz	30.51	42	ENE	3	m	30.50	+.08	45	43	+ 6	NSW	5	r	2	m	?	37	0.08
PENINSULA.	Corunna	*	*	*	*	*													
	Lisbon	30.42	49	N	4	b	30.53	+.14	44	40	− 1	NNE	5	b	*	b	57	43	-

For Explanation of Columns, see bottom of last page.

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

WEATHER CHARTS

for 8 a.m. on Friday, 20th January, 1893.

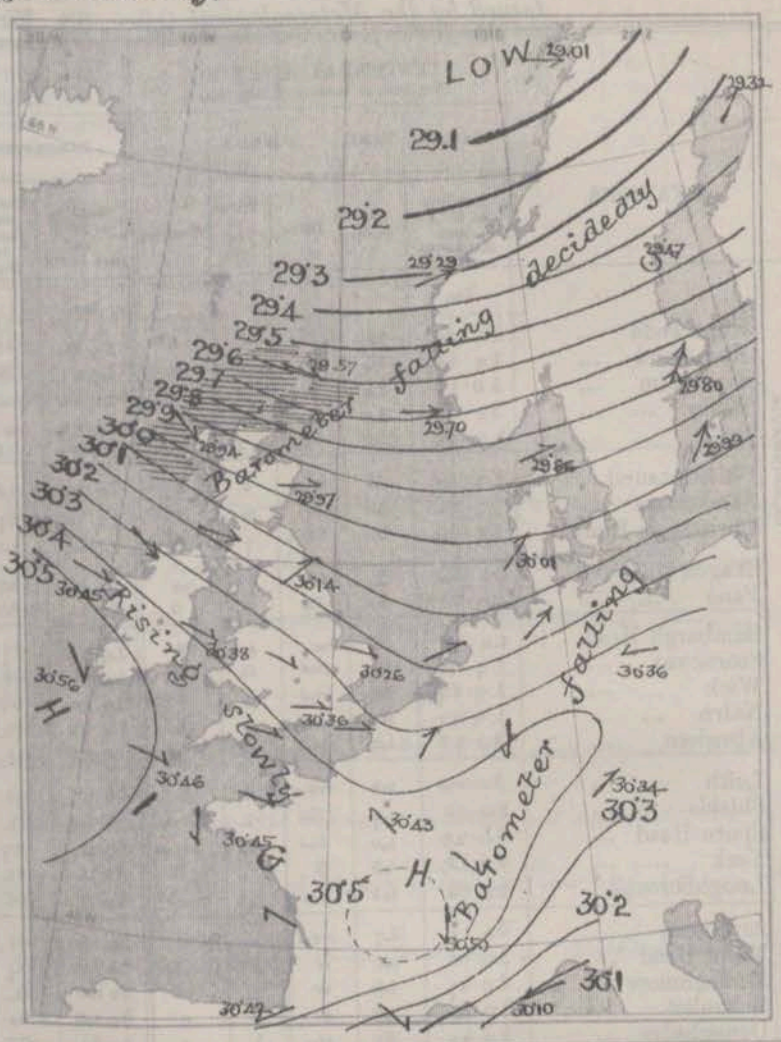
BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

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

WIND—*Arrows show the prevailing winds. They fly with the wind and their barbs and feathers refer to force thus—*
forces above 10; forces 8 to 10; forces 5 to 7; forces 1 to 4; = dead calm.

SEA DISTURBANCE—*Where considerable, is shown thus* = *Rough* = *High.*



MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of January.
During the 20 Years: 1871—1890.

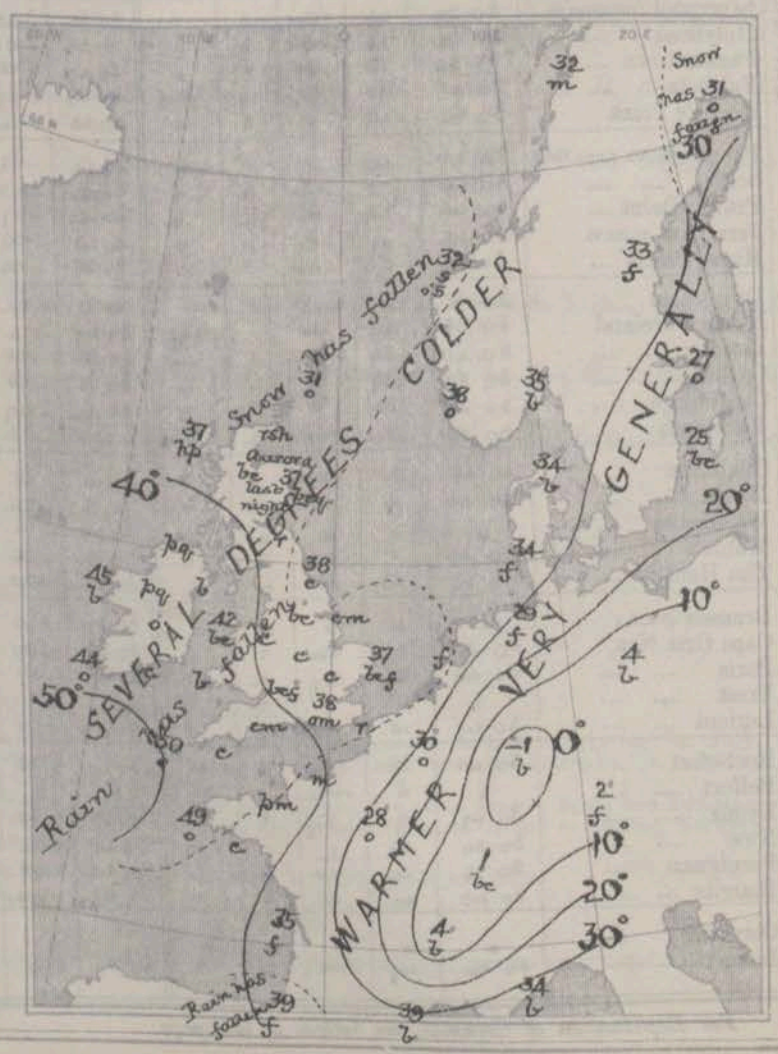
STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29·675
Stornoway	29·682
Wick	29·719
Nairn	29·748
Aberdeen	29·787
Leith	29·835
Shields	29·881
Spurn Head	29·926
York	29·932
Loughborough	29·967
Ardrossan	29·838
Mullaghmore	29·817
Donaghadee	29·853
Holyhead	29·902
Liverpool	29·924
Parsonstown	29·895
Valencia	29·887
Roche's Point	29·908
Pembroke	29·936
Scilly	29·969
Prawle Point	30·008
Jersey	30·012
Hurst Castle	30·002
Dover	30·014
LONDON	30·006
Oxford	29·999
Cambridge	29·998
Yarmouth	30·079

TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE—*Isotherms are drawn for each 10°. Changes since previous morning are stated in words.*

WEATHER *is shown by Letters of the Beaufort Scale.*

RAINFALL—*A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.*



MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of January.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	RAINFALL. (inches.)
Sumburgh Head	42·9	35·6	39·7	38·4	3·72
Stornoway	43·3	34·5	39·5	38·4	5·30
Wick	42·4	33·8	38·2	36·8	2·05
Nairn	42·2	32·9	37·2	35·6	1·99
Aberdeen	42·4	33·2	37·3	35·6	2·31
Leith	44·4	33·7	38·6	37·2	1·93
Shields	43·0	34·2	38·2	36·9	1·75
Spurn Head	41·7	34·5	37·7	36·7	1·35
York	42·7	32·5	36·7	35·7	1·87
Loughborough	43·0	32·3	36·4	35·4	2·04
Ardrossan	44·2	36·3	40·0	38·3	4·25
Mullaghmore	46·1	38·0	41·6	40·4	4·36
Donaghadee	44·4	36·1	40·0	39·2	2·98
Holyhead	45·6	38·7	41·7	40·3	3·33
Liverpool	43·5	35·2	38·6	37·6	2·32
Parsonstown	45·6	34·2	38·9	37·8	3·12
Valencia	49·5	40·8	44·5	43·3	6·69
Roche's Point	47·2	39·5	43·2	41·6	3·59
Pembroke	45·5	39·8	42·7	41·3	3·75
Scilly	46·8	42·9	46·1	44·9	3·73
Prawle Point	46·2	37·6	42·0	41·0	3·09
Jersey	45·8	38·3	41·8	40·4	3·21
Hurst Castle	45·0	36·3	40·3	39·5	2·94
Dover	43·5	35·8	39·2	38·1	2·58
LONDON	44·1	35·8	39·6	38·0	2·12
Oxford	43·1	33·6	37·1	36·1	3·26
Cambridge	43·3	31·7	36·2	35·4	1·51
Yarmouth	41·5	34·8	37·5	36·7	1·95

NOTE. *The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.*

WEATHER CHARTS

for 8 a.m. on Saturday, 21st Jan.y 1893.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

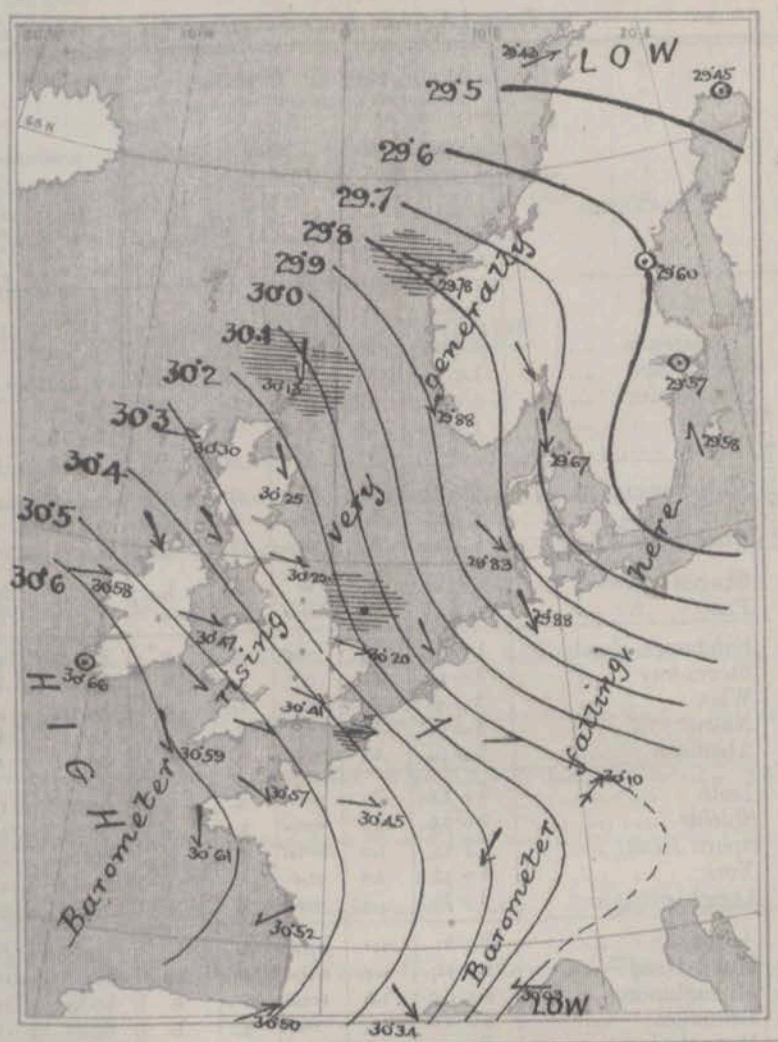
BAROMETER—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

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

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

SEA DISTURBANCE—Where considerable, is shewn thus:

= Rough. = High.



MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of January.
During the 20 Years: 1871—1890.

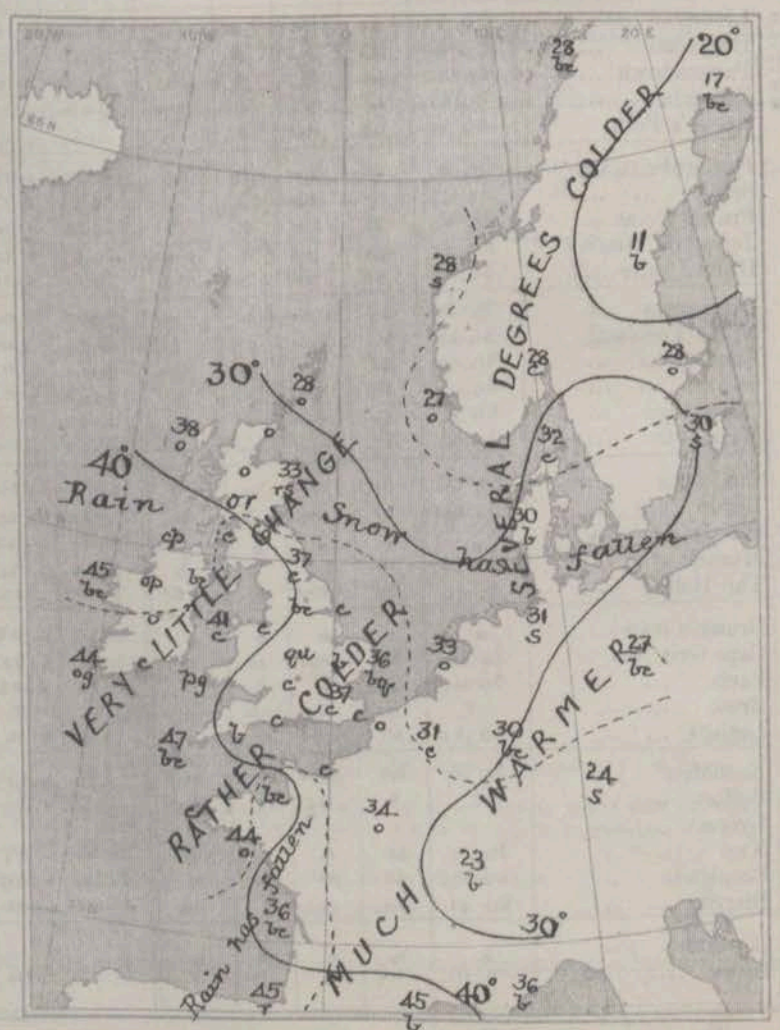
STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29·675
Stornoway	29·682
Wick	29·719
Nairn	29·743
Aberdeen	29·787
Leith	29·825
Shields	29·881
Spurn Head	29·926
York	29·932
Loughborough	29·957
Ardrossan	29·838
Mullaghmore	29·817
Donaghadee	29·850
Holyhead	29·902
Liverpool	29·924
Parsonstown	29·895
Valencia	29·887
Roche's Point	29·908
Pembroke	29·936
Scilly	29·969
Prawle Point	30·006
Jersey	30·012
Hurst Castle	30·002
Dover	30·012
LONDON	30·006
Oxford	29·999
Cambridge	29·993
Yarmouth	29·979

TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.



MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of January.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	RAINFALL. (Inches.)
Sumburgh Head	42·9	35·6	39·7	38·4	3·72
Stornoway	43·3	34·5	39·5	38·4	5·36
Wick	42·4	35·3	38·2	36·8	2·95
Nairn	42·2	32·9	37·2	35·6	1·99
Aberdeen	42·4	33·2	37·3	35·6	2·31
Leith	44·4	33·7	38·6	37·2	1·93
Shields	43·0	34·2	38·2	36·9	1·75
Spurn Head	41·7	34·5	37·7	36·7	1·35
York	42·7	32·5	36·7	35·7	1·87
Loughborough	43·0	34·3	36·4	35·4	2·04
Ardrossan	41·2	36·3	40·0	38·8	4·25
Mullaghmore	46·1	38·0	41·6	40·4	4·36
Donaghadee	44·4	36·1	40·0	39·2	2·98
Holyhead	45·6	38·7	41·7	40·3	3·38
Liverpool	43·5	35·2	38·6	37·0	2·22
Parsonstown	45·6	34·2	38·9	37·8	3·12
Valencia	49·4	40·4	44·5	43·3	6·69
Roche's Point	47·7	39·5	43·2	41·9	5·50
Pembroke	45·5	39·6	42·7	41·3	3·75
Scilly	48·8	42·9	46·4	44·9	3·73
Prawle Point	46·2	37·6	42·0	41·0	3·69
Jersey	45·8	38·3	41·8	40·4	3·21
Hurst Castle	45·0	36·3	40·3	39·5	2·94
Dover	43·5	35·8	39·2	38·1	2·58
LONDON	44·1	34·8	37·6	36·6	2·12
Oxford	43·1	33·6	37·1	36·1	2·26
Cambridge	43·3	31·7	36·2	35·4	1·54
Yarmouth	41·5	33·8	37·5	36·7	1·95

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·6 ins: and upwards in an anticyclone extending from the Atlantic on the south of Ireland and the Bay of Biscay.
Lowest, 29·5 ins: and less, in the north of Scandinavia; 29·6 ins: and less, over the Baltic and the south of Sweden.
Gradients slight generally.
Barometer falling in Germany and the southern part of Sweden and France, but rising elsewhere.

TEMPERATURE

Highest, 47° at Scilly, 45° at Belmullet, Brest, and Biarritz, and 44° at Malin Hd. Mullaghmore, Valencia Island, Pembroke, Lorient, and Lisbon.
Lowest, 11° at Haparanda, 17° at Haparanda, 23° at Belfort, 24° at Munich, and 27° at Skudesnaes and Berlin.
Frost occurred last night in many part of Gt Britain. A great rise of temperature has taken place in Germany.

WIND

Light to fresh from the W.ward or NW.ward over our Islands, the Netherlands, and the north of France.
Strong from the NW.ward on the eastern shores of the North Sea, but calm in Sweden.
Variable over the southern part of France.

WEATHER

Fair over the greater part of England, but dull in Ireland and Scotland, with passing showers at Malin Hd and Mullaghmore, and with sleet at Aberdeen.
Variable on the Continent; fine in many places, but dull in others; snow is falling at some of the Scandinavian and German stations, as well as at the Helder.
Snow hail or rain fell yesterday over nearly the whole of Scotland and the north of Ireland.

SEA

Moderate to smooth generally, but rough at Christiansund and rather rough at Sumburgh Hd., Spurn Head and Cape Gris Nez.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The barometer is at present rising in all parts of the United Kingdom, but the wind is backing in the extreme northwest so that another disturbance may possibly appear shortly off our northern coasts.

FORECASTS

For the 24 hours ending at NOON on 22nd JAN.y 1893.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	Wind backing to the W.ward and increasing in force; dull, some snow.
2 ENGLAND N.E.	NW.ly to W.ly winds, moderate or fresh; fair to showery.
3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	NW.ly to W.ly winds, light or moderate; fair generally.

DISTRICTS.	FORECASTS.
6 SCOTLAND WEST	Same as No 0 and 1.
7 ENGLAND N.W.	W.ly winds, fresh or strong; fair to showery.
8 ENGLAND S.W.	NW.ly winds, light or moderate; fair generally.
9 IRELAND NORTH	W.ly winds, increasing in force; dull, some rain.
10 IRELAND SOUTH	Same as No 8.
WARNINGS	NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29·84	32	31	nw	7	s	6
Sumburgh Head	29·71	28	26	nw	6	c	6
Stornoway	30·11	35	34	n	7	s	6
Aberdeen	30·00	33	32	wnw	8	og	4
Shields	30·12	43	40	wnw	4	c	3
Ardrossan	30·24	43	39	wnw	6	bc	4
Malin Head ...	30·31	43	40	nw	6	c	5
Mullaghmore ...	30·44	43	41	wnw	6	c g	5
Belmullet	30·50	46	42	wnw	3	b	*
Holyhead	30·40	44	42	wnw	4	b	4
Valencia	30·60	48	45	n	2	cm	2
Scilly	30·51	49	46	nnw	4	c	3
Jersey	30·45	50	48	wnw	3	o	3
Hurst Castle ...	30·41	45	42	ne	4	bc	2
Dungeness	30·34	41	39	n	2	m	1
North Foreland...	30·30	41	38	nw	4	bc	3
London (westminster)	30·37	44	40	w	2	bc	*
Yarmouth	30·34	40	37	wnw	3	bcf	3
Rochefort	30·45	48	40	s	0	f	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather in morning fine and bright over southeastern, southern, and southwestern Europe, fair as a whole over the greater part of France, England, and Ireland (but hazy in places) dull and unsettled over the northern countries, with rain, sleet or hail in several places, snow at Hangö, Copenhagen, and Breslau. Sleet and rain over the northwestern and northern parts of the United Kingdom later, as well as in the Netherlands and North Germany; small quantities of rain in the southwest of France also.

Temperature rises somewhat over the Channel, France, and south Germany, and rises very rapidly over Northern Finland and the northwest of Russia. Morning readings ranging between 40° and 50° over Algeria and on the Atlantic coast of Europe and the British Isles, as well as over the western half of the Channel; exceeding 35° over nearly the whole of our Islands, much lower elsewhere. Lowest −1° to −9° over Central and southern Russia and in Poland, −1° at Wiesbaden, +1° at Cracow and Belfast, 3° at Breslau, 4° at Berlin and Lyons, 28° at Paris. Rising later to 40° and more at nearly all our stations, to 45° and more in Ireland to 50° at Nice — still cold over Central Europe.

Wind (1) W. strong to a gale over Norway and Scotland, NW., moderate in Ireland, W., light, over the eastern half of England, SW. on the eastern shores of the North Sea, S. (a gale) over the Baltic; (2) NE. over southeastern Europe, N. over Italy (a gale in places), NW. over Tunis; (3) very light and variable over Russia, central Europe and France. Veering NW. in Scotland and at Skudesnaes later, and blowing very hard from WSW. at Christiansund.

Barometer highest 30·8 in: and more to 30·5 in: over Russia, Poland and Hungary, and 30·5 in: and more over the southwest of Ireland and all adjacent parts of the Atlantic; exceeding 30·4 in: in a "col" uniting these two high pressure areas, and lying across France and Germany. Lowest, 29·0 in: to 29·3 in: over Denmark and the north of Norway, and 29·9 ins and less to 30·0 in: in a large shallow depression over Sicily and the southern half of Italy. Northern depression moving southeastwards later, and barometer rising slowly in Iceland and 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 made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. 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 22nd January, 1893

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. Reading at 32° F. and Sea Level.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	THIS MORNING. (See note at bottom of last page.) Barometer. Reading at 32° F. and Sea Level.	Barometer. Change since Yesterday Morn.	Shade Temp. Dry Bulb.	Shade Temp. Wet Bulb.	Shade Temp. Change in dry since Yesterday.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	Sea (0 to 9).	PAST 24 HOURS. Weather.	Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
		Ins.	°				Ins.		°	°	°							°	Ins.
SCANDINAVIA.	Haparanda ...	29.80	5	Z	0	b	29.89	+ .44	19	19	+ 2	SW	6	0	4	b	30	5	—
	Hernösand ...	29.98	4	Z	0	b	30.04	+ .44	− 4	− 5	− 15	Z	0	b	*	b	27	?	—
	Stockholm ...	29.88	25	N	2	s	29.99	+ .42	24	23	− 4	NNE	2	0	4	s	32	23	—
	Wisby	29.74	26	SSE	4	0	29.87	+ .23	24	23	− 6	NE	4	s	4	0	32	19	0.08
	Bodö	29.56	32	SSW	7	s	29.87	+ .38	38	32	+ 5	SW	4	0	2	s	?	27	—
	Christiansund...	30.02	30	WNW	6	s	30.02	+ .24	32	30	+ 4	WSW	7	s	6	s	32	28	0.24
	Skudesnaes ...	30.19	24	N	5	b	30.13	+ .25	28	27	+ 1	ESE	4	0	2	s, b	28	27	—
	Christiania Fjord (Fiorder)	30.00	25	NNW	4	b	30.10	+ .40	21	19	− 7	WNW	2	b	0	b	28	19	—
	Skagen (The Scaw)	30.02	27	NNE	5	b	30.09	+ .42	26	24	− 6	NNE	2	b	1	b	32	25	—
	Fanö	30.01	23	NW	5	b	30.14	+ .31	19	18	− 11	NNW	2	b	*	b	32	19	—
BRITISH ISLANDS	Sumburgh Head	30.25	31	N	1	0	29.83	− .30	48	48	+ 15	W	4	r	4	0	43	25	0.28
	Stornoway ...	30.27	41	Z	0	r	30.09	− .21	45	48	+ 10	NW	6	0	5	r	48	35	0.12
	Wick	30.30	39	NW	2	0	29.98	− .22	40	40	+ 7	NW	4	r	4	0	40	31	0.12
	Nairn	30.32	36	Z	0	r	30.09	− .19	47	47	+ 10	NW	3	c	2	r	47	32	0.06
	Aberdeen ...	30.34	34	NW	1	0	30.10	− .15	41	40	+ 8	W	3	0g	3	0p	41	33	0.14
	Leith	30.35	42	SW	2	b	30.16	− .11	44	43	+ 4	W	3	b	*	b	45	33	—
	Shields	30.36	37	N	2	r	30.19	− .03	41	40	+ 4	W	3	c	3	r	41	33	0.05
	Spurn Head ...	30.33	36	NW	3	0p	30.24	+ .02	35	35	− 3	SSW	1	dm	4	0p	36	33	0.09
	York	30.37	37	WNW	1	0	30.24	− .06	36	36	− 4	SE	1	f	*	0	43	36	0.05
	Loughborough	30.40	41	NW	4	c	30.32	− .05	42	41	+ 3	WNW	2	0	*	s	44	39	0.01
	Ardrossan ...	30.37	46	W	4	0	30.24	− .11	43	42	+ 1	W	3	0	2	0	46	41	—
	Malin Head ...	30.43	44	WSW	5	om	30.31	− .12	45	45	+ 1	W	3	od	2	om	46	43	0.04
	Mullaghmore ...	30.39	46	W	3	om	30.39	− .13	46	46	+ 2	W	3	0p	3	cmo	46	42	0.02
	Belmullet ...	30.35	47	SW	2	0p	30.42	− .16	47	47	+ 2	SW	2	0	*	odp	48	44	0.06
	Donaghadee ...	30.45	45	WNW	2	b	30.34	− .11	50	49	+ 10	W	3	bc	2	b	50	39	—
	Liverpool (Bidston)	30.44	41	W	5	0	30.34	− .08	41	40	+ 1	W	5	c	3	0	43	38	—
	Holyhead ...	30.49	44	NW	3	c	30.38	− .09	44	43	+ 3	NW	3	cgw	2	c	45	41	—
	Parsonstown ...	30.56	46	SW	1	0	30.46	− .12	43	42	+ 3	Z	0	cd	*	omw	47	38	—
	Valencia	30.64	45	Z	0	bmw	30.50	− .13	48	47	+ 4	SSW	1	omw	1	mfq, b	50	39	0.01
	Roche's Point	30.61	46	WNW	2	c	30.50	− .12	41	40	− 2	NNW	2	b	3	c	45	39	—
	Pembroke (St. Ann's Hd.)	30.54	45	NW	3	b	30.44	− .13	45	44	+ 1	WNW	4	dpq	4	b	46	43	0.02
	Scilly	30.60	47	NW	5	c	30.51	− .08	46	45	− 1	WNW	4	dq	3	c	47	42	0.01
	Prawle Point ...	30.55	41	WNW	3	c	30.46	− .12	41	41	+ 4	WNW	2	cw	1	c	46	37	—
	Jersey (St. Aubin's)	30.55	45	WNW	3	c	30.45	− .12	46	44	+ 3	W	3	ogm	3	c	45	41	—
	Hurst Castle ...	30.48	40	WNW	3	c	30.39	− .10	40	39	+ 3	WNW	3	c	2	c	43	37	—
	Dungeness ...	30.36	39	NNW	4	c	30.31	+ .06	36	35	− 1	NW	2	d	2	c	41	34	0.05
	North Foreland	30.33	38	NNW	5	0q	30.33	+ .04	38	38	− 3	NNW	1	rsm	3	0q	40	34	0.09
	London	30.41	42	NW	3	0	30.32	− .09	41	39	+ 4	WNW	1	od	*	0	43	37	0.05
	Oxford	30.44	41	NW	2	0	30.36	− .07	41	40	+ 3	W	2	ow	*	0	43	38	—
	Cambridge ...	30.39	38	W	2	0	30.31	− .04	35	35	− 2	SW	1	c	*	0	42	33	0.13
	Yarmouth ...	30.38	36	NNW	4	0	30.28	+ .08	33	33	− 3	NW	2	fg	4	0gr	38	31	0.21
GERMANY & HOLLAND	Cuxhaven ...	29.97	30	NNE	3	b	30.15	+ .27	27	25	− 4	N	3	b	*	b	32	25	—
	Berlin	29.79	24	NW	3	b	29.83	− .01	25	25	− 2	NW	4	s	*	b	30	21	0.08
	Wiesbaden ...	*	*	*	*	*	30.18	+ .01	28	25	− 2	N	4	b	*	*	34	25	0.20
	Munich ...	29.95	25	W	5	0	30.00	− .10	20	19	− 4	NW	7	c	*	0	28	19	—
	The Helder ...	30.23	30	NW	5	b	30.28	+ .17	33	31	0	NNW	2	bc	2	b	36	28	0.20
FRANCE AND BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	30.34	+ .05	29	29	− 2	Z	0	0	*	b	37	26	—
	Cape Gris Nez	30.30	40	NW	5	0	30.29	− .03	35	35	− 2	NW	2	r	2	0	41	34	0.04
	Paris	30.38	39	WNW	4	0	30.36	− .09	38	38	− 1	S	2	0	*	0	42	32	0.04
	Brest	?	45	N	2	c	?	?	47	46	+ 2	NNW	2	0	2	c	52	45	0.04
	Lorient	30.60	45	NNW	4	c	30.50	− .11	45	43	+ 1	NW	4	c	2	c	48	44	—
	Rochefort ...	30.53	42	WNW	3	0	30.47	− .05	42	41	+ 6	NW	3	0	*	0	43	39	—
	Belfort	?	31	NW	6	s	?	?	23	22	0	WNW	4	0	*	s	31	19	0.12
	Lyons	30.62	42	NW	1	s	30.39	− .13	28	28	+ 10	N	1	s	*	s	42	[illegible]	0.32
	Nice																		
	Perpignan ...	30.40	43	NW	6	b	30.34	.00	45	38	0	NW	7	b	*	b	52	40	—
	Biarritz	30.63	46	N	4	0	30.55	+ .05	47	44	+ 2	NNE	4	r	2	0	48	39	0.12
PENINSULA.	Corunna	*	*	*	*	*	30.60	+ .09	50	46	+ 1	ENE	3	c	2	*	55	46	—
	Lisbon	30.54	47	NW	4	b	30.52	− .01	42	41	− 2	NNE	3	b	*	b	54	41	—

For Explanation of Columns, see bottom of last page.

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

WEATHER CHARTS

for 8 a.m. on Sunday, 22nd Jan. 1893

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

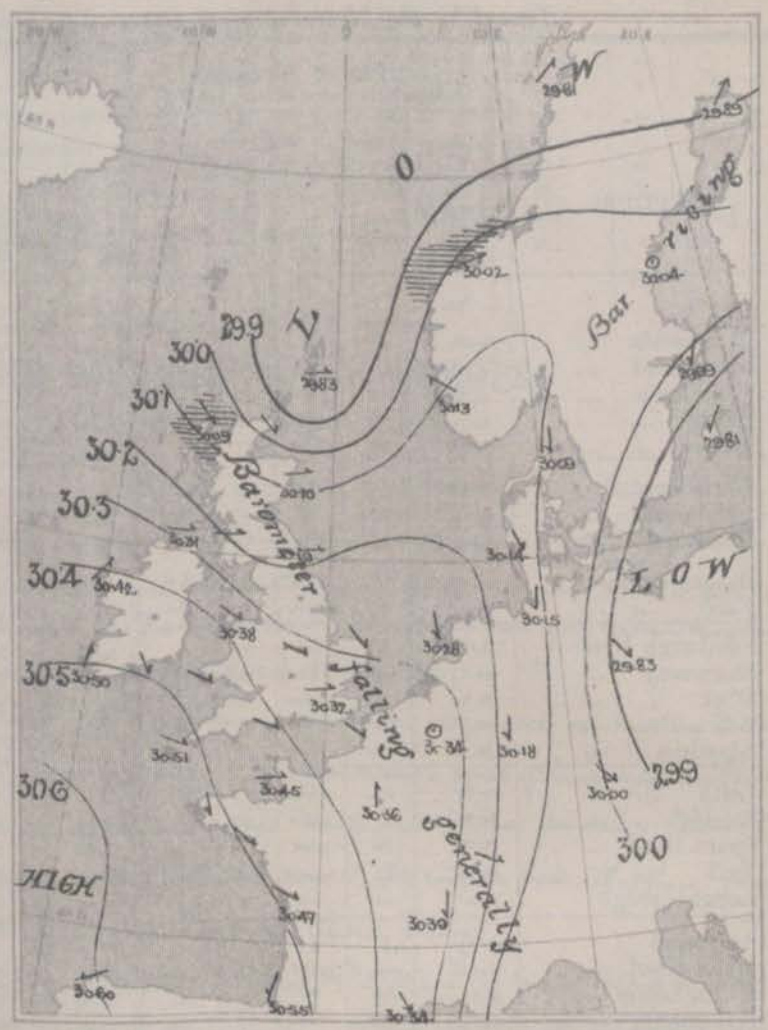
BAROMETER.—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

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

⟶ = forces above 10; ⟶ = forces 8 to 10,
⟶ = forces 5 to 7; ⟶ = forces 1 to 4.
⊘ = dead calm.

SEA DISTURBANCE.—Where considerable, is shown thus:

= Rough. = High.



MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of January.
During the 20 Years: 1871—1890.

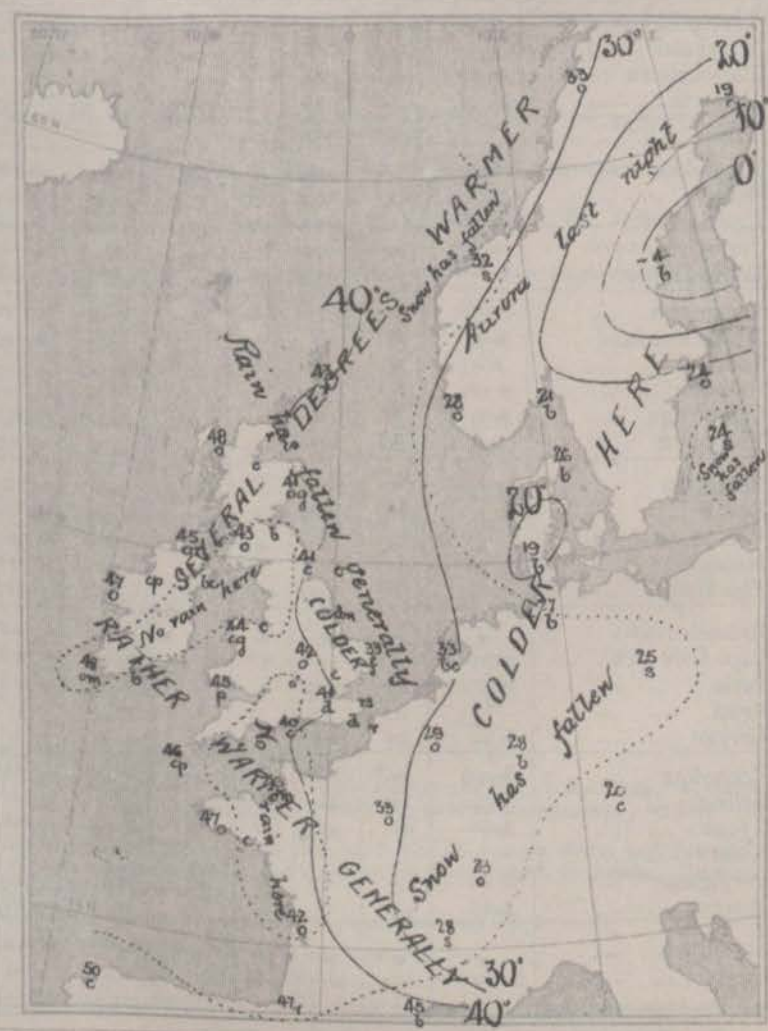
STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29·675
Stornoway	29·682
Wick	29·716
Nairn	29·745
Aberdeen	29·787
Leith	29·825
Shields	29·881
Spurn Head	29·926
York	29·932
Loughborough	29·967
Ardrossan	29·848
Mullaghmore	29·817
Donaghadee	29·856
Holyhead	29·902
Liverpool	29·924
Parsonstown	29·895
Valencia	29·887
Roche's Point	29·908
Pembroke	29·936
Scilly	29·962
Prawle Point	30·006
Jersey	30·042
Hurst Castle	30·002
Dover	30·012
LONDON	30·006
Oxford	29·999
Cambridge	29·994
Yarmouth	29·979

TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN LAST 24 HOURS.

TEMPERATURE.—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shown by Letters of the Beaufort Scale.

RAINFALL.—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·2 in. or more are quoted in figures.



MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of January.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	at 8 a.m. Wet.	RAINFALL. (Inches.)
Sumburgh Head	42·9	35·6	39·7	38·4	3·72
Stornoway	43·3	34·5	39·5	38·4	5·30
Wick	42·4	33·4	38·2	36·8	2·05
Nairn	42·2	32·9	37·2	35·6	1·69
Aberdeen	42·4	33·2	37·5	35·8	2·31
Leith	44·4	34·7	38·6	37·2	1·93
Shields	45·0	34·2	38·2	36·9	1·75
Spurn Head	41·7	34·3	37·7	35·7	1·85
York	43·7	32·6	38·7	36·2	1·87
Loughborough	43·6	32·3	38·4	35·4	2·04
Ardrossan	44·2	35·3	40·6	38·8	4·25
Mullaghmore	43·4	35·9	41·6	40·4	1·36
Donaghadee	44·4	36·1	40·6	39·2	2·93
Holyhead	45·[illegible]	38·7	41·7	40·2	3·38
Liverpool	43·5	35·2	39·6	37·6	2·22
Parsonstown	45·6	34·2	39·9	37·8	3·12
Valencia	49·4	40·4	44·5	43·4	6·69
Roche's Point	47·7	39·5	43·2	41·6	5·50
Pembroke	46·3	39·6	42·7	41·3	3·75
Scilly	48·8	42·9	46·4	44·9	3·73
Prawle Point	46·2	37·6	42·0	41·0	3·09
Jersey	45·8	38·3	42·8	40·4	3·21
Hurst Castle	45·6	36·3	40·3	39·5	2·84
Dover	43·5	33·8	39·2	38·1	2·58
LONDON	44·1	33·8	39·6	38·6	2·12
Oxford	43·1	33·6	37·1	36·1	2·26
Cambridge	43·3	31·7	36·2	34·4	1·64
Yarmouth	41·5	33·4	37·5	35·7	1·95

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·5 ins. to 30·6 ins. in an anticyclone extending from the Atlantic over Spain, the Bay of Biscay, and the extreme southwest of our Islands.
Lowest, 29·8 ins. and less, in a depression lying to the northward of the Shetlands and also in another disturbance lying over the Baltic.
Gradients moderate over the northern parts of Scotland and the North Sea, but slight elsewhere.
Barometer falling at all but the Swedish stations, but inclined to rise again in the Shetlands.

TEMPERATURE

Highest, 50° at Donaghadee and Lourmna, 48° at Stornoway and Valencia Island, and 47° at Belmullet and Brest.
Lowest – 4°F at Hernösand, +19° at Haparanda and Faröe, 20° at Munich, 21° at Lerwick, and 23° at Belfort.
During yesterday the thermometer rose to between 45° and 50° on our western coasts and to 40° or more in nearly all other parts of the Kingdom.

WIND

Light or moderate from the W. or NW. over the greater part of our Islands and France, but SW. in the west of Ireland.
Light from the N. over Denmark, Germany and the Netherlands. SW. in the west of Norway and the north of Sweden, and strong in force at Christiansund.

WEATHER

Cloudy or overcast generally with slight rain in many parts of Ireland and England, and with sleet at the North Foreland.
Fine and bright over Denmark and western Germany, as well as in the extreme south of France, but snow falling at Lyons.
Rain fell yesterday in many parts of the United Kingdom, and snow at several of the Continental stations.

SEA

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

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 23rd Jan. 1893.

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	None issued.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·06	27	26	NNW	5	s	4
Sunburgh Head	30·21	29	28	N	2	o	4
Stornoway	30·22	41	41	2	0	r	3
Aberdeen	30·31	35	33	NW	2	o g4p	3
Shields	30·32	37	36	NW	2	r	3
Ardrossan	30·33	45	44	W	4	o	3
Malin Head ...	30·45	45	44	W	4	o	3
Mullaghmore ...	30·54	46	45	W	4	cm	4
Belmullet	30·56	48	47	SW	2	od	*
Holyhead	30·49	44	43	NW	4	c	4
Valencia	30·64	50	49	WSW	1	cmp	1
Scilly	30·61	47	42	NW	4	c	3
Jersey	30·56	47	42	WNW	4	c	3
Hurst Castle ...	30·46	43	41	WNW	4	c	2
Dungeness... ...	30·32	41	38	NW	4	o	2
North Foreland...	30·30	40	40	NW	5	o	4
London (Westminster)	30·37	44	40	NW	4	o	*
Yarmouth	30·22	37	36	NNW	6	o r q	4
Rochefort	30·51	43	40	WNW	3	o	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather in morning fine and bright over Algeria, Portugal, the west of France, the southwest of England, as well as in Denmark, Sweden, and at St Petersburg; cloudy, changeable, and unsettled elsewhere, with rain showers at some of our western stations and at Tunis, snow at Christiansund, Helsingfors, Breslau and Cracow. Showers of rain during day over the greater part of our Islands and many parts of France, snow over Austria, Germany, and some parts of Northern Europe.

Temperature fallen again over northern, risen over Central Europe. Morning readings above 50° at Malta and La Calle only; exceeding 40° on the Atlantic coast of Spain, France, and the British Islands, and exceeding 32° over the British Islands and the western half of France. Lowest −11°F to −4°F over Central Russia, rather below zero over Poland, +11° to 17° over Finland and the northern half of Sweden, 22° to 30° over Austria and Germany, 18° at Lyons. Exceeding 45° in many parts of our Islands and the north and west of France later, touching 50° at Donaghadee and Valencia (Ireland) 52° at Brest, and 52° to 55° in the western parts of the Peninsula and the south of Italy and 57° on the Algerian coast.

Wind (1) NW^ly moderate to strong, at our own stations, in Norway, and on the eastern shores of the North Sea, W^ly to S^ly and moderate over Germany. S^ly over the Baltic (a gale at Hangö); (2) Mainly N^ly and NW^ly over the Mediterranean, very variable and light over Russia. Falling light on our northwestern coasts later and backing to the W^ward.

Barometer, highest (1) 30·6 in. and more to 30·2 in. in the eastern portion of an anticyclone spreading in from the Atlantic over Spain, France, and the United Kingdom; (2) 30·5 in. and more to 30·0 in. in another over Russia. Lowest 29·5 in. and less over Lapland, and below 29·0 in. and less in a secondary system stretching southwards over Sweden; 29·9 in. and less over the Black Sea and Asia Minor. Continental anticyclone giving way later, that in the west spreading eastwards, but showing some signs of giving way also.

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 made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. 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, 23rd January, 1893

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. Reading at 32° F. and Sea Level.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	THIS MORNING. (See note at bottom of last page.) Barometer. Reading at 32° F. and Sea Level.	Barometer. Change since Yesterday Morn.	Shade Temp. Dry Bulb.	Shade Temp. Wet Bulb.	Shade Temp. Change in dry since Yesterday.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	Sea (0 to 9).	PAST 24 HOURS. Weather.	Shade Temp. Max	Shade Temp. Min.	Amount of Rainfall.
		Ins.	°				Ins.		°	°	°							°	Ins.
Scandinavia	Haparanda ...	29.91	17	SW	2	0	29.91	+.02	13	12	− 6	2	0	0	*	0	21	3	0.04
	Hernösand ...	29.93	0	2	0	b	29.94	−.10	8	8	+ 12	2	0	f	*	b	8	−8	-
	Stockholm ...	29.86	15	N	2	b	29.84	−.15	18	17	− 6	NE	2	0	*	b	27	14	-
	Wisby	29.80	26	NNE	6	s	29.76	−.05	23	21	− 1	N	4	0	*	s	28	19	0.04
	Bodö	29.85	31	2	0	0	29.75	−.06	23	21	− 10	E	2	b	1	0	34	18	-
	Christiansund...	29.75	29	ESE	2	b	29.68	−.34	32	30	0	ESE	2	c	3	b	32	28	-
	Skudesnaes ...	29.82	38	SSE	6	s	29.79	−.34	35	33	+ 7	SSE	5	0	4	s	35	28	-
	Christiania Fjord (Faerder)	29.96	23	2	0	b	29.86	−.34	27	27	+ 6	2	0	f	0	b	?	21	-
	Skagen (The Scaw)	29.90	15	2	0	b	29.88	−.21	22	20	− 4	W	1	0	0	b	27	*14	-
	Fanö	29.89	27	SSE	5	s	29.82	−.32	25	25	+ 6	SE	2	c	*	s	28	18	0.04
British Islands	Sumburgh Head	29.76	44	WNW	3	f	29.64	−.19	45	45	+ 2	WNW	3	r	4	f	46	42	0.42
	Stornoway ...	30.01	49	NW	6	r	29.83	−.26	49	49	+ 1	W	4	0	4	r	49	46	0.08
	Wick	29.88	45	NW	4	r	29.76	−.22	48	48	+ 8	NW	3	0	3	r	48	39	0.12
	Nairn	29.98	49	NW	3	c	29.85	−.24	48	47	+ 1	NW	2	bc	1	c	50	45	0.01
	Aberdeen ...	29.93	49	WNW	6	cg	29.85	−.25	49	46	+ 8	W	3	cg	3	p, cg	50	41	0.01
	Leith	30.03	47	W	4	c	29.92	−.24	50	48	+ 6	W	3	0	*	c	51	44	-
	Shields	30.04	47	W	4	c	29.94	−.25	48	47	+ 7	WSW	2	0	3	cp	48	39	-
	Spurn Head ...	30.06	41	W	3	cm	29.94	−.30	42	41	+ 7	WNW	4	0	4	cm	42	34	-
	York	30.12	44	SSE	1	0	29.98	−.26	47	45	+ 11	W	3	0	*	0	47	36	-
	Loughborough	30.20	45	W	3	0	30.08	−.24	45	44	+ 3	W	4	0g	*	0	47	42	-
	Ardrossan ...	30.13	47	SSE	3	0	30.00	−.24	48	48	+ 5	W	4	0	2	0	48	43	0.03
	Malin Head ...	30.22	46	WSW	4	om	30.05	−.26	47	47	+ 2	WSW	5	om	3	om	48	45	0.02
	Mullaghmore ...	30.31	47	WSW	3	op	30.15	−.24	48	48	+ 2	WSW	3	om	3	op	48	45	0.08
	Belmullet ...	30.35	49	SW	3	0	30.18	−.24	50	49	+ 3	SW	3	0	*	0	50	47	0.04
	Donaghadee ...	30.22	50	NW	3	bc	30.10	−.24	50	49	0	NW	5	bc	3	bc	50	48	-
	Liverpool (Bidston)	30.22	43	W	5	0	30.11	−.23	43	42	+ 2	W	5	m	3	0	44	41	0.03
	Holyhead ...	30.29	47	WNW	3	cg	30.15	−.23	47	47	+ 3	WNW	4	og	4	c, cg	48	43	-
	Parsonstown ...	30.37	46	SW	1	0	30.23	−.23	46	47	+ 5	SW	1	0	*	0, r	50	41	0.03
	Valencia	30.45	48	2	0	bm	30.33	−.20	51	50	+ 3	NSW	3	om	3	bm	51	46	0.02
	Roche's Point	30.42	48	NW	2	b	30.29	−.21	48	47	+ 7	WNW	3	c	3	b	50	40	-
	Pembroke (St. Ann's Hd.)	30.36	46	NW	3	bc	30.24	−.20	47	46	+ 2	WNW	4	og	4	bc	47	44	0.01
	Scilly	30.41	48	WNW	4	cp	30.33	−.18	49	48	+ 3	WNW	4	c	3	cp	50	44	0.06
	Prawle Point ...	30.37	44	WNW	3	c	30.28	−.18	43	42	+ 2	W	3	c	2	cp	49	41	0.01
	Jersey (St. Aubin's)	30.37	46	WNW	3	cgm	30.27	−.18	47	46	+ 1	W	3	omw	3	c, gm, b	50	43	-
	Hurst Castle ...	30.29	44	WNW	5	c	30.18	−.21	42	41	+ 2	WNW	5	bc	2	c	45	39	-
	Dungeness ...	30.21	42	NW	3	0	30.03	−.28	45	43	+ 9	NW	4	c	3	0	45	35	0.03
	North Foreland	30.18	41	NW	3	om	29.98	−.35	43	42	+ 10	WNW	5	og	3	TS, om	43	32	0.09
	London	30.23	42	W	1	0	30.08	−.24	44	42	+ 3	NW	2	0	*	dp, o	45	41	0.02
	Oxford	30.23	43	W	1	0	30.14	−.22	41	39	0	SW	4	og	*	0	46	39	-
	Cambridge ...	30.16	43	NW	1	0	30.04	−.27	44	43	+ 9	NW	2	c	*	0	46	33	-
	Yarmouth ...	30.11	37	WSW	3	cf	29.94	−.34	44	43	+ 11	NW	4	c	4	cf	44	31	0.05
Germany & Holland	Cuxhaven ...														*				
	Berlin	30.01	21	WNW	2	0	29.89	+.06	8	8	− 17	E	1	bc	*	0	29	7	-
	Wiesbaden ...	*	*	*	*	*	29.75	−.43	29	28	+ 1	W	1	s	*	*	30	25	-
	Munich ...	30.12	19	W	6	b	29.83	−.17	19	19	− 1	S	5	s	*	b	23	16	0.04
	The Helder ...	30.01	38	SW	4	0	29.82	−.46	37	?	+ 4	NW	5	r	3	r	39	32	0.91
France and Belgium	Brussels (9 a.m.)	*	*	*	*	*	29.90	−.44	40	39	+ 11	WNW	5	r	*	s	41	28	0.71
	Cape Gris Nez	30.18	39	SSW	3	m	29.99	−.30	41	40	+ 6	WNW	5	0	5	m	43	30	0.16
	Paris	30.28	33	S	1	0	30.08	−.28	41	40	+ 8	WNW	5	0	*	0	?	33	0.16
	Brest	?	48	NNW	3	c	?	?	46	45	− 1	NNW	3	c	3	c	50	43	0.12
	Lorient	30.41	46	NW	4	c	30.36	−.14	46	45	+ 1	NW	4	bc	3	c	50	45	-
	Rochefort ...	30.34	42	NNW	3	bc	30.33	−.14	43	42	+ 1	NW	3	0	*	bc	45	39	0.39
	Belfort	?	31	W	3	0	?	?	23	22	0	W	7	s	2	0	31	19	0.16
	Lyons	30.39	26	S	1	s	30.21	−.18	26	26	− 2	N	1	s	*	s	32	26	0.28
	Nice	30.07	38	2	0	c	29.95		38	29		E	3	b	3	c	46	32	-
	Perpignan ...	30.31	45	NW	5	b	30.25	−.09	49	41	+ 2	NW	4	bc	*	b	50	43	-
	Biarritz	30.48	48	NNE	3	0	30.45	−.10	48	46	+ 1	NW	5	r	3	0	48	41	0.20
Peninsula	Corunna	*	*	*	*	*										*			
	Lisbon	30.43	49	NNW	4	0	30.44	−.10	41	40	− 1	NNE	3	b	*	b	57	39	-

For Explanation of Columns, see bottom of last page.

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

WEATHER CHARTS

for 8 a.m. on Monday, 23rd Jan: 1893

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

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

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

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

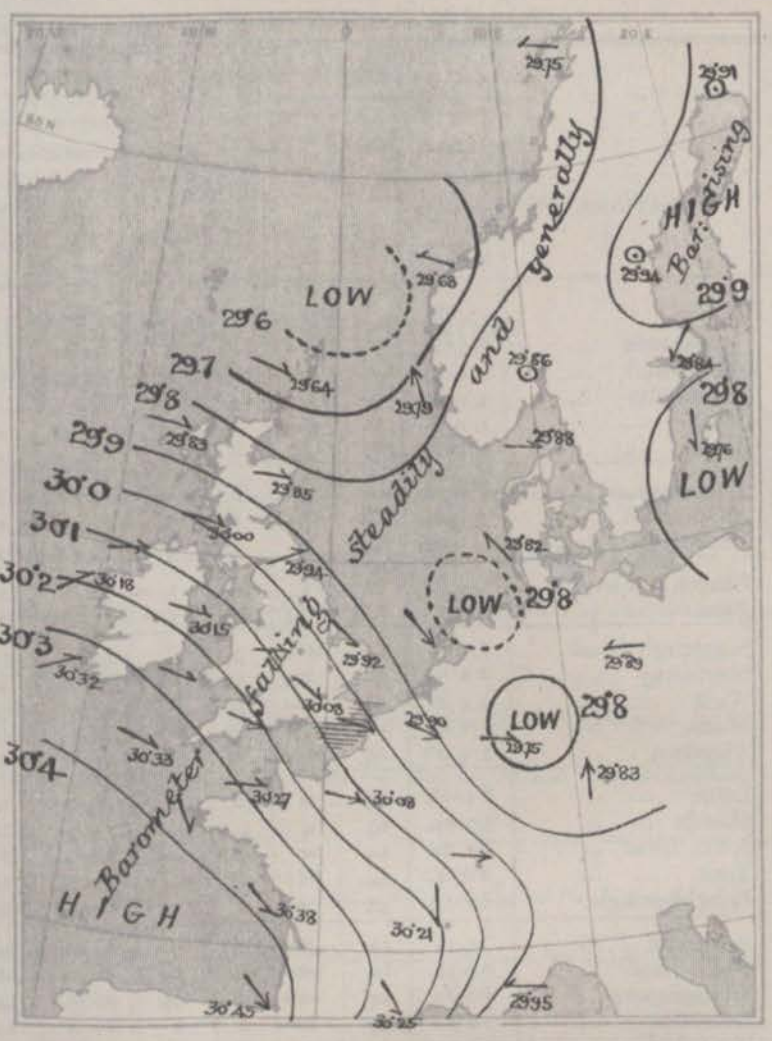
SEA DISTURBANCE—Where considerable, is shown thus:

▒ = Rough. ▒ = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of January.
During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29·675
Stornoway	29·682
Wick	29·719
Nairn	29·745
Aberdeen	29·787
Leith	29·835
Shields	29·881
Spurn Head	29·926
York	29·932
Loughborough	29·967
Ardrossan	29·838
Mullaghmore	29·817
Donaghadee	29·850
Holyhead	29·902
Liverpool	29·924
Parsonstown	29·895
Valencia	29·887
Roche's Point	29·908
Pembroke	29·936
Scilly	29·969
Prawle Point	30·006
Jersey	30·022
Hurst Castle	30·002
Dover	30·012
LONDON	30·006
Oxford	29·999
Cambridge	29·993
Yarmouth	29·979



TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shown by Letters of the Beaufort Scale.

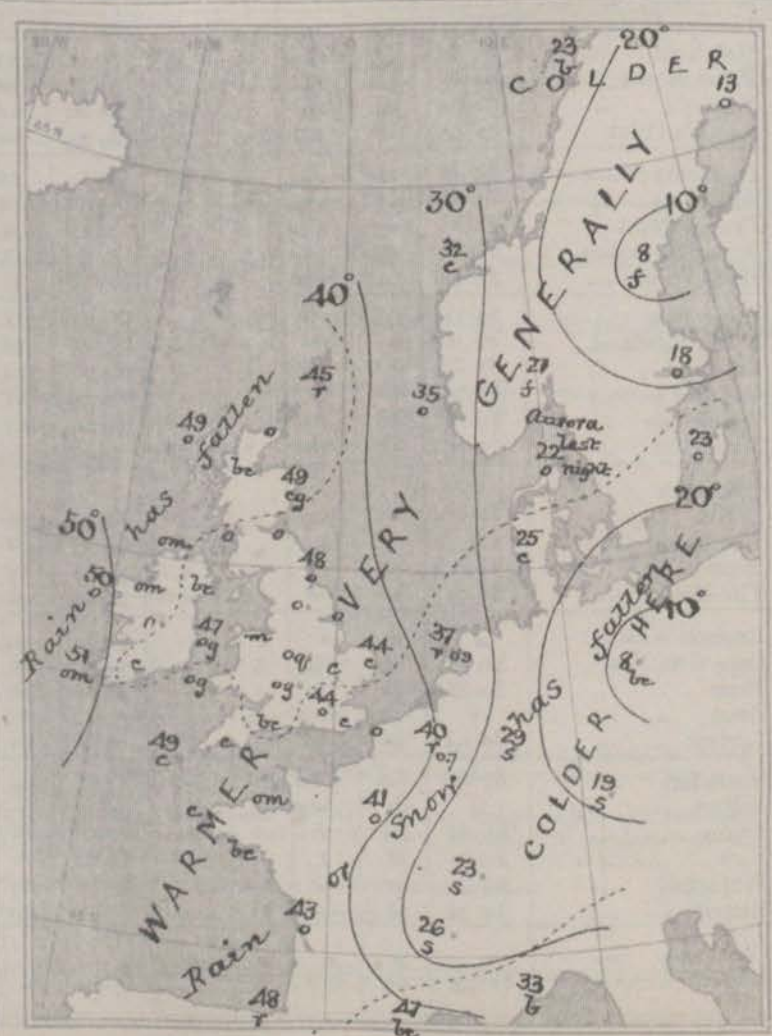
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of January.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	RAINFALL (Inches.)
Sumburgh Head	42·9	35·6	39·7	38·4	3·72
Stornoway	43·3	34·5	39·5	38·4	3·39
Wick	42·4	33·3	38·2	36·8	2·05
Nairn	42·2	32·9	37·2	35·6	1·99
Aberdeen	42·4	33·2	37·3	35·6	2·31
Leith	44·4	33·7	38·6	37·2	1·93
Shields	43·0	34·2	38·2	36·9	1·75
Spurn Head	41·7	34·5	37·7	36·7	1·35
York	43·7	33·5	36·7	35·7	1·87
Loughborough	43·6	32·2	36·4	35·4	2·04
Ardrossan	44·2	38·3	40·0	38·8	4·25
Mullaghmore	46·1	38·6	41·6	40·4	4·36
Donaghadee	44·4	38·1	40·0	39·2	2·93
Holyhead	45·5	38·7	41·7	40·5	3·28
Liverpool	45·5	35·2	39·6	37·9	2·22
Parsonstown	45·6	34·2	38·9	37·8	3·12
Valencia	49·5	40·4	44·6	43·3	6·69
Roche's Point	47·7	39·5	43·2	41·9	3·50
Pembroke	46·5	39·6	42·7	41·3	3·75
Scilly	48·8	42·2	45·4	44·9	5·75
Prawle Point	46·2	37·6	42·0	41·0	3·09
Jersey	46·8	38·3	41·8	40·4	3·21
Hurst Castle	45·0	36·3	40·3	39·5	2·94
Dover	43·5	35·8	39·2	38·1	2·38
LONDON	44·1	34·8	37·6	36·6	2·12
Oxford	43·1	34·6	37·1	36·1	2·26
Cambridge	43·3	34·7	36·2	35·4	1·54
Yarmouth	41·6	34·8	37·5	36·7	1·95

NOTE—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·4 ins. and upwards, in an anticyclone lying over Spain and the Bay of Biscay.
Lowest, 29·7 ins. and less, in a depression lying off the west of Norway; 29·8 ins. and less, in three shallow systems lying respectively over the Baltic, Western Germany, and the southern part of the North Sea.
Gradients moderate over our Islands and France, but slight elsewhere.
Barometer falling generally, but rising a little over the northern parts of Sweden.

TEMPERATURE

Highest, 51° at Valencia Island, 50° at Leith, Belmullet, and Donaghadee and 49° at Stornoway, Aberdeen, and Lerwick.
Lowest, 8° at Hammerfest and Berlin, 13° at Haparanda, 15° at Stockholm, 19° at Munich, and 22° at Skagen.
In the course of yesterday the thermometer rose to 50° or more at several of our western and northern stations.

WIND

Light to fresh from the W. or NW. over the greater part of our Islands and France, but SW. in the north of Ireland.
SE. on the eastern shores of the North Sea; calm in the north of Sweden; N. or NE. in the south of that country.

WEATHER

Cloudy or overcast generally, with fog at some of the Scandinavian stations, rain in the Shetlands, and also in the Netherlands, and snow in Germany and Central France.
Fine and bright in the extreme south of France.
Slight rain fell yesterday in many parts of the United Kingdom, and larger amounts of rain, or of snow in France, Germany, and the Netherlands.

SEA

Moderate to smooth generally, but rather rough at Cape Gris Nez.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are at present no indications of any decided change in the weather but the tendency is for a gradual increase in the steepness of the gradients over our Islands, and a consequent freshening of the wind from the westward.

FORECASTS

For the 24 hours ending at NOON on 24th January, 1893.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST 2 ENGLAND N.E.	W. and SW. winds, freshening; dull, some rain.	6 SCOTLAND WEST 7 ENGLAND N.W.	Same as Nos 0 to 2.
3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	W. winds, freshening; fair to dull and some rain.	8 ENGLAND S.W.	W. and SW. winds, freshening; fair to dull and some rain.
		9 IRELAND NORTH 10 IRELAND SOUTH	SW. winds, freshening; dull, some rain.
		WARNINGS	NONE ISSUED.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND Direc.	F.	WEA.	SEA.
Skudesnoes ...	29·91	31	29	SE	6	0	3
Sumburgh Head							
Stornoway	30·05	49	49	NW	4	4	4
Aberdeen							
Shields							
Ardrossan							
Malin Head ...	30·28	48	49	W	4	0	2
Mullaghmore ...							
Belmullet	30·38	50	49	SW	4	0	*
Holyhead	30·32	47	46	NNW	8	0	2
Valencia							
Scilly							
Jersey	30·40	50	46	NNW	4	0	3
Hurst Castle ...							
Dungeness... ...	30·23	44	39	NNW	2	0	2
North Foreland...	30·22	36	35	S	2	0	3
London							*
Yarmouth							
Rochefort	30·45	43	42	NW	3	0	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather in morning fine and bright over many parts of southwestern, southern, and southeastern Europe, as well as over western Germany, Denmark and some parts of Sweden and central Russia – very dull elsewhere – changeable and hazy over the United Kingdom, with some rain in several places. A little sleet or rain at several of our own and the French stations later – most at Stornoway – and considerable quantities in the Netherlands.

Temperature fallen over the northern, risen over the southern half of Russia. Morning readings exceeding 50° at Palermo, La Calle and Barcelona only, but ranging between 50° and 40° on the southern side of the Mediterranean and all the Atlantic coasts of Europe and the British Islands. Considerably lower on the Continent – lowest of all – 4° at Hernösand, – 1°F. at Moscow, +5° at Kuopio, 7° both at Archangel and Kiev, 10° at Buda Pesth, 18° at Münster. Rising to 50° or more in the western parts of France, Ireland and east of Scotland and to between 45° and 47° over England. Night rather cold over our northeastern counties and in Belgium.

Wind W. and NW. over the United Kingdom and France, NE. over Spain and Portugal; E. over Russia, NE. over the Baltic, NW. over Germany, W. over Austria-Hungary; Strong to a gale from N. and NW. over Sardinia and the eastern half of the Mediterranean. Freshening from NW. in Scotland later but from SE. in Norway.

Barometer Highest (1) 30·6 ins. and more to 30·2 ins. over Spain, France, England and Ireland, with the adjacent parts of the Atlantic; (2) 30·2 ins. and more over the eastern half of Russia. Lowest 29·8 ins. and less in a depression over the southern parts of the Adriatic; 29·7 ins. and less in another over E. Prussia and the Baltic Provinces; 29·9 ins. and less over Lapland and the Shetland Isles. Falling steadily over the British Isles and northwestern Europe later.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 15TH TO 21ST JAN. 1893

The weather of last week was milder than of late, especially in the more western and northern parts of the Kingdom, where the thermometer rose during the middle of the period to between 45° and 50°. Falls of rain or snow were experienced in most districts, and gales occurred on many parts of our coasts.

The distribution of pressure was rather complex, two anticyclones being in existence, one off our southwest coasts and the other over northern, and subsequently over central, Europe. At the commencement of the time a depression travelled away in a SE. direction from the Channel and north of France to the Mediterranean, but on Monday a new disturbance appeared off our northern coasts. To the southward of the latter system some well defined secondary depressions were formed, their development being attended by rain or snow in nearly all districts, and by gales from the N. or NW. on many parts of our W. and N. coasts.

By the morning of the 18th the disturbances had all disappeared but a series of large depressions now began to advance towards the Norwegian coasts from the westward, and on the 20th, when one of them spread S., a fresh to strong gale from W. or NW. was experienced in the west and north of Scotland. Towards the close of the week the Continental anticyclone disappeared and NW. breezes set in over the greater part of western Europe, with somewhat changeable weather, and with a tendency for lower temperature in our Islands.

Severe frost continued to prevail over the Continent during the greater part of the time, but at the close of the period a rapid rise of temperature set in over France and Germany, the change in the 24 hours ending at 8 a.m. on the 21st being in some instances as great as 10°.

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 made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. The time at each Station is the Standard Time of its Country.

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DAILY WEATHER REPORT

for 8 a.m. on Tuesday 24th January. 1893.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. Reading at 32° F. and Sea Level.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	THIS MORNING. (See note at bottom of last page.) Barometer. Reading at 32° F. and Sea Level.	Barometer. Change since Yesterday Morn.	Shade Temp. Dry Bulb.	Shade Temp. Wet Bulb.	Shade Temp. Change in dry since Yesterday.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	Sea (0 to 9).	PAST 24 HOURS. Weather.	Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
		Ins.	°				Ins.		°	°	°							°	Ins.
SCANDINAVIA.	Haparanda ...	29·90	14	S	2	0	29·62	− ·29	8	8	− 5	S	6	s	*	0	18	7	—
	Hernösand ...	29·88	14	S	2	0	29·64	− ·30	19	18	+ 11	S	4	bc	*	0	?	−6	0·08
	Stockholm ...	29·98	8	Z	0	b	29·88	+ ·04	14	13	− 4	SSW	2	0	*	b	21	7	—
	Wisby	29·95	18	ESE	4	0	29·96	+ ·20	18	17	− 5	SSE	4	0	*	0	25	16	—
	Bodö	29·32	23	E	6	s	29·19	− ·56	38	35	+ 15	SW	6	r	3	s	?	21	—
	Christiansund...	29·33	42	SSE	8	r	29·49	− ·19	40	37	+ 8	WSW	6	0	5	r	42	32	0·24
	Skudesnaes ...	29·70	38	SSE	8	r	29·66	− ·13	40	40	+ 5	Z	0	rf	4	sr	39	34	—
	Christiania Fjord (Faerder)	29·81	31	SSW	5	s	29·68	− ·18	31	31	+ 4	SSW	4	f	3	s	?	27	—
	Skagen (The Scaw)	29·89	26	W	3	s	29·71	− ·17	30	30	+ 8	W	4	m	2	s	30	16	0·08
	Fanö	29·96	25	SE	2	c	29·79	− ·03	35	35	+ 10	WSW	3	f	*	c	36	19	—
BRITISH ISLANDS	Sumburgh Head	29·58	46	WNW	3	r	29·35	− ·29	46	46	+ 1	WSW	7	r	6	rm	47	43	0·38
	Stornoway ...	29·77	49	SW	4	0	29·50	− ·33	50	47	+ 1	W	6	r	5	r0	50	47	0·10
	Wick	29·72	50	NW	3	0	29·52	− ·24	47	47	− 1	W	4	0	3	0	50	45	0·03
	Nairn	29·78	50	W	3	c	29·58	− ·27	49	48	+ 1	WSW	3	c	1	c	51	47	0·01
	Aberdeen ...	29·79	50	WSW	3	c	29·66	− ·19	47	43	− 2	SW	4	c	1	c	53	36	0·01
	Leith	29·90	47	W	4	0	29·76	− ·16	47	45	− 3	WSW	4	bc	*	0	52	45	—
	Shields	29·97	49	NW	3	b	29·89	− ·05	48	45	0	WSW	2	c	2	cbm	52	46	—
	Spurn Head ...	29·99	43	WNW	4	og	29·99	+ ·05	42	41	0	W	2	bc	2	0	43	40	—
	York	30·03	47	W	1	c	29·99	+ ·01	46	44	− 1	W	1	c	*	c	53	44	—
	Loughborough	30·10	48	WNW	2	0	30·09	+ ·01	45	43	0	WSW	3	0	*	o,p	50	42	0·01
	Ardrossan ...	29·95	49	W	3	r	29·84	− ·16	47	45	− 1	S	3	op	3	p	50	44	0·03
	Malin Head ...	29·95	47	WSW	5	0	29·78	− ·27	47	46	0	SW	5	ed	4	om	48	46	0·01
	Mullaghmore ...	30·09	49	WSW	4	0	29·87	− ·28	49	47	+ 1	SW	5	o	4	d,g,p	49	46	0·01
	Belmullet ...	30·10	50	SW	3	0	29·76	− ·32	49	48	− 1	SW	5	ow	*	o	50	48	0·02
	Donaghadee ...	30·07	50	W	5	0	29·93	− ·17	46	45	− 4	W	4	c	2	o	52	43	—
	Liverpool (Bidston)	30·10	46	W	5	0	30·06	− ·05	46	43	+ 3	WSW	4	c	2	o	48	43	—
	Holyhead ...	30·14	48	WSW	3	og	30·06	− ·09	46	45	− 1	WSW	4	og	3	og	50	45	—
	Parsonstown ...	30·19	49	SW	1	0	30·02	− ·21	46	45	− 2	SW	1	og	*	or	52	44	0·03
	Valencia	30·28	49	SW	3	c	30·09	− ·24	51	49	0	SSW	4	ogm	5	omg,c	52	47	—
	Roche's Point	30·27	50	WNW	3	c	30·13	− ·16	48	47	0	W	3	c	3	c	52	45	—
	Pembroke (St. Ann's Hd.)	30·22	47	WNW	3	c	30·25	− ·09	47	46	0	WSW	4	cg	4	c	49	46	0·01
	Scilly	30·30	50	WNW	4	or	30·29	− ·06	48	47	− 1	WSW	4	cpm	3	or	51	46	0·01
	Prawle Point ...	30·27	48	WNW	2	c	30·25	− ·03	45	45	+ 2	W	3	c	2	op	51	42	0·01
	Jersey (St. Aubin's)	30·27	48	W	4	opg	30·30	+ ·03	47	46	0	W	3	om	3	c,og	51	46	0·01
	Hurst Castle ...	30·20	46	WNW	4	b	30·22	+ ·04	42	41	0	W	4	c	3	c,b	48	40	—
	Dungeness ...	30·07	49	NNW	4	m	30·13	+ ·10	43	42	− 2	WNW	3	o	2	cm	49	41	0·01
	North Foreland	30·06	45	WNW	5	rq	30·10	+ ·12	46	44	+ 3	WNW	4	oq	3	rq	46	43	0·01
	London	30·13	49	WNW	2	0	30·15	+ ·07	45	43	+ 1	WSW	2	o	*	q,c	50	43	—
	Oxford	30·16	46	WNW	1	0	30·16	+ ·02	44	42	+ 3	W	2	o	*	o,b,o	53	41	—
	Cambridge ...	30·09	47	SW	1	c	30·11	+ ·07	46	44	+ 2	SW	1	c	*	c	50	44	—
	Yarmouth ...	30·00	47	NW	3	of	30·03	+ ·09	45	44	+ 1	W	3	cm	3	orf	47	42	0·15
GERMANY & HOLLAND	Cuxhaven ...	29·96	27	SE	1	0	29·89		32	31		SW	2	f	*	0	32	27	—
	Berlin	30·06	11	E	1	b	30·08	+ ·19	7	7	− 1	ESE	2	0	*	b	19	1	—
	Wiesbaden ...	*	*	*	*	*	30·14	+ ·39	29	28	0	NE	1	0	*	*	39	27	0·51
	Munich ...	29·7	21	Z	0	0	30·15	+ ·32	21	21	+ 2	S	3	0	*	0	28	19	0·32
	The Helder ...	? 30·03	39	SE	1	f	? 30·02	+ ·20	37	37	0	W	3	f	3	f	39	33	0·46
BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	30·13	+ ·23	39	39	− 1	SW	2	f	*	r	41	37	0·28
	Cape Gris Nez	30·05	43	WNW	4	r	30·13	+ ·14	42	42	+ 1	W	3	c	3	r	43	39	—
	Paris	30·12	43	WNW	4	0	30·24	+ ·16	42	42	+ 1	W	2	0	*	0	45	41	0·04
	Brest	?	50	NNW	3	m	?	?	50	49	+ 4	NNW	3	0	3	m	52	48	—
	Lorient	30·33	50	NW	4	0	30·25	− ·01	49	48	+ 3	WNW	3	0	3	0	52	46	—
FRANCE AND	Rochefort ...	30·30	44	NW	4	c	30·34	+ ·01	44	44	+ 1	NW	2	f	*	c	46	43	—
	Belfort														*				
	Lyons														*				
	Nice														*				
	Perpignan ...	30·15	52	NW	6	bo	30·24	− ·01	50	44	+ 3	NW	5	bc	*	bc	54	47	—
	Biarritz	30·40	50	NNW	5	r	30·39	− ·06	48	46	0	Z	0	c	2	r	52	45	0·02
PENINSULA.	Corunna	*	*	*	*	*													
	Lisbon	30·40	49	NW	3	b	30·42	− ·02	38	38	− 2	NNE	3	b	*	* b	55	36	—

For Explanation of Columns, see bottom of last page.

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

WEATHER CHARTS

for 8 a.m. on Tuesday, 24th January, 1893.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

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

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

forces above 10; forces 8 to 10; forces 5 to 7; forces 1 to 4.

= dead calm.

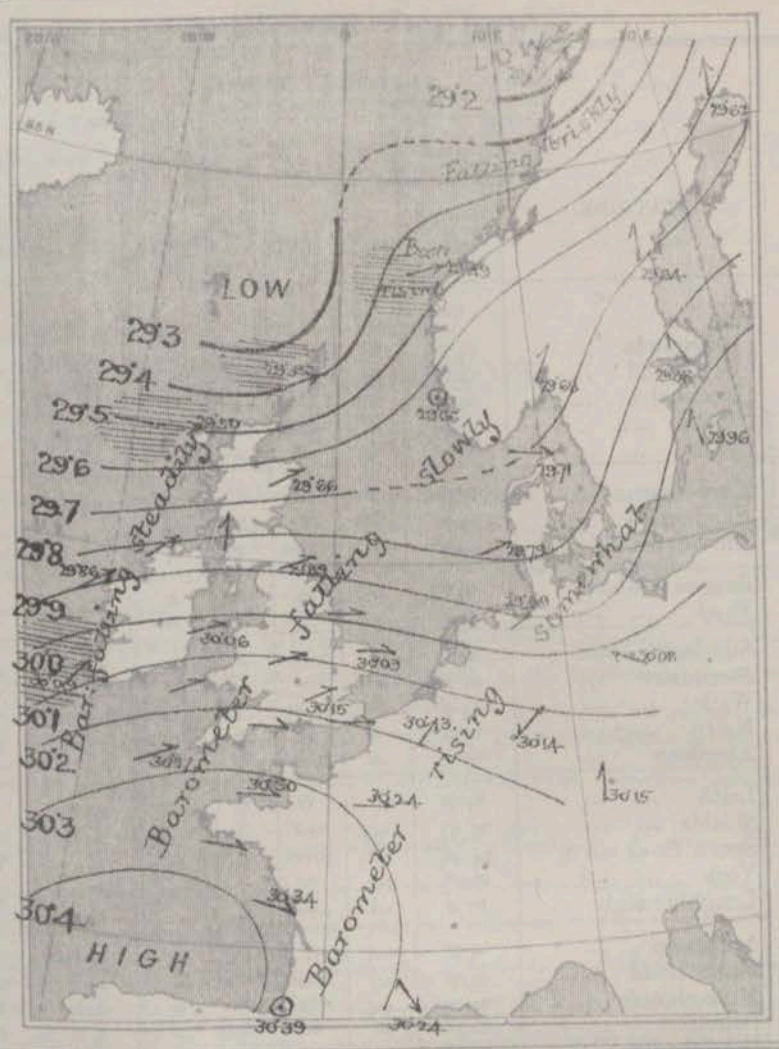
SEA DISTURBANCE—Where considerable, is shown thus:

= Rough. = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of January. During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29·675
Stornoway	29·682
Wick	29·719
Nairn	29·745
Aberdeen	29·787
Leith	29·825
Shields	29·881
Spurn Head	29·926
York	29·932
Loughborough	29·967
Ardrossan	29·848
Mullaghmore	29·817
Donaghadee	29·855
Holyhead	29·902
Liverpool	29·924
Parsonstown	29·895
Valencia	29·887
Roche's Point	29·908
Pembroke	29·936
Scilly	29·969
Prawle Point	30·006
Jersey	30·042
Hurst Castle	30·002
Dover	30·014
LONDON	30·006
Oxford	29·999
Cambridge	29·993
Yarmouth	29·979



TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shown by Letters of the Beaufort Scale.

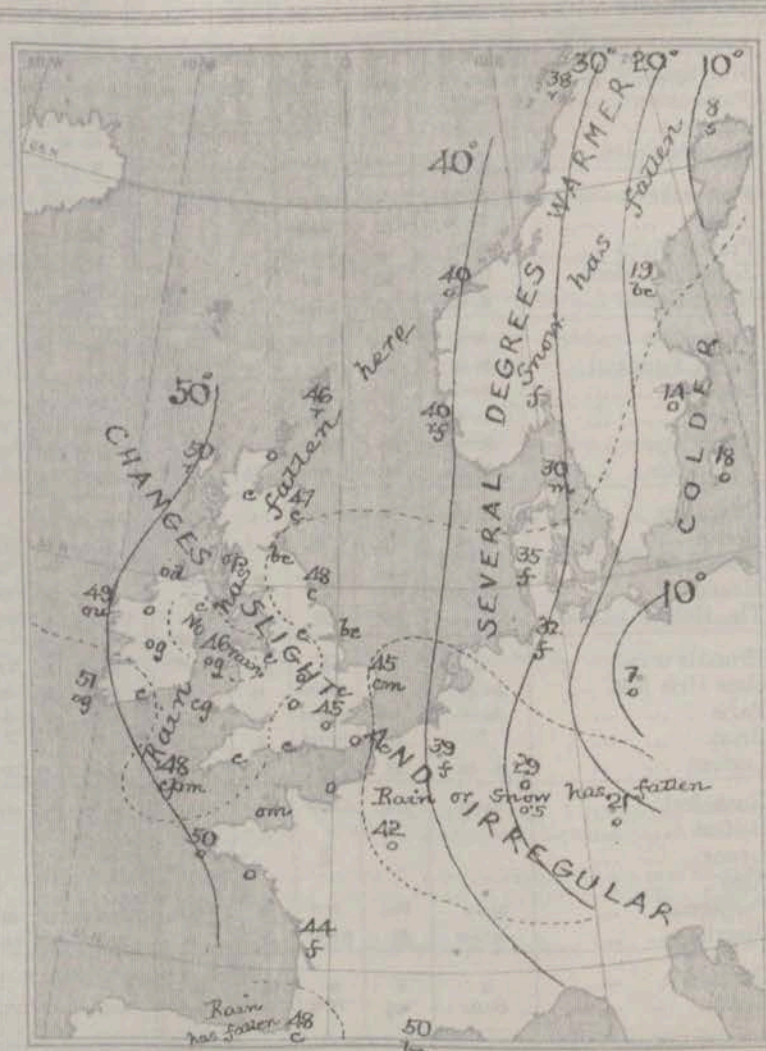
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of January.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	at 8 a.m. Wet.	RAINFALL. (Inches.)
Sumburgh Head	42·9	35·6	39·7	38·4	3·72
Stornoway	44·3	34·5	39·4	38·4	5·50
Wick	42·4	33·3	38·2	36·8	2·05
Nairn	42·2	32·9	37·2	35·6	1·99
Aberdeen	42·4	33·2	37·4	35·6	2·34
Leith	44·4	33·7	38·6	37·2	1·93
Shields	43·0	34·2	38·2	36·9	1·75
Spurn Head	41·7	34·5	37·7	36·7	1·35
York	42·7	32·5	36·7	35·7	1·87
Loughborough	42·0	32·3	36·4	35·4	2·04
Ardrossan	44·2	33·3	40·0	38·5	4·25
Mullaghmore	46·1	38·9	41·6	40·4	4·36
Donaghadee	44·4	36·1	40·8	39·2	2·98
Holyhead	45·0	38·7	41·7	40·3	3·38
Liverpool	45·5	35·2	38·6	37·0	2·22
Parsonstown	45·0	34·2	38·9	37·8	3·12
Valencia	49·5	46·4	44·5	43·3	6·69
Roche's Point	47·7	39·5	43·2	41·9	5·50
Pembroke	45·5	39·6	42·7	41·3	3·75
Scilly	48·8	42·9	45·4	44·9	3·73
Prawle Point	46·2	37·6	42·9	41·0	3·09
Jersey	45·8	38·3	41·5	40·4	3·21
Hurst Castle	45·0	36·3	40·3	38·5	2·94
Dover	43·5	35·8	39·2	38·1	2·58
LONDON	44·1	33·8	37·6	36·6	2·12
Oxford	44·1	33·6	37·1	36·1	2·20
Cambridge	43·3	31·7	36·2	35·4	1·54
Yarmouth	44·6	34·8	37·5	36·7	1·95

NOTE—The Temperature means are for the 20 years 1871-90, the Rainfall means are monthly those for the 25 years 1866-90.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30·4 ins. and more to 30·0 ins. over the Peninsula, the Bay of Biscay, France and the S. of our Islands.
Lowest 29·2 ins. and less over Finmark, 29·4 ins. and less over the Shetlands.
Gradients rather steep both over the north of Scandinavia, and the north and northwest of our Islands.
Barometer very unsteady in the N. falling steadily over Ireland; rising over Germany and the E. of France.

TEMPERATURE

Highest 57° at Valencia (Ireland), 50° at Brest and Stornoway, 49° at Belmullet, 47° at Malin Head and Jersey. Above 40° in all part of our Islands.
Lowest (1) 7° at Berlin, 24° at Munich; (2) 8° at Haparanda, 16° at Stockholm.
The maxima recorded yesterday ranged between 55° and 53° over the greater part of our Islands, and 52° to 54° in the southwest of France.

WIND

Fresh from SW in Ireland; strong W.by.N. in the north of Scotland; strong SW.by.W. in the west of Norway; moderate S.by.E. over Sweden.
Over England and the north of France it is moderate to light from W; and, over the Bay of Biscay from NW. It appears to be freshening at the Irish stations.

WEATHER

Fair at our northeastern and eastern stations, dull and unsettled in the north and west, rainy in the extreme northwest and north of our Islands, and in the west of Norway. Belmullet reports an ugly appearance.
A little rain has fallen in the southwest, west and northwest and a larger quantity over western and southern Germany, and at Swinburgh Hd and Christiansund. A Lunar halo was seen at Jersey yesterday.

SEA

Rough in the north and extreme west, moderate in the NW. slight to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A series of depressions appear to be advancing towards our west and northwest coasts from the Atlantic, and seem likely to cause mild, windy, showery weather in many places – especially in the west and northwest. These latter coasts have been warned this morning.

FORECASTS

For the 24 hours ending at NOON on 25TH JAN. 1893.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
↑ 0 SCOTLAND NORTH	SW.by.W. winds, strong, a gale in places; rainy, mild.	↑ 6 SCOTLAND WEST	SW.by.W. to S.by.E. gales and strong winds, squally, rainy.
1 SCOTLAND EAST	SW.by.W. winds, increasing in strength; fair to showery and unsettled.	7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	Same as Nos 1 and 2.
3 ENGLAND EAST	W.by.S. winds, moderate; fair, mild, then SW.by.W. stronger; and showery.	↑ 9 IRELAND NORTH	Same as Nos 6 and 7.
4 MIDLAND COUNTIES		↑ 10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	At 10.15 am. to districts 0, 6, 9 and 10. Hoist South Cone.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.79	56	53	SSE	6	fd	4
Sumburgh Head	29.58	46	46	WNW	4	fm	4
Stornoway	29.79	50	50	W	5	f	5
Aberdeen	29.82	52	49	W	4	c	1
Shields	29.96	51	49	WSW	4	c	2
Ardrossan	30.01	50	49	W	4	cp	2
Malin Head ...	30.01	47	47	WSW	5	o	3
Mullaghmore ...	30.12	49	48	WSW	4	omg	3
Belmullet	30.14	50	49	SW	3	o	*
Holyhead	30.15	49	48	WSW	4	og	4

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30.30	53	49	WSW	5	omg	4
Scilly	30.31	51	50	WNW	4	o	3
Jersey	30.26	51	48	NE	3	ogm	3
Hurst Castle ...	30.18	47	46	WNW	5	c	3
Dungeness... ...	30.04	48	46	NW	4	c	2
North Foreland...	30.01	45	44	WNW	5	o	3
London (Westminster)	30.08	51	49	W	2	c	*
Yarmouth	29.95	47	46	NW	4	ofg	4
Rochefort	30.30	46	40	NW	4	o	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather cloudy or overcast in most parts of our Islands and the Continent, with fog at some of the Scandinavian stations, rain in the Shetlands, and also in the Netherlands, and snow in several parts of Russia, Germany and central France. Fine and bright in Spain, the south of Italy, the extreme south of France and some parts of eastern Germany. Slight rain falling later over the northern and southern parts of the United Kingdom generally and large quantities of snow in Germany.

Temperature risen in most parts of western Europe and also in the south of Russia, but fallen elsewhere. Morning reading highest (1) 51° at Valencia Island, and 50° at Leith, Belmullet and Donaghadee; (2) 50° at La Calle, and 49° at Algiers - Lowest 3° at Archangel, 10° at Moscow and Riga and Kiev and 5° at Wladog; below 20° in nearly all parts of northern, eastern and central Europe and below the freezing point in Italy. Rising during day to between 50° and 53° in most parts of the United Kingdom and also in the west and south of France; remaining below the freezing point in Germany.

Wind light to fresh from the W^rly or NW^rly over the greater part of our Islands and France, but SW^rly in the north of Ireland. SE^rly on the eastern shores of the North Sea, but calm over the northern parts of Sweden. Cyclonic circulations of light breezes reported respectively over the Baltic and neighbouring provinces and over the Netherlands and western Germany. N^rly or NW^rly over the south of Russia and also over Italy and Tunis. Subsequently backing to the SW. in the western and northern parts of our Islands generally.

Barometer highest 30.4 ins. and upwards in an anticyclone lying over Spain and the Bay of Biscay, 30.2 ins. and upwards in another area lying over central Russia. Lowest 29.6 ins. and less in a depression off the west of Norway, 29.7 ins. and less in two other systems lying respectively over the Baltic provinces and over N. Germany. German depression filling up later, no important change occurring elsewhere.

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 made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway and Germany, and 9 p.m. in Belgium. 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 Wednesday, 25th January, 1893

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. Reading at 32° F. and Sea Level.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	THIS MORNING. (See note at bottom of last page.) Barometer. Reading at 32° F. and Sea Level.	Change since Yesterday Morn.	Shade Temp. Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	Sea (0 to 9).	PAST 24 HOURS. Weather.	Shade Temp. Max	Shade Temp. Min.	Amount of Rainfall.
		Ins.	°				Ins.		°	°	°							°	Ins.
SCANDINAVIA.	Haparanda ...	29.54	19	SW	6	0	29.89	-.23	20	?	+ 12	SW	6	S	*	0	20	8	0.12
	Hernösand ...	29.53	27	S	6	S	29.43	-.21	25	24	+ 6	S	2	c	*	S	27	12	0.12
	Stockholm ...	29.71	27	S	2	0	29.56	-.82	30	30	+ 16	S	4	S	*	0	30	3	0.04
	Wisby	29.82	23	SSW	4	b	29.67	-.29	28	27	+ 10	SSW	6	S	*	b	28	18	0.04
	Bodö	29.02	34	E	5	0	29.06	-.13	33	32	- 5	SW	4	r	2	0	38	30	-
	Christiansund...	29.19	39	NSW	8	r	29.48	-.01	35	33	- 5	NSW	6	c	5	r	41	35	0.16
	Skudesnaes ...	29.63	43	NSW	2	r	29.58	-.08	40	37	0	NNW	5	0	4	r	43	37	-
	Christiania Fjord (Faerder)	29.50	31	SSW	4	f	29.49	-.19	32	31	+ 1	W	4	b	1	r, f	32	28	-
	Skagen (The Scaw)	29.56	36	NSW	4	f	29.58	-.13	36	35	+ 6	W	3	m	2	f	36	30	-
	Fanö	29.75	35	NNW	4	0	29.76	-.03	35	35	0	W	4	b	*	0	36	34	0.04
BRITISH ISLANDS	Sumburgh Head	29.32	45	W	5	0	29.69	+.34	36	36	- 10	2	0	0	5	0	48	36	0.16
	Stornoway ...	29.51	45	W	5	0	29.83	+.33	36	36	- 14	W	3	bc	4	0	50	35	0.20
	Wick	29.50	42	NW	4	bc	29.79	+.27	36	35	- 11	NW	3	0	3	bc	49	35	0.12
	Nairn	29.58	45	SW	2	b	29.86	+.28	39	36	- 10	2	0	0	1	b	50	35	0.22
	Aberdeen ...	29.62	45	NSW	3	bc	29.87	+.21	39	37	- 8	W	1	cm	2	cg, bc	51	39	-
	Leith	29.72	44	W	4	bc	29.93	+.17	42	40	- 5	NSW	4	b	*	bc	52	40	0.01
	Shields	29.79	50	NSW	2	ou	29.97	+.08	42	40	- 6	W	3	b	2	c, o, r	52	40	-
	Spurn Head ...	29.92	43	SW	3	c	30.05	+.06	38	37	- 4	NSW	3	bw	3	c	47	37	-
	York	29.91	48	W	3	o	30.06	+.07	42	40	- 4	NSW	2	b	*	o	50	39	-
	Loughborough	30.03	47	NSW	3	bc	30.14	+.05	37	36	- 8	NW	1	bw	*	bc	51	37	-
	Ardrossan ...	29.79	46	NSW	4	c	29.97	+.13	43	42	- 4	NSW	4	b	3	r. c	48	41	0.06
	Malin Head ...	29.82	44	NSW	4	b	29.97	+.19	41	40	- 6	SW	4	bc	3	or, b	47	40	0.07
	Mullaghmore ...	29.92	45	NSW	4	b	30.03	+.16	42	40	- 7	SW	3	bc	3	o r g, p	50	40	0.08
	Belmullet ...	29.97	48	W	4	cp	30.04	+.18	44	42	- 5	SW	3	o	*	o. cp	49	42	0.21
	Donaghadee ...	29.90	45	W	5	bc	30.04	+.11	39	38	- 7	W	4	b	3	bc	51	35	0.02
	Liverpool (Bidston)	29.94	48	NSW	4	o	30.12	+.06	43	41	- 3	NSW	3	b	2	o	51	43	0.05
	Holyhead ...	29.95	49	SW	4	ogm	30.11	+.05	43	42	- 3	NSW	3	bw	2	cg, omg	49	42	0.01
	Parsonstown ...	30.04	45	SW	1	b	30.11	+.09	37	36	- 9	2	0	c	*	b	51	36	0.04
	Valencia	30.14	49	W	1	bcm	30.13	+.04	42	41	- 9	ESE	1	c	1	ombcm	52	39	0.01
	Roche's Point	30.11	48	WNW	2	b	30.17	+.04	37	36	- 11	NW	1	bw	3	b	50	35	-
	Pembroke (St. Ann's Hd.)	30.08	49	NSW	5	r	30.18	+.03	41	40	- 6	SE	1	f	4	r	48	40	0.05
	Scilly	30.21	49	SW	5	cw	30.16	-.11	48	45	0	ESE	1	cm	3	cp	50	47	0.04
	Prawle Point ...	30.23	45	W	4	b	30.22	-.03	40	40	- 5	NE	3	b	2	p, b	48	39	0.09
	Jersey (St. Aubin's)	30.31	47	NSW	3	c	30.27	-.03	45	44	- 2	SSW	2	rf	2	pcg	51	44	0.12
	Hurst Castle ...	30.19	43	NSW	5	c	30.21	-.01	37	37	- 5	NSW	1	f	3	c	49	37	0.01
	Dungeness ...	30.14	43	W	4	o	30.18	+.05	38	38	- 5	W	1	mw	1	o	45	37	-
	North Foreland	30.10	46	NSW	4	ogq	30.14	+.04	40	40	- 6	W	2	bm	2	ogq	48	39	-
	London	30.14	49	NSW	2	o	30.20	+.05	40	40	- 5	W	1	om	*	c, o	49	39	-
	Oxford	30.11	46	NSW	3	bc	30.19	+.03	38	38	- 6	NSW	1	f	*	bc, q	48	38	-
	Cambridge ...	30.08	47	SW	2	c	30.17	+.06	37	36	- 9	SW	1	b	*	c, b	49	36	-
	Yarmouth ...	30.02	46	W	3	c	30.09	+.06	38	37	- 7	WNW	4	bcm	3	bc, c	47	36	-
GERMANY & HOLLAND	Cuxhaven ...	29.87	36	W	3	c	29.91	+.02	36	35	+ 4	W	3	b	*	c	37	32	0.50
	Berlin	29.89	30	2	0	r	29.91	-.17	37	36	+ 30	W	3	o	*	r	37	?	0.16
	Wiesbaden ...	*	*	*	*	*	30.17	+.03	37	36	+ 8	SW	1	o	*	*	39	29	0.04
	Munich ...	30.15	34	SW	5	r	30.21	+.06	35	35	+ 14	W	6	o	*	r	36	21	0.43
	The Helder ...	30.03	39	SW	5	c	30.08	+.06	37	37	0	W	4	b	3	c	41	37	-
BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	30.19	+.06	41	41	+ 2	NSW	1	f	*	o	41	38	0.08
	Cape Gris Nez	30.13	42	W	5	o	30.15	+.02	40	40	- 2	W	3	f	4	o	43	39	-
	Paris	30.30	43	NSW	2	o	30.29	+.05	38	37	- 4	SW	2	o	*	o	47	37	-
	Brest	?	46	NSW	3	r	?	?	49	48	- 1	NSW	3	c	4	r	50	46	-
	Lorient	30.36	50	NSW	2	c	30.28	-.07	48	44	- 1	NSW	3	o	2	c	50	46	0.04
FRANCE AND	Rochefort ...	30.37	44	NW	1	o	30.33	-.01	41	41	- 3	SSW	3	o	*	m. o	50	39	-
	Belfort														*				
	Lyons	30.38	40	NN	3	o	30.41		38	36		NW	1	o	*	o	43	35	-
	Nice	30.21	42	2	0	0	30.15	+.16	43	39	+ 6	E	2	o	3	o	48	37	-
	Perpignan ...	30.37	49	N	3	b	30.32	+.08	44	41	- 6	NNE	2	b	*	b	56	38	-
	Biarritz	30.38	51	NNW	3	o	30.31	-.08	46	45	- 2	E	2	o	2	o	52	45	0.04
PENINSULA.	Corunna	*	*	*	*	*										*			
	Lisbon	30.39	47	NNW	3	b	30.35	-.07	36	36	- 2	NNE	3	b	*	b	54	36	-

For Explanation of Columns, see bottom of last page.

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

WEATHER CHARTS

for 8 a.m. on Wednesday, 25th Jan: 1893.

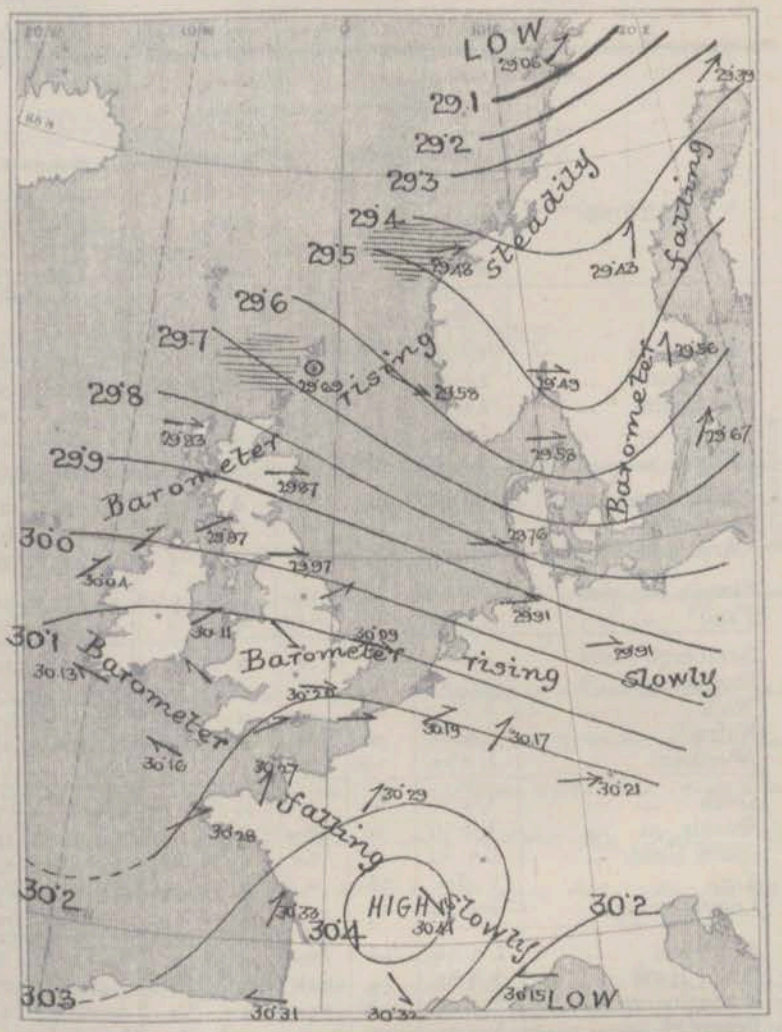
BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

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

WIND — Arrows shew the prevailing winds. They fly with the wind and their barbs and feathers refer to force thus —
forces above 10; forces 8 to 10;
forces 5 to 7; force 1 to 4.
dead calm.

SEA DISTURBANCE — Where considerable, is shewn thus:
Rough. High.



MEAN HEIGHT OF THE BAROMETER

at 8·0 a.m. for the month of January.
During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29·675
Stornoway	29·682
Wick	29·719
Nairn	29·745
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York	29·932
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Ardrossan	29·838
Mullaghmore	29·817
Donaghadee	29·855
Holyhead	29·902
Liverpool	29·924
Parsonstown	29·895
Valencia	29·887
Roche's Point	29·908
Pembroke	29·936
Scilly	29·969
Prawle Point	30·006
Jersey	30·022
Hurst Castle	30·002
Dover	30·012
LONDON	30·006
Oxford	29·989
Cambridge	29·993
Yarmouth	29·979

TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE — Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

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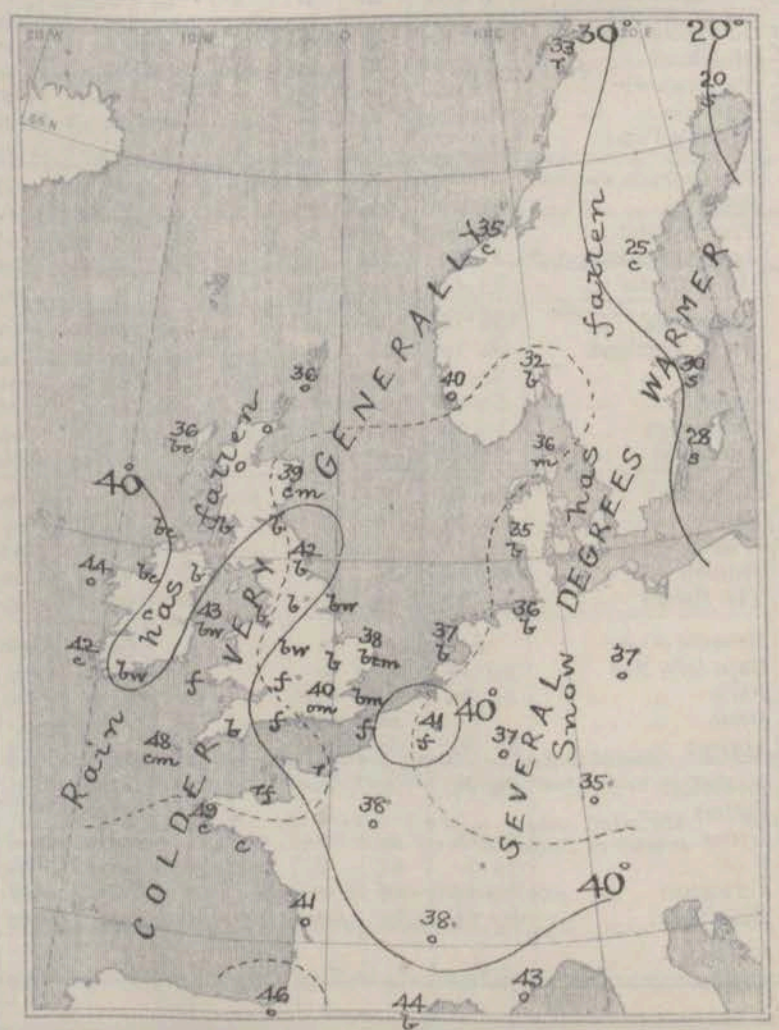

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of January.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Hgr.	at 8 a.m. Wgr.	RAINFALL. (Inches.)
Sumburgh Head	42·9	35·6	39·7	38·4	3·72
Stornoway	43·3	34·5	39·5	38·4	5·50
Wick	42·1	35·3	38·2	36·8	2·05
Nairn	42·2	32·0	37·2	35·6	1·99
Aberdeen	42·4	35·2	37·8	35·6	2·31
Leith	44·4	35·7	38·6	37·2	1·93
Shields	45·0	34·2	38·2	36·9	1·75
Spurn Head	41·7	34·5	37·7	36·7	1·35
York	42·7	32·5	36·7	35·7	1·87
Loughborough	43·0	31·3	36·4	35·1	2·04
Ardrossan	44·2	36·3	40·0	38·5	4·25
Mullaghmore	46·1	38·0	41·6	40·4	4·30
Donaghadee	44·4	36·4	40·0	39·2	2·98
Holyhead	45·6	38·7	41·7	40·3	3·38
Liverpool	43·5	35·2	38·6	37·0	2·22
Parsonstown	46·5	34·2	38·9	37·8	3·12
Valencia	49·3	40·4	44·5	43·3	6·69
Roche's Point	47·7	39·0	43·2	41·9	5·50
Pembroke	46·3	39·6	42·7	41·3	3·75
Scilly	48·8	42·9	46·4	44·2	3·73
Prawle Point	46·2	37·6	42·0	41·0	3·09
Jersey	45·8	38·0	41·8	40·4	3·21
Hurst Castle	45·0	36·3	40·3	39·5	2·94
Dover	43·5	35·8	39·2	38·1	2·58
LONDON	44·1	34·8	37·6	36·6	2·12
Oxford	43·1	33·6	37·1	36·1	2·26
Cambridge	43·3	34·7	36·2	35·4	1·54
Yarmouth	41·5	34·8	37·5	36·7	1·95

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·4 ins: and more to 30·2 ins: over Spain, France, the Channel, and the Bay of Biscay.
Lowest, 29·1 ins: and less to 29·4 ins: over Finmark and Lapland.
Gradients moderate in the north and east, slight elsewhere.
Barometer rising over Scotland and the North Sea, falling in Lapland, as well as on our southwest coasts and over the Bay of Biscay.

TEMPERATURE

Highest, 49° at Brest, 48° at Lorient and Scilly, 45° at Jersey, and 44° at Belmullet.
Lowest, 20° at Haparanda, 25° at Hernösand, and 28° at Wick.
It is above the freezing point throughout Germany, France, and the British Islands, but while it has risen rapidly over Germany it has begun to fall quickly over the United Kingdom and France.

WIND

W. and SW. fresh to strong over Norway and Lapland, S. moderate over Sweden; W. moderate to light in Scotland; SW. in the north of Ireland, very variable over the northern parts of Ireland and England.
Over Brittany and the north of France it is SW., light.

WEATHER

(1) Variable and unsettled over Scandinavia, with rain at Bodö, snow at Haparanda and Wick.
(2) Fair over our Islands as a whole, but dull and foggy over some parts of our southern counties and in Belgium.
(3) Dull over France and raining at Jersey and Havre.

SEA

Rather rough but decreasing in the far north, moderate at some of the southwestern and southern stations, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The southwesterly to westerly current of wind appears to be dying out over our Islands and an E. breeze (of little strength at present) is appearing in the southwest. The latter seems likely to spread northwards and eastwards.

FORECASTS

For the 24 hours ending at NOON on 26th January 1893.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST 2 ENGLAND N.E.	W. and SW. winds, moderate or light; fair.
3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	Very Variable airs and Calms; fair, but foggy or very hazy in London.
6 SCOTLAND WEST 7 ENGLAND N.W.	SW. winds, moderate; a few showers.
8 ENGLAND S.W.	E. and Varying breezes, light; weather doubtful.
9 IRELAND NORTH 10 IRELAND SOUTH	SE. or E. breezes, light; weather uncertain at present.
WARNINGS	Signals all lowered this morning.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.55	42	42	S	4	rf	3
Sumburgh Head	29.34	46	45	W	6	o	6
Stornoway	29.52	47	46	W	6	o	5
Aberdeen	29.58	51	46	SW	4	c q	2
Shields	29.82	51	47	WSW	3	c	2
Ardrossan	29.75	47	46	WSW	3	r	3
Malin Head ...	29.75	45	44	WSW	5	o	3
Mullaghmore ...	29.86	46	46	WSW	4	o r q	4
Belmullet	29.89	49	47	W	3	o	*
Holyhead	29.95	48	47	SW	5	c q	4

	BAR.	THER. Dry.	THER. Wet	WIND. Direc.	F.	WEA.	SEA.
Valencia	30.08	49	48	WSW	3	o m	4
Scilly	30.23	50	48	SW	5	c p	3
Jersey	30.32	49	47	WNW	3	c	3
Hurst Castle ...	30.21	44	43	WSW	4	c	3
Dungeness	30.14	43	42	WNW	4	o	3
North Foreland ...	30.11	47	45	W	3	o	3
London (Westminster)	30.15	49	46	WSW	2	o	*
Yarmouth	30.02	47	45	W	3	b c	3
Rochefort	30.37	46	46	Z	0	m	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather dull in the west and north of our Islands, with rain in the Shetlands and Hebrides, and with passing showers at several of our northwestern stations; fair in the east and south generally. Dull in all but the southern parts of the Continent, with fog in Denmark and the Netherlands as well as at some of the Russian and Austrian stations; snow falling at Haparanda, Ulleaborg, and Nieufahrwasser. Rain occurring during day in the west, south, and extreme north of our Islands, as well as in Germany; snow falling over Sweden.

Temperature rises over England, France, Italy, and the eastern shores of the North Sea, fallen elsewhere. Morning readings highest (1) 54° at La Calle, 51° at Barcelona, and 50° at Cagliari and Tunis; (2) 51° at Valencia Island and 50° at Stornoway and Brest; above 45° in most parts of the United Kingdom. Lowest −10° F. at Helsingfors, −5° at Hangö, and −3° at St Petersburg and Memel; below 10° in Austria, Poland, and many parts of Eastern Germany; below the freezing point over northern Italy. Rising during day to between 50° and 52° in most parts of the United Kingdom, as well as in the west and south of France, but reaching 56° at Perpignan.

Wind SW^{ly} or W^{ly} over our Islands and on the eastern shores of the North Sea, fresh or strong in force on our extreme north and northwest coasts, S^{ly} in Sweden and Finland. Light from the NW^{ly} or W^{ly} over France, Austria, and the south of Russia; NE^{ly} in Spain and Italy. Strong from the NW^{ly} in Tunis and Eastern Algeria, with a gale at La Calle. Subsequently falling moderate on our northwest coasts, but increasing to a strong breeze from the W^{ly} in the northeast of Scotland.

Barometer highest 30·2 ins. to 30·5 ins. in an anticyclone lying over France, Spain, Algeria, and the south of England; 30·2 ins. and upwards in another system over Central Russia. Lowest 29·2 ins. and less, in a depression lying off the northwest of Norway; 29·3 ins. and less, in another disturbance near the Shetlands, 29·9 ins. and less, in a shallow system lying to the southward of Italy. Depressions in north subsequently moving eastwards, and barometer rising on our extreme north and northwest coasts.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

N.B.—The morning observations are made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. 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, 26th January, 1893

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. Reading at 32° F. and Sea Level.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	THIS MORNING. (See note at bottom of last page.) Barometer. Reading at 32° F. and Sea Level.	Barometer. Change since Yesterday Morn.	Shade Temp. Dry Bulb.	Shade Temp. Wet Bulb.	Shade Temp. Change in dry since Yesterday.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	Sea (0 to 9).	PAST 24 HOURS. Weather.	Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
		Ins.	°				Ins.		°	°	°							°	Ins.
Scandinavia	Haparanda ...	29.60	24	SW	2	b	29.84	+.45	3	2	− 17	Z	0	b	*	b	27	?	-
	Hernösand ...	29.75	22	Z	0	c	29.95	+.52	7	6	− 18	Z	0	b	*	c	28	?	-
	Stockholm ...	29.68	34	Z	0	o	29.95	+.39	27	26	− 3	N	2	o	*	o	36	25	0.08
	Wisby	29.71	34	SSW	4	o	29.90	+.23	33	33	+ 5	SW	2	?	*	o	36	18	0.08
	Bodö	29.58	31	W	6	b	29.71	+.63	26	24	− 7	ESE	4	c	2	b	36	21	-
	Christiansund...	29.77	33	S	2	b	29.73	+.25	37	33	+ 2	SSE	1	b	4	b	37	32	-
	Skudesnaes ...	29.96	36	WNW	1	b	29.91	+.33	37	35	− 3	SE	b	o	3	c, b	40	34	-
	Christiania Fjord (Faerder)	29.82	32	NW	4	o	30.03	+.54	27	26	− 5	Z	o	b	3	o	34	27	-
	Skagen (The Scaw)	29.91	34	N	4	c	30.05	+.47	26	24	− 10	Z	o	b	o	c	36	25	-
	Fanö	30.01	33	W	4	b	30.08	+.32	31	30	− 4	Z	o	b	*	b	37	30	-
British Islands	Sumburgh Head	29.75	41	W	4	r	29.36	−.33	42	41	+ 6	SSE	6	r	6	bc, r	43	36	0.07
	Stornoway ...	29.80	41	SW	3	bc	29.24	−.59	39	39	+ 3	SW	2	r	4	b, bc	46	35	0.20
	Wick	29.83	39	W	3	b	29.23	−.56	41	41	+ 5	S	7	ru	5	b	43	35	0.12
	Nairn	29.86	39	Z	0	c	29.23	−.63	41	40	+ 2	Z	0	c	1	c	44	33	0.05
	Aberdeen ...	29.93	37	SW	1	bc	29.35	−.52	41	40	+ 2	SSE	8	ogqr	6	b, bc	44	35	0.18
	Leith	29.96	40	WSW	1	m	29.32	−.61	47	43	+ 5	SSW	4	bc	*	m	47	37	-
	Shields	30.03	42	SW	1	m	29.53	−.44	44	42	+ 2	SSW	6	o	2	bc, m	46	39	-
	Spurn Head ...	30.07	38	SSE	2	bm	29.76	−.29	41	41	+ 3	S	4	o	3	bm, f	42	37	-
	York	30.08	43	W	1	b	29.70	−.36	45	43	+ 3	S	4	o	*	b	48	33	-
	Loughborough	30.11	40	SSW	1	c	29.83	−.31	44	42	+ 7	SSW	4	oq	*	c	51	35	0.01
	Ardrossan ...	29.95	42	SSW	1	c	29.30	−.67	44	43	+ 1	S	7	d	6	o, c	46	39	0.20
	Malin Head ...	29.87	42	SSE	4	o	29.43	−.54	41	40	0	NW	5	eqr	4	o	44	40	0.11
	Mullaghmore ...	29.87	46	S	5	oq	29.58	−.45	44	41	+ 2	W	5	oqrp	4	om, oq	49	41	0.07
	Belmullet ...	29.81	45	ESE	3	o	29.67	−.37	44	39	0	NW	3	b	*	o	47	41	0.50
	Donaghadee ...	29.97	42	S	3	c	29.48	−.56	44	42	+ 5	WNW	6	c	4	c	46	38	0.23
	Liverpool (Bidston)	30.05	42	SE	1	b	29.69	−.43	45	44	+ 2	SSE	2	o	2	b	51	36	-
	Holyhead ...	30.03	42	SSW	2	oqm	29.66	−.45	45	44	+ 2	SW	4	oq	4	c, oqm	48	40	0.10
	Parsonstown ...	29.91	43	SW	1	f	29.70	−.41	42	41	+ 5	Z	0	r	*	c, or	48	35	0.32
	Valencia	29.79	49	S	5	rqm	29.80	−.33	45	41	+ 3	NNW	4	cp	4	rqm	51	41	0.87
	Roche's Point	29.92	47	SSW	5	rm	29.75	−.42	45	44	+ 8	N	4	o	4	f m, r	49	37	0.25
	Pembroke (St. Ann's Hd.)	30.01	42	SE	3	c	29.73	−.45	46	46	+ 5	SSW	6	rqm	6	o, c	47	39	0.33
	Scilly	30.08	49	SSW	4	c	29.78	−.38	48	48	0	SSW	6	r	5	f, c	50	47	0.10
	Prawle Point ...	30.09	46	SSW	4	o	29.88	−.34	45	45	+ 5	SSW	5	rmw	4	o rm	47	39	0.17
	Jersey (St. Aubin's)	30.19	47	SSW	3	om	30.03	−.24	44	43	− 1	SSE	3	omp	3	r, om	48	43	0.04
	Hurst Castle ...	30.15	39	E	1	f	29.95	−.26	44	43	+ 7	NSW	6	cpd	3	f	46	37	-
	Dungeness ...	30.18	40	W	2	o	30.00	−.18	41	40	+ 3	SW	5	o	4	f	42	37	0.03
	North Foreland	30.15	40	WSW	1	f	29.98	−.16	42	41	+ 2	SSW	2	og	2	cf	43	35	0.03
	London	30.17	39	SSW	2	o	29.95	−.25	43	42	+ 3	SSW	4	o	*	o, od	44	36	-
	Oxford	30.11	37	SSW	1	o	29.89	−.30	44	42	+ 6	S	3	oqu	*	o, r	45	36	0.05
	Cambridge ...	30.13	37	SW	1	c	29.88	−.29	43	42	+ 6	S	3	o	*	c	50	35	0.05
	Yarmouth ...	30.12	42	Z	0	b	29.94	−.15	41	40	+ 3	SW	4	c	3	b	45	34	0.01
Germany & Holland	Cuxhaven ...	30.03	34	SSE	3	o	30.14	+.23	34	33	− 2	WSW	1	f	*	o	38	33	0.02
	Berlin	30.04	37	NNW	3	o	30.10	+.19	34	33	− 3	WNW	3	o	*	o	37	34	-
	Wiesbaden ...	*	*	*	*	*	30.21	+.04	33	32	− 4	Z	0	o	*	*	37	30	-
	Munich ...	30.24	36	SW	5	o	30.19	−.02	33	33	− 2	SSE	3	o	*	o	37	32	0.04
	The Helder ...	30.17	37	SW	1	b	30.10	+.02	34	34	− 3	SSE	2	f	1	b	39	34	-
France and Belgium	Brussels (9 a.m.)	*	*	*	*	*	30.11	−.08	37	37	− 4	SE	2	r	*	o	42	32	-
	Cape Gris Nez	30.16	39	WSW	2	o	30.03	−.12	38	38	− 2	S	5	o	4	o	45	37	-
	Paris	30.25	43	SSW	2	c	30.17	−.12	31	31	− 7	S	2	c	*	c	?	?	-
	Brest	?	48	SW	2	c	?	?	48	47	− 1	SW	5	o	4	c	54	46	0.04
	Lorient	30.20	47	SSW	3	c	30.01	−.27	47	45	− 1	SSW	5	o	4	c	50	45	-
	Rochefort ...	30.23	46	SE	1	o	30.13	−.20	44	41	+ 3	SSE	2	o	*	o	52	39	-
	Belfort														*				
	Lyons	30.29	37	NNW	2	b	30.24	−.17	29	29	− 9	ENE	1	f	*	b	45	25	-
	Nice														*				
	Perpignan ...	30.20	46	NW	2	b	30.17	−.15	40	39	− 4	SW	2	o	*	b	55	34	-
	Biarritz	30.21	49	E	4	o	30.13	−.18	38	36	− 8	SSE	3	b	2	o	52	34	-
Peninsula	Corunna	*	*	*	*	*										*			
	Lisbon	30.23	48	E	2	b	30.20	−.15	41	40	+ 5	NNE	4	o	*	b	54	36	-

For Explanation of Columns, see bottom of last page

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

WEATHER CHARTS

for 8 a.m. on Thursday, 26th January, 1893.

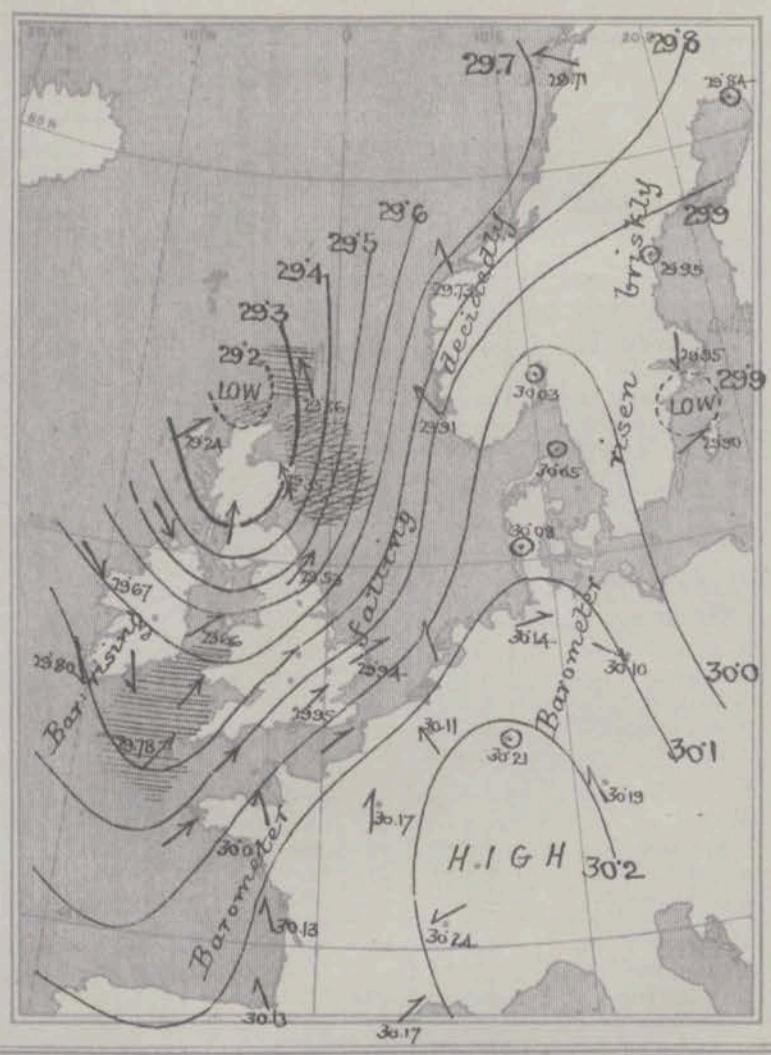
BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

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

WIND—Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus:—
⟶ = forces above 10; ⟶ = forces 8 to 10;
⟶ = forces 5 to 7; ⟶ = forces 1 to 4.
○ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:
= Rough. = High.



MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of January.
During the 20 Years: 1871—1890.

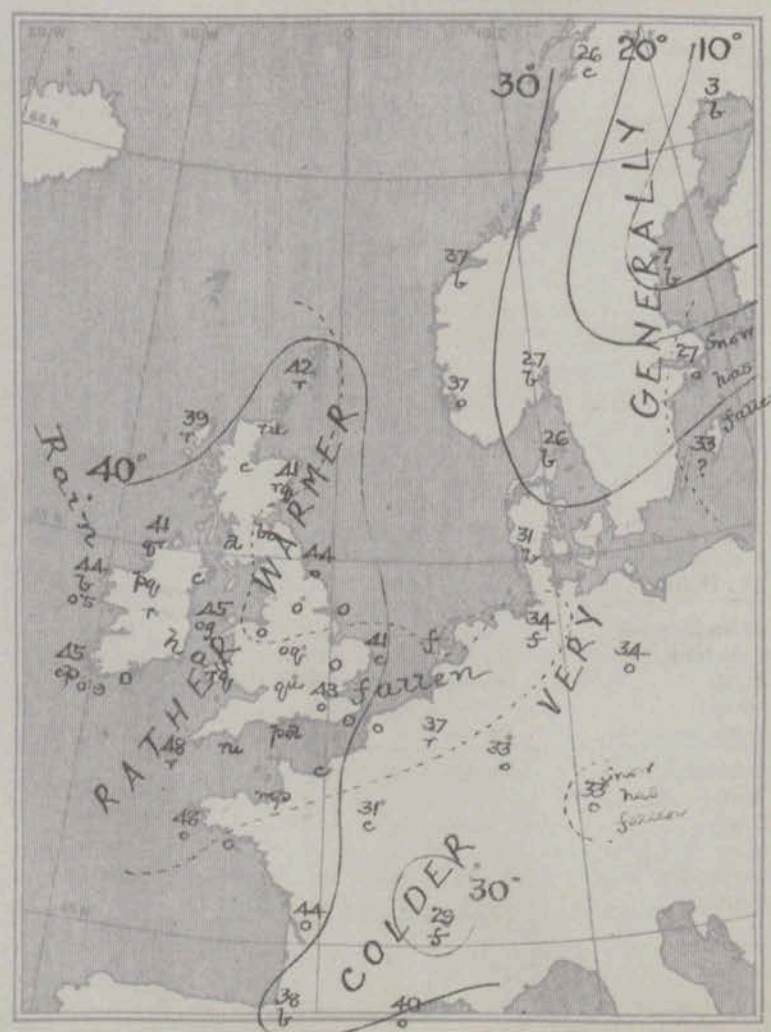
STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29·675
Stornoway	29·682
Wick	29·719
Nairn	29·745
Aberdeen	29·787
Leith	29·825
Shields	29·881
Spurn Head	29·926
York	29·932
Loughborough	29·967
Ardrossan	29·838
Mullaghmore	29·817
Donaghadee	29·850
Holyhead	29·902
Liverpool	29·924
Parsonstown	29·895
Valencia	29·887
Roche's Point	29·908
Pembroke	29·938
Scilly	29·969
Prawle Point	30·006
Jersey	30·012
Hurst Castle	30·002
Dover	30·013
LONDON	30·006
Oxford	29·999
Cambridge	29·993
Yarmouth	29·979

TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.



MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of January.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	RAINFALL. (*Inches.*)
Sumburgh Head	42·9	35·6	39·7	38·4	3·72
Stornoway	43·3	34·5	39·5	38·4	5·30
Wick	42·4	33·5	38·2	36·8	2·05
Nairn	42·2	32·9	37·2	35·6	1·99
Aberdeen	42·4	33·2	37·3	35·6	2·31
Leith	44·4	33·7	38·6	37·2	1·93
Shields	43·0	34·2	38·2	36·9	1·75
Spurn Head	41·7	34·5	37·7	36·7	1·85
York	42·7	32·5	36·7	35·7	1·87
Loughborough	43·0	31·3	36·4	35·4	2·04
Ardrossan	44·2	36·3	40·0	38·8	4·25
Mullaghmore	46·1	38·0	41·6	40·4	4·36
Donaghadee	44·4	36·1	40·0	39·2	2·98
Holyhead	45·6	38·7	41·7	40·3	3·38
Liverpool	43·5	35·2	38·6	37·0	2·22
Parsonstown	45·6	34·2	38·9	37·8	3·12
Valencia	49·5	40·4	44·5	43·3	6·69
Roche's Point	47·7	39·5	43·2	41·9	5·50
Pembroke	45·5	39·6	42·7	41·3	3·75
Scilly	48·8	42·9	45·4	44·9	3·73
Prawle Point	46·2	37·6	42·0	41·0	3·09
Jersey	45·8	38·5	41·8	40·4	3·21
Hurst Castle	45·0	36·3	40·3	39·5	2·94
Dover	43·5	35·8	39·2	38·1	2·58
LONDON	44·1	34·8	37·6	36·6	2·12
Oxford	43·1	33·6	37·1	36·1	2·26
Cambridge	43·3	31·7	36·2	35·4	1·54
Yarmouth	41·5	33·8	37·5	36·7	1·95

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·2 in: and more to 30·0 in: over Spain, France, the Netherlands, and eastern half of the English Channel.
Lowest, 29·3 in: and less, over the northern and western parts of Scotland.
Gradients steep in the north, slight in the south.
Barometer falling over Norway, the northern and eastern parts of Gt. Britain, and in France.

TEMPERATURE

Highest: 48° at Lilly, 47° at Lorient, and above 40° in all parts of our Islands.
Lowest, 3° to 7° F. over the northern half of Sweden, 26° at Bodö and the Scaw, 27° at Stockholm, 29° at Sylmo, but above 32° F. over Germany.

WIND

Very light and variable (calm in places) over the Baltic and the eastern shores of the North Sea; S. and SW. over Gt. Britain — fresh at the English stations, and blowing a gale in Scotland; NW., moderate in Ireland, S., light in France.
It blew a gale from the S. in Ireland during the night.

WEATHER

Fine over the northern parts of Scandinavia, but dull and changeable in almost all other places with rain in several localities.
Rain has fallen at almost all our snow stations — but the fall has been heavy in the west of Ireland only (0·9 in: at Valencia, 0·5 in: at Belmullet). There was a good deal of fog in the Channel yesterday.

SEA

Rough on our northern coasts and at the mouth of the Bristol Channel, moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The disturbance is of a "V" shaped type, and as it passes northwards the wind is likely to shift suddenly to NW — but probably as a temporary change only.

FORECASTS

For the 24 hours ending at NOON on 27th JANY. 1893.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	S. gales, shifting suddenly to NW. and moderating quickly; squally, showery, very changeable.	6 SCOTLAND WEST 7 ENGLAND N.W. 8 ENGLAND S.W.	Wind backing to NW; colder, changeable showery.
2 ENGLAND N.E. 3 ENGLAND EAST 4 MIDLAND COUNTIES	Same as No. 5.	9 IRELAND NORTH 10 IRELAND SOUTH	NW. winds, falling light, with fair weather, then SW., and changeable.
5 ENGLAND SOUTH	S. winds, mild and showery, then NW., colder, changeable, showery.	WARNINGS	The CONE has now been lowered except in district 0 and part of 1. [The note with regard to lowering in yesterday's report was erroneous].

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.82	37	32	nw	6	c	4
Sumburgh Head	29.76	42	38	W	3	bc	5
Stornoway	29.84	46	44	W	3	b	3
Aberdeen	29.93	44	39	SW	2	b	1
Shields	30.02	45	43	W	3	bc	2
Ardrossan	29.99	43	42	2	0	0	2
Malin Head ...	29.96	43	42	S	3	0	2
Mullaghmore ...	29.98	48	44	SSW	3	om	2
Belmullet	29.95	47	45	S	2	o	*
Holyhead	30.09	46	45	SW	2	c	2

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc	F.	WEA.	SEA.
Valencia	29.97	45	43	SSE	5	mg	4
Scilly	30.08	49	49	SSW	3	bg	4
Jersey	30.24	47	46	WSW	3	bg	3
Hurst Castle ...	30.19	40	39	NNE	1	bg	2
Dungeness	30.18	40	40	NNW	1	bg	1
North Foreland ...	30.17	38	37	SSE	1	bg	2
London (Westminster)	30.18	44	42	SW	1	om	*
Yarmouth	30.10	45	43	WNW	3	b	3
Rochefort	30.30	50	48	S	1	o	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather fine over the greater part of our Islands, but rainy or foggy at several of our southern stations. Fine also over Holland, Denmark, and the Baltic Provinces, as well as in Spain, Sicily, Algeria, and the south of Russia, dull in other parts of the Continent, with fog at some of the French and Belgian stations, and with snow in Sweden, Finland, and some parts of Eastern Germany. Rainy weather setting in later over Ireland, and spreading quickly over a considerable portion of Great Britain; - amount rather large in the extreme west.

Temperature fallen in most parts of Western and Southern Europe, risen elsewhere, - rapidly over Eastern Germany and the Gulf of Finland. Morning readings highest 52° at La Calle, 51° at Algiers, and 50° at Barcelona and Malta; above 45° in the extreme southwest of England. Lowest -1° Fahr. at Moscow, +1° at Memel and Riga, 2° at Nikolaieff, and 4° at Kiev, Odessa and Hermannstadt, below the freezing point over northern and eastern Europe, as well as over northern Italy and Central Spain. Subsequently rising to between 45° and 50° in most parts of the United Kingdom, and to between 50° and 55° in the west and south of France.

Wind light to fresh from the W^ly over the greater part of our Islands, as well as in Norway, Denmark, Germany, and the Netherlands, but light from the E^ly or SE^ly on our extreme southeastern coasts. S^ly over Sweden and northern Russia, with a gale at Wisby, light and variable over Italy, Austria, and the south of Russia. Light from the SW^ly in the west of France, but E^ly or NE^ly in Spain, and SE^ly in Algeria. Subsequently shifting to the S^ly in the west of our Islands, and increasing to a gale in Ireland.

Barometer highest, 30·4 in. and upwards in an anticyclone lying over Spain, and also in another system over Central Russia. Lowest, 29·1 in. and less, in a well marked depression lying off the northwest of Norway. New disturbance approaching our western coasts later; barometer falling quickly in Ireland, and less decidedly in most other parts of the United Kingdom and 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 made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. The time at each Station is the Standard Time of its Country.

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DAILY WEATHER REPORT

for 8 a.m. on Friday, 27th January, 1893

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. Reading at 32° F. and Sea Level.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	THIS MORNING. (See note at bottom of last page.) Barometer. Reading at 32° F. and Sea Level.	Barometer. Change since Yesterday Morn.	Shade Temp. Dry Bulb.	Shade Temp. Wet Bulb.	Shade Temp. Change in dry since Yesterday.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	Sea (0 to 9).	PAST 24 HOURS. Weather.	Shade Temp. Max	Shade Temp. Min.	Amount of Rainfall.
		Ins.	°				Ins.		°	°	°							°	Ins.
Scandinavia	Haparanda ...	30·03	10	SW	2	b	30·06	+·22	17	17	+ 14	SW	2	0	*	b	27	1	-
	Hernösand ...	30·05	18	S	2	0	29·99	+·04	25	24	+ 18	S	4	0	*	0	28	1	-
	Stockholm ...	30·05	24	Z	0	0	30·10	+·15	27	27	0	S	2	f	*	0	36	23	-
	Wisby	30·06	29	N	4	0	30·15	+·25	30	29	− 3	ESE	2	0	*	0	34	23	0·04
	Bodö	29·60	35	E	6	c	29·49	−·22	36	33	+ 10	E	4	0	2	c	36	23	-
	Christiansund...	29·36	42	ESE	8	bc	29·48	−·25	36	35	− 1	ESE	8	bc	8	bc	41	36	-
	Skudesnaes ...	29·60	41	SSE	8	r	29·62	−·29	41	39	+ 4	ESE	5	r	5	0, r	41	37	-
	Christiania Fjord (Faerder)	29·95	31	SSE	4	0	29·78	−·25	32	32	+ 5	ESE	5	2	5	0	?	27	-
	Skagen (The Scaw)	29·91	31	S	5	0	29·82	−·23	33	32	+ 7	S	6	2	4	0	?	25	-
	Fanö	29·93	33	SE	4	0	29·89	−·19	33	33	+ 2	SW	4	r	*	0	34	28	0·12
British Islands	Sumburgh Head	29·21	41	W	4	r	29·55	+·19	36	32	− 6	WNW	4	c	6	r	43	27	0·59
	Stornoway ...	29·88	39	Z	0	r	29·72	+·48	31	30	− 8	N	2	b	2	c, r	43	30	0·08
	Wick	29·40	38	W	4	bc	29·69	+·46	34	33	− 7	NW	2	bc	2	bc	43	33	0·40
	Nairn	29·45	38	W	2	b	29·75	+·52	35	35	− 6	SW	1	bc	1	b	42	35	0·12
	Aberdeen ...	29·55	38	SSW	2	b	29·79	+·44	34	32	− 7	W	2	b	2	s, b	45	34	0·01
	Leith	29·62	39	SW	2	b	29·80	+·48	41	40	− 6	WSW	2	om	*	b	47	39	0·01
	Shields	29·69	43	WSW	3	m	29·88	+·35	41	39	− 3	WSW	2	bc	2	c, m	48	34	-
	Spurn Head ...	29·73	40	WSW	2	rm	29·95	+·19	35	35	− 6	SW	2	cm	1	rm	44	33	0·21
	York	29·73	42	WNW	1	0	29·96	+·26	38	37	− 7	ESW	1	bc	*	0	46	34	0·02
	Loughborough	29·77	40	W	1	r	30·02	+·19	30	29	− 14	ESE	1	cf	*	r	47	29	0·48
	Ardrossan ...	29·67	43	WSW	3	b	29·81	+·51	42	41	− 2	WSW	2	c	2	bc, b	46	40	0·01
	Malin Head ...	29·65	40	W	5	bcp	29·77	+·34	40	39	− 1	S	4	0	3	bc, p	44	38	0·12
	Mullaghmore ...	29·73	42	WSW	4	bcp	29·79	+·21	43	40	− 1	WSW	5	og	4	bc, p	46	39	0·03
	Belmullet ...	29·75	44	SW	2	b	29·75	+·08	44	42	0	S	3	0	*	c, b	46	39	0·02
	Donaghadee ...	29·75	38	SSW	3	b	29·86	+·38	38	37	− 6	SW	4	bc	3	b	44	34	-
	Liverpool (Bidston)	29·78	40	W	2	b	29·98	+·29	39	37	− 6	WSW	2	b	2	b	47	36	0·09
	Holyhead ...	29·79	41	NW	2	b	29·94	+·28	40	39	− 3	SSW	1	bw	2	og, b	46	39	0·01
	Parsonstown ...	29·83	39	Z	0	b	29·88	+·18	37	35	− 5	Z	0	0	*	b	46	33	-
	Valencia	29·91	43	SW	1	b	29·82	+·02	46	42	+ 1	S	4	0	4	b	48	39	0·01
	Roche's Point	29·89	45	WNW	8	b	29·85	+·10	47	45	+ 2	SW	4	c	4	b	48	35	-
	Pembroke (St. Ann's Hd.)	29·84	43	NW	4	b	29·98	+·25	44	42	− 2	S	2	bc	3	b	46	42	0·40
	Scilly	29·85	46	NNW	5	c	29·98	+·20	44	40	− 4	S	4	bc	3	o, b	49	40	0·18
	Prawle Point ...	29·80	41	NW	3	0	30·05	+·17	36	35	− 9	NNW	2	b	1	o g, b	46	34	0·16
	Jersey (St. Aubin's)	29·86	45	S	5	ogm	30·06	+·03	38	36	− 6	NW	3	bm	3	o g m	46	35	0·19
	Hurst Castle ...	29·76	45	SW	7	cgp	30·03	+·08	33	32	− 11	NNE	1	b	3	c d, pg	45	32	0·02
	Dungeness ...	29·86	42	SW	6	0	29·96	−·04	36	36	− 5	N	4	m	3	c, o	43	36	0·09
	North Foreland	29·84	42	SSW	5	og	29·97	−·01	36	35	− 6	NNW	3	f	3	o, g	43	35	0·13
	London	29·80	43	SSW	4	od	30·03	+·08	34	34	− 9	W	1	bmf	*	o, r, b	46	33	0·18
	Oxford	29·79	39	NW	1	r	30·03	+·14	32	31	− 12	SW	1	b	*	o, r	45	31	0·43
	Cambridge ...	29·78	44	SW	2	r	30·02	+·14	32	31	− 11	NW	1	b	*	r	47	30	0·33
	Yarmouth ...	29·81	41	SW	4	c	29·97	+·03	34	34	− 7	NW	2	bf	3	cm, r	42	33	0·40
Germany & Holland	Cuxhaven ...	30·07	35	S	2	0	29·99	−·15	35	34	+ 1	SSW	2	0	*	0	36	34	-
	Berlin	30·13	31	Z	0	b	30·13	+·03	25	24	− 9	SE	2	0	*	b	37	23	-
	Wiesbaden ...	*	*	*	*	*	30·06	−·15	35	34	+ 2	Z	0	0	*	*	37	32	-
	Munich ...	30·10	30	Z	0	c	30·07	−·12	19	19	− 14	SW	4	b	*	c	36	18	-
	The Helder ...	29·94	37	S	3	c	29·97	−·13	36	36	+ 2	SSW	1	c	1	c	39	34	0·04
France and Belgium	Brussels (9 a.m.)	*	*	*	*	*	29·99	−·12	34	34	− 3	SE	1	r	*	0	43	34	-
	Cape Gris Nez	29·88	41	S	5	c	29·92	−·11	38	37	0	N	2	0	2	c	43	36	0·12
	Paris	30·06	34	S	2	f	29·99	−·18	35	35	+ 4	S	3	r	*	f	38	31	0·04
	Brest	?	45	N	1	c	?	?	40	39	− 8	E	1	b	3	c	48	37	0·28
	Lorient	29·86	50	SSW	6	r	30·05	+·04	42	39	− 5	NE	1	b	4	r	52	39	0·08
	Rochefort ...	30·04	44	SSW	4	b	30·05	−·08	46	46	+ 2	S	2	c	*	o, b	46	36	0·16
	Belfort														*				
	Lyons	30·15	30	N	1	f	30·16	−·08	26	26	− 3	E	1	f	*	f	36	26	-
	Nice	30·11	44	E	1	c	30·09		43	39		NE	3	r	2	c	48	41	-
	Perpignan ...	30·12	41	Z	0	b	30·13	−·04	33	33	− 7	W	2	b	*	b	50	31	-
	Biarritz	30·09	46	ENE	2	b	30·08	−·05	46	40	+ 8	SSW	3	0	2	b	52	38	-
Peninsula	Corunna	*	*	*	*	*										*			
	Lisbon	30·12	50	NNE	2	0	30·09	−·11	42	41	+ 1	NNE	3	c	*	0	52	41	-

For Explanation of Columns, see bottom of last page

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

WEATHER CHARTS

for 8 a.m. on Friday, 27th January, 1893.

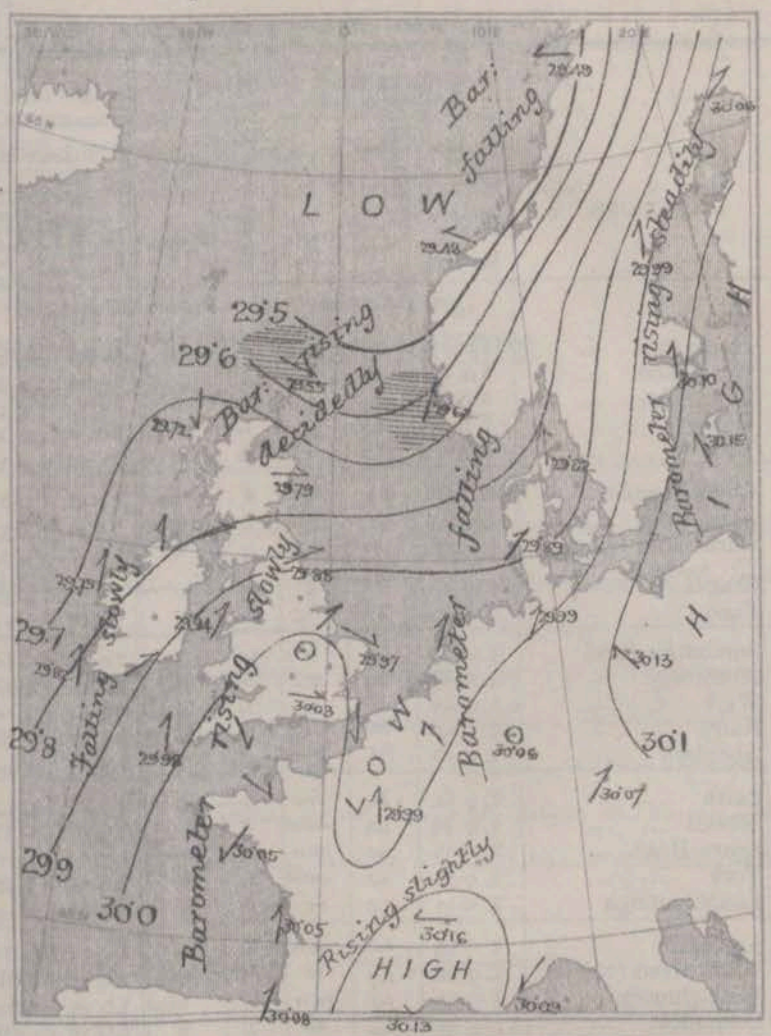
BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

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

WIND—Arrows shew the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus—
⟶ = forces above 10; ⟶ = forces 8 to 10;
⟶ = forces 5 to 7; ⟶ = forces 1 to 4.
◎ = dead calm.

SEA DISTURBANCE—Where considerable, is shewn thus:
= Rough. = High.



MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of January. During the 20 Years: 1871—1890.

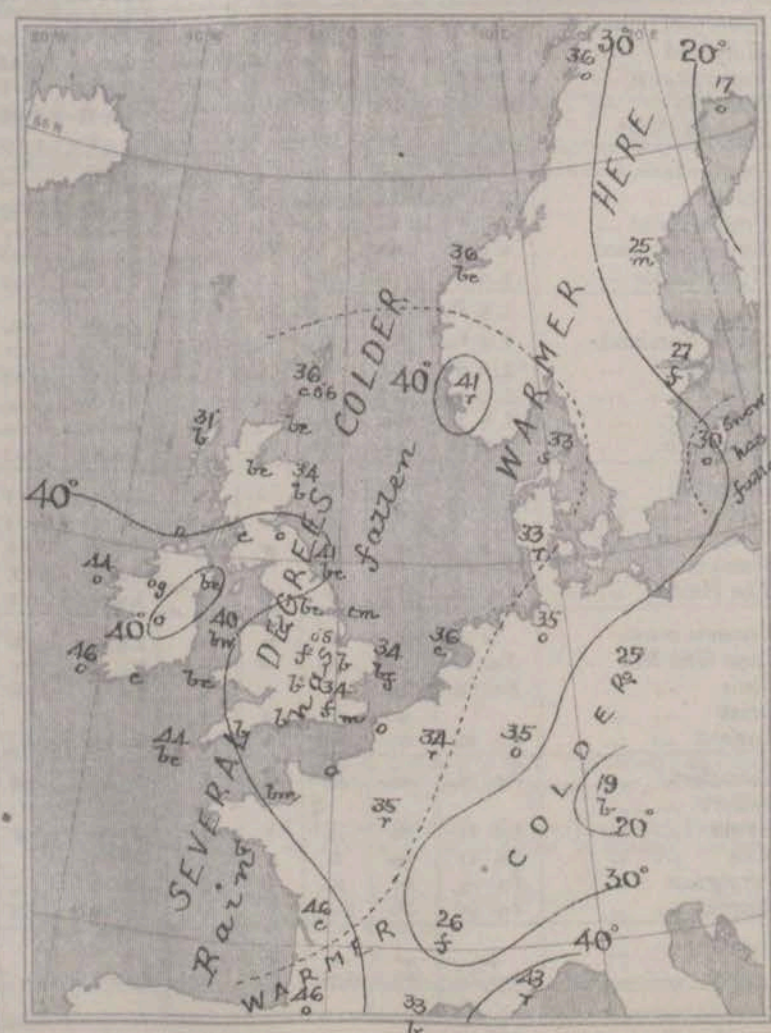
STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29·675
Stornoway	29·682
Wick	29·719
Nairn	29·745
Aberdeen	29·787
Leith	29·825
Shields	29·881
Spurn Head	29·926
York	29·932
Loughborough	29·967
Ardrossan	29·838
Mullaghmore	29·817
Donaghadee	29·850
Holyhead	29·902
Liverpool	29·924
Parsonstown	29·895
Valencia	29·887
Roche's Point	29·908
Pembroke	29·936
Scilly	29·969
Prawle Point	30·006
Jersey	30·012
Hurst Castle	30·002
Dover	30·012
LONDON	30·006
Oxford	29·999
Cambridge	29·993
Yarmouth	29·979

TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.



MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of January.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry	Wet.	RAINFALL. (Inches.)
Sumburgh Head	42·9	35·6	39·7	38·4	3·72
Stornoway	43·3	34·5	39·5	38·4	3·39
Wick	42·1	33·3	38·2	36·5	2·05
Nairn	42·2	32·9	37·3	35·6	1·99
Aberdeen	42·4	33·2	37·3	35·6	2·31
Leith	44·4	33·7	38·6	37·2	1·93
Shields	43·0	34·2	38·2	36·9	1·75
Spurn Head	41·7	34·5	37·7	36·7	1·85
York	42·7	32·5	36·7	35·7	1·87
Loughborough	43·0	31·3	36·4	35·4	2·04
Ardrossan	44·2	36·3	40·0	38·3	4·25
Mullaghmore	46·1	38·0	41·6	40·4	4·36
Donaghadee	44·1	36·1	40·0	39·2	2·98
Holyhead	45·6	38·7	41·7	40·3	3·38
Liverpool	43·5	35·2	38·6	37·0	2·22
Parsonstown	45·6	31·2	38·9	37·8	3·12
Valencia	49·5	40·4	44·5	43·3	6·69
Roche's Point	47·7	39·5	43·2	41·9	5·50
Pembroke	45·5	39·6	42·7	41·3	3·75
Scilly	48·8	42·9	46·4	44·9	3·73
Prawle Point	46·2	37·6	42·0	41·0	3·09
Jersey	45·8	38·3	41·8	40·4	3·21
Hurst Castle	45·0	36·3	40·3	39·5	2·94
Dover	43·5	35·8	39·2	38·1	2·58
LONDON	44·1	34·8	37·6	36·6	2·12
Oxford	43·1	33·6	37·1	36·1	2·26
Cambridge	43·3	31·7	36·2	35·4	1·51
Yarmouth	41·5	34·8	37·5	36·7	1·95

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·1 ins. and more, over Russia and the Baltic, and exceeding 30·0 ins. over Germany, France, and the Bay of Biscay.
Lowest, 29·5 ins. and less, in a depression off the west of Norway, and 29·7 ins. and less, off our extreme northwestern coasts. There is also a very shallow and small disturbance over Belgium and the northeast of France.
Gradients slight in the south, moderate, but increasing, over Ireland, somewhat steep over Scandinavia.
Barometer rising at our northern and eastern stations, but has begun to fall again in the west of Ireland.

TEMPERATURE

Highest, 46° to 47° in the south of Ireland, 46° on the southwestern coast of France, 44° at Valley and Pembroke.
Lowest, (1) 17° at Haparanda, 27° at Stockholm; (2) 19° at Munich, 25° at Berlin; (3) 30° at Loughborough, and 32° at Cambridge.
It has fallen very decidedly over Great Britain during the night, but a fresh rise is setting in over Ireland.

WIND

S. moderate to strong, over Scandinavia and the eastern shores of the North Sea; Variable from between SW. and NW. over Great Britain, and light in force; S. in Ireland and St. George's Channel, and inclined to freshen. Over France it is very light and variable.
The gales reported in the north yesterday morning soon died down.

WEATHER

Fair generally over Great Britain — clear and bright in many places, but foggy in London and at the mouth of the Thames.
It is raining at Brussels, dull and somewhat unsettled in Ireland.
Rain has fallen over our Islands generally, and in some localities the fall was considerable (0·3 in. to 0·6 in.).

SEA

Rough at Lerwick Hd. and Shetlands, moderate off the south of Ireland and Ushant, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The southerly breeze now prevailing over Ireland is likely to become stronger, and to spread eastwards and northwards over Great Britain shortly, causing a decided rise of temperature and some rain later.

FORECASTS

For the 24 hours ending at NOON on 28th JANUARY, 1893.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	Wind shifting to S. and increasing; fair at first, rainy later and milder.
1 SCOTLAND EAST	SW. breezes, moderate; fair to showery.
2 ENGLAND N.E.	
3 ENGLAND EAST	Same as No. 5.
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	Variable airs and fine weather, then SW. to S. breezes and rain, milder.
6 SCOTLAND WEST	Wind becoming stronger from the S.; with rainy unsettled weather.
7 ENGLAND N.W.	
8 ENGLAND S.W.	
9 IRELAND NORTH	
10 IRELAND SOUTH	
WARNINGS	None issued.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29·70	39	36	SSE	9	o	6
Sumburgh Head	29·09	40	40	W	3	r	6
Stornoway	29·35	43	41	SW	8	c	4
Aberdeen	29·39	43	39	W	6	bq	5
Shields	29·62	47	44	SW	9	c	2
Ardrossan	29·62	45	42	WSW	4	bc	3
Malin Head ...	29·61	42	40	W	5	bc	4
Mullaghmore ...	29·71	44	41	WSW	5	bcqp	5
Belmullet	29·75	46	42	W	4	c	*
Holyhead	29·73	43	42	WNW	4	oq	4

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29·87	48	43	W	3	bv	4
Scilly	29·78	47	45	NNW	4	o	5
Jersey	29·94	46	43	SSE	5	o	4
Hurst Castle ...	29·81	45	44	SW	6	cdg	4
Dungeness... ...	29·90	43	42	SSW	5	c	4
North Foreland...	29·86	43	42	SSW	5	o	4
London (westminster)	29·84	47	44	SSW	8	og	*
Yarmouth	29·86	41	40	S	4	cm	8
Rochefort	30·10	44	41	SSW	3	o	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather equally and rainy in most parts of the United Kingdom, and dull over France, Italy, and the greater part of central and eastern Europe, with snow at Warsaw, Cracow, and Nicolaieff. Fine and bright over Denmark and the northern parts of Scandinavia, as well as in Spain and Algeria. Sky clearing later at many of our western and northern stations, but steady rain falling in the southeast of England.

Temperature rises in our Islands as well as over the Baltic, Italy, and the south of Russia, fallen in most other localities. Morning readings highest (1) 54° at Algiers, 53° at Malta, 51° at La Calle, and 46° at San Fernando; (2) 48° at Scilly and Brest, and 47° at Keith and Lorient; varying between 40° and 45° in most parts of the United Kingdom. Lowest −7° Fahr at Moscow, −1° at Hermanstadt, +2° at Kharkov, 3° at Haparanda and 4° at St Petersburg; considerably below the freezing point over Sweden, Russia, Austria and northern Italy generally, slightly below it over the central parts of France and Spain. Daily maxima over our Islands varying in most places between 43° and 48°; thermometer exceeding 50° in the east and south of France

Wind moderate to fresh from the NWrly in Ireland; strong from the Srly in the western and northern parts of Gt Britain with a gale in the east of Scotland, and moderate from the same quarter over France and the southeast of England; SEly in the west of Norway. Light to moderate from W. or NW. in Germany; SEly over the Baltic Provinces and Finland; calm and variable in Sweden. Light from the NEly in the south of Russia and also over the greater part of Italy and Spain; variable in Algeria. Subsequently shifting to the Wly or NWly in many parts of Gt Britain, and falling light, but backing to the SWly in the west of Ireland.

Barometer highest 30·5 in. and upwards in an anticyclone over Central Russia; 30·1 in. and upwards over the whole of eastern central, and southern Europe. Lowest 29·2 in. and less in a V shaped depression having its centre off the north of Scotland. Depression subsequently travelling away in a northeasterly direction, and barometer rising in all the more western and northern parts of 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 made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. 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 Saturday, 28th January, 1893

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. Reading at 32° F. and Sea Level.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	THIS MORNING. (See note at bottom of last page.) Barometer. Reading at 32° F. and Sea Level.	Barometer. Change since Yesterday Morn.	Shade Temp. Dry Bulb.	Shade Temp. Wet Bulb.	Shade Temp. Change in dry since Yesterday.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	Sea (0 to 9).	PAST 24 HOURS. Weather.	Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
		Ins.	°				Ins.		°	°	°							°	Ins.
SCANDINAVIA.	Haparanda ...	30·00	16	SW	2	c	29·87	-·19	17	17	0	SW	4	0	*	c	18	10	-
	Hernösand ...	29·86	26	SE	6	c	29·94	-·06	12	11	- 13	Z	0	b	*	S	27	?	0·04
	Stockholm ...	29·97	32	SSW	2	s	29·99	-·11	32	31	+ 5	W	2	0	*	S	34	18	0·04
	Wisby														*				
	Bodö	29·86	29	E	4	b	29·60	+·11	30	27	- 6	E	4	b	2	b	36	25	-
	Christiansund...	29·69	36	NSW	6	s	29·75	+·27	35	34	- 1	SW	5	0	4	s	36	32	0·24
	Skudesnaes ...	29·95	35	NW	1	c	29·91	+·29	39	36	- 2	SSE	6	0	4	c	41	34	-
	Christiania Fjord (Færder)	29·84	33	W	5	b	30·01	+·23	29	28	- 3	SSW	2	0	1	b	?	28	-
	Skagen (The Scaw)	29·88	32	WNW	2	b	30·07	+·25	32	32	- 1	NSW	1	f	0	b	36	28	0·08
	Fanö	30·08	33	SW	2	m	30·10	+·21	32	31	- 1	SW	3		*	m	36	30	-
BRITISH ISLANDS	Sumburgh Head	29·72	36	W	1	o	29·54	-·01	41	38	+ 5	S	4	0	6	bc, o	41	36	0·03
	Stornoway ...	29·66	37	SE	2	r	29·34	-·38	40	40	+ 9	SW	8	r	6	r	43	30	0·10
	Wick	29·75	38	S	4	o	29·47	-·22	40	38	+ 6	S	6	ou	3	o	42	34	-
	Nairn	29·75	40	Z	0	o	29·46	-·29	42	37	+ 7	S	4	o	2	o	44	32	-
	Aberdeen ...	29·84	40	SSW	3	ogp	29·59	-·20	38	36	+ 4	S	6	ogq	5	bc, ogp	41	34	-
	Leith	29·86	41	Z	0	o	29·57	-·23	38	35	- 3	SE	2	o	*	o	45	35	-
	Shields	29·94	41	SW	1	m	29·68	-·20	37	36	- 4	S	4	o	2	o, m	43	35	-
	Spurn Head ...	30·00	37	SSE	1	bm	29·80	-·15	37	37	+ 2	SSE	4	rgm	3	bm	43	34	-
	York	29·99	39	S	1	b	29·74	-·22	36	35	- 2	SE	3	o	*	b	45	34	0·01
	Loughborough	30·03	34	S	1	f	29·78	-·24	36	36	+ 6	SSE	3	cm	*	f	46	29	-
	Ardrossan ...	29·77	44	SW	3	bc	29·51	-·30	38	37	- 4	ESE	6	rm	5	bc	44	37	0·03
	Malin Head ...	29·65	42	SSE	6	ou	29·31	-·46	40	39	0	S	5	og	2	o, ou	43	38	0·02
	Mullaghmore ...	29·68	45	SE	4	og	29·30	-·49	45	43	+ 2	SSW	6	bc	4	og	46	41	0·06
	Belmullet ...	29·57	45	ESE	6	o	29·27	-·48	44	43	0	SE	3	o	*	o	46	42	0·15
	Donaghadee ...	29·83	43	S	5	c	29·49	-·37	41	41	+ 3	S	7	r	5	c	45	38	0·38
	Liverpool (Bidston)	29·96	39	SSE	2	c	29·62	-·36	36	35	- 3	SE	4	bc	3	c	46	35	-
	Holyhead ...	29·89	42	S	4	og	29·51	-·43	44	41	+ 4	SSE	5	og	4	cg, o	46	39	-
	Parsonstown ...	29·72	44	SE	2	o	†29·37	-·51	40	39	+ 3	Z	0	o	*	ogr	45	35	0·24
	Valencia	29·61	48	SSE	7	ogq	29·30	-·52	48	45	+ 2	SSE	3	om	4	omgq	49	44	0·24
	Roche's Point	29·71	47	SSW	6	p	29·41	-·44	47	46	0	SW	4	c	4	p, r	48	42	0·55
	Pembroke (St. Ann's Hd.)	29·87	43	SE	5	bc	29·52	-·46	45	45	+ 1	S	6	rq	?	bc	46	42	0·03
	Scilly	29·83	47	SSE	5	c	29·56	-·42	48	47	+ 4	SSW	5	c	5	c	48	40	0·04
	Prawle Point ...	30·00	42	SSE	4	c	29·68	-·07	43	43	+ 7	SSE	6	ou	5	cp	47	36	0·01
	Jersey (St. Aubin's)	30·02	42	NNW	5	cm	29·82	-·24	41	39	+ 3	SE	5	cg	4	b, cm	51	35	-
	Hurst Castle ...	30·03	38	ESE	1	bm	29·80	-·23	41	40	+ 8	S	5	bc	2	bm	46	33	-
	Dungeness ...	30·02	37	E	2	m	29·89	-·07	40	39	+ 4	S	6	o	5	mf	42	35	-
	North Foreland	30·02	40	NE	2	o	29·88	-·09	38	37	+ 2	SSE	4	og	4	f, bm	40	34	-
	London	30·04	32	SE	1	bf	29·84	-·19	40	38	+ 6	SSW	2	c	*	f, b, c	40	31	-
	Oxford	30·01	35	SSE	1	m	29·79	-·24	37	36	+ 5	SSE	2	bc	*	m	47	32	-
	Cambridge ...	30·03	36	W	2	c	29·84	-·18	38	37	+ 6	SE	3	o	*	c	46	30	0·02
	Yarmouth ...	30·03	37	N	1	b	29·89	-·08	37	36	+ 3	S	4	cg	4	b	40	32	-
GERMANY & HOLLAND	Cuxhaven ...	29·97	34	W	1	b	30·03	+·04	34	33	- 1	SSW	2	o	*	f	35	33	-
	Berlin	30·17	33	NNW	2	o	30·20	+·07	30	29	+ 5	S	2	o	*	o	34	25	-
	Wiesbaden ...	*	*	*	*	*	30·12	+·06	34	32	- 1	SW	2	o	*	*	35	32	-
	Munich ...	30·14	28	NE	3	o	30·11	+·04	24	24	+ 5	S	4	o	*	o	28	19	-
	The Helder ...	30·15	33	SSW	1	f	30·06	+·09	35	35	- 1	SSE	2	c	1	f	39	32	-
BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	30·04	+·05	34	32	0	SE	3	b	*	o	37	33	-
	Cape Gris Nez	30·00	37	Z	0	f	29·90	-·02	37	36	- 1	SSE	4	c	3	f	39	36	-
	Paris	30·04	37	SE	2	o	30·00	+·01	35	34	0	S	3	o	*	f	37	35	0·04
	Brest	?	48	SSE	3	bc	?	?	48	47	+ 8	SW	3	c	4	bc	52	40	0·04
	Lorient	?	42	SE	1	bc	29·75	-·30	47	46	+ 5	SE	5	r	4	bc	48	39	0·16
FRANCE AND	Rochefort ...	30·03	44	NW	2	b	29·88	-·17	36	38	- 8	S	4	o	*	b	52	36	-
	Belfort	?	30	E	1	bc	?	?	28	27		ENE	3	bc	*	bc	41	26	-
	Lyons	?	30	S	1	f	30·11	-·05	28	28	+ 2	S	1	f	*	spf	32	26	-
	Nice	30·08	45	ESE	1	o	30·11	+·02	42	40	- 1	Z	0	c	1	o	50	41	-
	Perpignan ...	30·09	41	SE	1	b	30·02	-·11	34	34	+ 1	W	2	o	*	b	53	31	-
	Biarritz	30·00	50	ENE	2	b	29·95	-·13	50	42	+ 4	SSW	4	o	2	b	52	43	-
PENINSULA.	Corunna	*	*	*	*	*										*			
	Lisbon	30·07	55	SSW	3	o	30·06	-·03	53	53	+ 11	S	2	bo	*	o	57	42	0·04

For Explanation of Columns, see bottom of last page.

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

WEATHER CHARTS

for 8 a.m. on Saturday, 28th Jany 1893.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

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

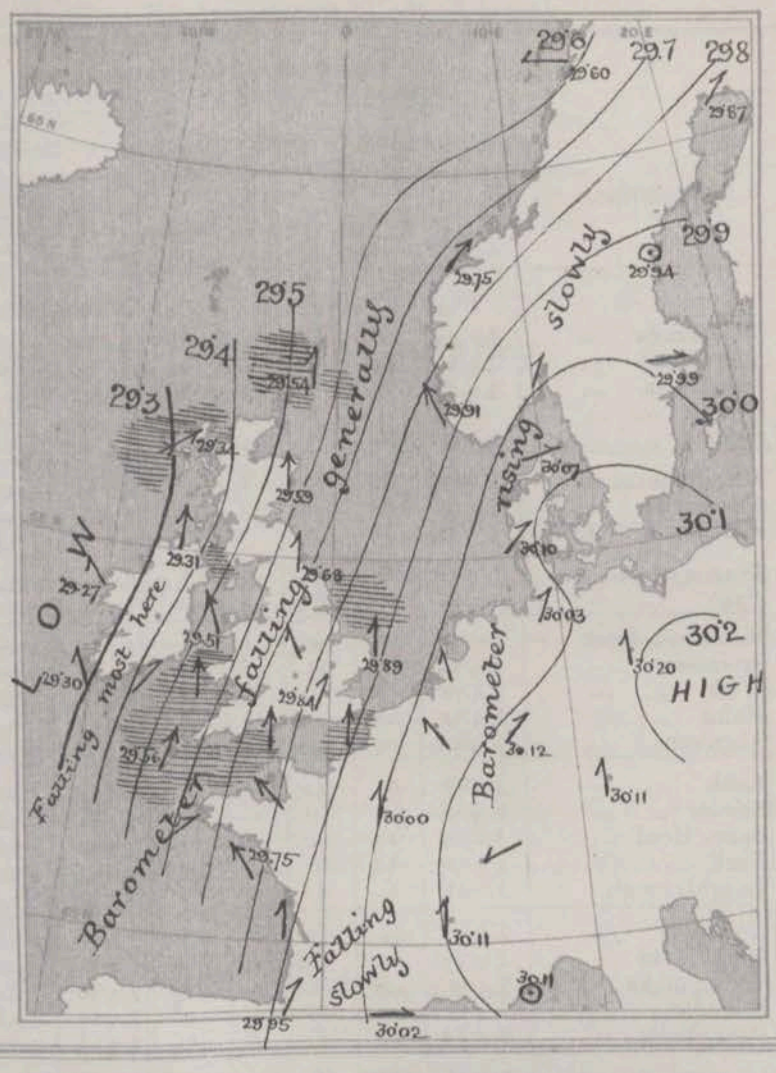
WIND—Arrows shew the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus—
= forces above 10; = forces 8 to 10;
= forces 5 to 7; = forces 1 to 4.
⊙ = dead calm.

SEA DISTURBANCE—Where considerable, is shewn thus:
= Rough. = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of January.
During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29·678
Stornoway	29·682
Wick	29·719
Nairn	29·745
Aberdeen	29·787
Leith	29·825
Shields	29·881
Spurn Head	29·926
York	29·932
Loughborough	29·967
Ardrossan	29·838
Mullaghmore	29·817
Donaghadee	29·856
Holyhead	29·902
Liverpool	29·924
Parsonstown	29·895
Valencia	29·887
Roche's Point	29·908
Pembroke	29·936
Scilly	29·969
Prawle Point	30·006
Jersey	30·022
Hurst Castle	30·002
Dover	30·012
LONDON	30·006
Oxford	29·999
Cambridge	29·993
Yarmouth	29·979



TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shown by Letters of the Beaufort Scale.

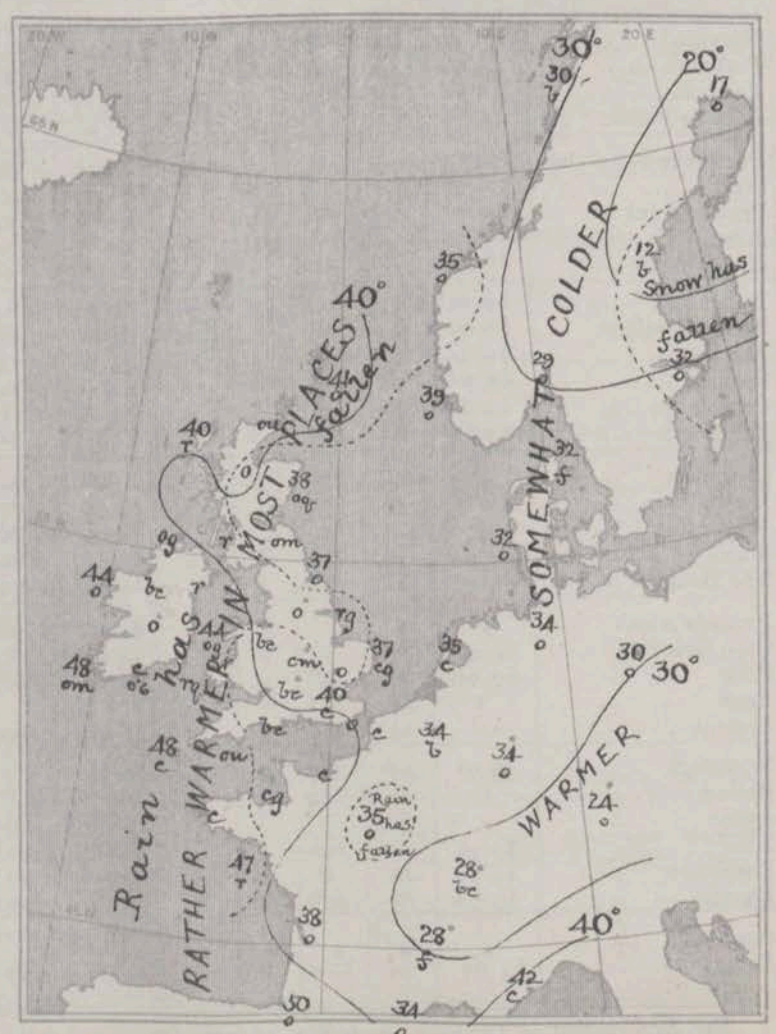
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of January.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 A.M. Dry.	at 8 A.M. Wet.	RAINFALL. (Inches.)
Sumburgh Head	42·9	35·6	39·7	38·4	3·72
Stornoway	43·3	34·5	39·5	38·4	5·30
Wick	42·4	33·3	38·2	36·8	2·05
Nairn	42·2	32·9	37·2	35·6	1·99
Aberdeen	42·4	33·2	37·3	35·6	2·31
Leith	44·4	33·7	38·6	37·2	1·93
Shields	43·0	34·2	38·2	36·9	1·75
Spurn Head	41·7	34·5	37·7	36·7	1·85
York	42·7	32·5	36·7	35·7	1·87
Loughborough	43·0	32·3	36·4	35·4	2·04
Ardrossan	44·2	35·3	40·0	38·8	4·25
Mullaghmore	46·1	38·0	41·6	40·4	4·36
Donaghadee	44·4	36·1	40·0	39·2	2·98
Holyhead	45·6	38·7	41·7	40·3	3·38
Liverpool	43·5	35·2	38·6	37·0	2·22
Parsonstown	45·6	34·2	38·9	37·8	3·12
Valencia	49·5	40·4	44·5	43·3	6·69
Roche's Point	47·7	39·5	43·2	41·9	5·50
Pembroke	45·5	39·6	42·7	41·3	3·75
Scilly	48·8	42·9	46·4	44·9	3·73
Prawle Point	46·2	37·6	42·0	41·0	3·09
Jersey	45·8	38·3	41·8	40·4	3·21
Hurst Castle	45·0	36·3	40·3	39·5	2·94
Dover	43·5	35·8	39·2	38·1	2·58
LONDON	44·1	33·8	37·6	36·6	2·12
Oxford	43·1	33·6	37·1	36·1	2·26
Cambridge	43·3	31·7	36·2	35·1	1·54
Yarmouth	41·5	34·8	37·5	36·7	1·95

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·2 ins: and more to 30·0 ins: over Germany, Denmark, and the east of France.
Lowest, 29·3 ins: and less, over the west of Ireland and neighbouring parts of the Atlantic.
Gradients somewhat steep over our Islands, slight over Germany and the east of France.
Barometer falling throughout our Islands, but the change is not rapid.

TEMPERATURE

Highest, 50° at Biarritz, 48° at Brest, Scilly, and Valencia Island, and above 40° on our western and northern coasts generally.
Lowest, (1) 12° at Hernösand, 17° at Haparanda; (2) 28° at Lyons and Belfast, 30° at Berlin. (28° at Munich)
The changes during the past twenty-four hours have been very fitful, but as a whole there has been an increase – especially in Scotland.

WIND

S^th (SSW to SSE) all over our Islands – moderate in the east, strong in the west and north.
On the Continent the wind is lighter, but mainly S^th.
A moderate to fresh gale from the S^ward has been felt at our western and northern stations in the night.

WEATHER

Fair as a whole over the Continent and the eastern half of England, but cloudy in many places.
Dull and unsettled in the west with rain locally.
Rain has fallen at all our western stations during the day, but the amounts were small except in the east and south of Ireland.
Halos were observed at several of our southern stations.

SEA

Rough in the north and west, moderate or slight on our other coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The southerly current of wind seems to be dying out again in the far west, and a change to winds from NW. seems probable before long – but probably only as a temporary alteration.

FORECASTS

For the 24 hours ending at NOON on 29th JANUARY, 1893.

DISTRICTS.	FORECASTS.
↑ 0 SCOTLAND NORTH ↑ 1 SCOTLAND EAST	S^th winds, strong and squally, then moderate and variable; weather very changeable, showery.
2 ENGLAND N.E. 3 ENGLAND EAST 4 MIDLAND COUNTIES	Same as No 5.
5 ENGLAND SOUTH	S^th breezes, fresh to moderate; some slight showers, temperature unsteady.
↑ 6 SCOTLAND WEST ↑ 7 ENGLAND N.W. ↑ 8 ENGLAND S.W. ↑ 9 IRELAND NORTH ↑ 10 IRELAND SOUTH	S^th and Variable winds; very changeable weather, rain at times.
WARNINGS	At 1 pm yesterday to districts 6.9. and 10 "HOIST SOUTH CONE", and at 7·15 pm to districts 0.1.7. and 8. "HOIST SOUTH CONE".

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.80	40	36	WNW	5	c	5
Sumburgh Head	29.74	37	35	W	3	bc	5
Stornoway	29.75	39	38	SE	2	r	2
Aberdeen	29.87	39	35	SE	1	bc	1
Shields	29.93	43	41	SW	2	o	2
Ardrossan	29.87	44	42	SW	3	bc	3
Malin Head ...	29.73	43	40	SSE	5	o	3
Mullaghmore ...	29.75	45	42	SSE	5	o g	4
Belmullet	29.65	46	43	SSE	6	o	*
Holyhead	29.95	45	43	S	3	cg	2

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29.71	47	44	SSE	6	omp	6
Scilly	29.92	48	43	SSE	5	c	3
Jersey	30.07	47	44	E	2	b	2
Hurst Castle ...	30.04	44	42	ESE	1	bm	2
Dungeness	30.03	41	40	S	1	bm	1
North Foreland ...	30.01	38	37	N	2	b	2
London (Westminster)	30.04	40	38	E	0	fg	*
Yarmouth	30.02	40	39	N	2	b	2
Rochefort	30.06	47	45	NEW	1	b	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather fine over Gt. Britain and the north of France, as well as in Spain, Algeria, and Central Russia, but foggy in the southeast of England. Dull elsewhere with rain at some of the French, Belgian, Danish and Norwegian stations, and with snow in the neighbourhood of the Skager Rack, as well as at Prague, Cracow, and Nicolaiff. Unsettled rainy weather setting in later over the western and extreme northern parts of the United Kingdom. Dense fog experienced in many parts of the London area.

Temperature fallen generally, but rises decidedly in Sweden and also in Italy. Morning readings highest (1) 52° at Pangermine, Algiers and Malta, 47° at Barcelona, and 46° at several of the Mediterranean stations; (2) 47° at Rocher Point, and 46° at Valencia Island. Lowest −21° Fahr: at Moscow, −1° at Kharkov, 0 Zero at St Petersburg, +2° at Riga, and 3° at Kiev; below the freezing point in most parts of northern, Eastern and central Europe, as well as over the central parts of England, France and Spain. Rising during day to between 45° and 50° in the west of our Islands, but not exceeding 35° in London. Exceeding 50° in the west and south of France.

Wind light or moderate from the Sᵗʰ on our western coasts, but SWᵗʰ or Wᵗʰ in the eastern parts of Gᵗ Britain, and Nᵗʰ at the Channel stations. Light Sᵗʰ over the greater part of France, Germany, Sweden, Finland, and the Baltic, strong from the same quarter in the south of Norway; Eᵗʰ or SEᵗʰ in the west of Norway. Variable over Austria and the south of Russia, Nᵗʰ or NEᵗʰ in Italy; variable in Spain and Algeria. Subsequently backing to the Sᵗʰ or SEᵗʰ in nearly all parts of our Islands and increasing to a gale at several of our eastern stations.

Barometer highest 30·6 in: and upwards in an anticyclone lying over Central Russia; 30·2 in: and upwards in another system lying over Central Spain. Lowest 29·5 in: and less in a large depression off the west of Norway; a V shaped secondary disturbance reported over the Netherlands and the northeast of France. New depression appearing later off the Irish coast, and barometer falling briskly at all our western stations.

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 made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. 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 29th January, 1893

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. Reading at 32° F. and Sea Level.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	THIS MORNING. (See note at bottom of last page.) Barometer. Reading at 32° F. and Sea Level.	Barometer. Change since Yesterday Morn.	Shade Temp. Dry Bulb.	Shade Temp. Wet Bulb.	Shade Temp. Change in dry since Yesterday.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	Sea (0 to 9).	PAST 24 HOURS. Weather.	Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
		Ins.	°				Ins.		°	°	°							°	Ins.
SCANDINAVIA.	Haparanda ...	29.82	15	N	0	c	29.67	− ·20	22	22	+ 5	SW	2	0	*	c	25	14	0.08
	Hernösand ...	29.91	21	N	0	0	29.73	− ·21	10	9	− 2	N	0	c	*	0	27	7	—
	Stockholm ...	30.10	26	N	0	b	30.00	+ ·01	28	27	− 4	SW	2	0	*	b	32	25	—
	Wisby	30.16	30	SW	2	b	30.12	+ ·13	31	30	− 1	SW	4	0	*	b	32	25	—
	Bodö	29.80	30	ESE	2	c	29.80	− ·10	33	30	+ 3	SE	4	0	2	c	?	27	—
	Christiansund...	29.66	39	SE	1	c	29.58	− ·17	39	37	+ 4	SW	1	0	5	c	41	35	—
	Skudesnaes ...	29.81	39	SSE	8	0	29.73	− ·18	39	35	0	SE	8	0	6	om	39	35	—
	Christiania Fjord (Faerder)	30.01	31	SSW	4	0	29.89	− ·12	32	31	+ 3	SSW	3	0	3	0	32	29	—
	Skagen (The Skaw)	30.02	33	S	4	m	29.93	− ·14	32	31	0	SSW	2	m	1	m	34	28	—
	Fanö	30.00	33	SSE	4	0	29.89	− ·21	27	27	− 5	SSE	4	b	*	0	34	27	—
BRITISH ISLANDS	Sumburgh Head	29.42	40	S	4	0	29.36	− ·18	41	41	0	SSE	3	0	6	70	42	37	0.01
	Stornoway ...	29.27	43	SW	6	0	29.13	− ·21	43	43	+ 3	SE	4	r	4	0	49	36	0.10
	Wick	29.37	42	SE	6	0	29.23	− ·24	42	42	+ 2	S	4	0	4	0	42	38	0.03
	Nairn	29.35	41	SSW	2	c	29.20	− ·26	41	38	− 1	N	0	c	1	c	43	37	—
	Aberdeen ...	29.46	40	S	7	0	29.30	− ·29	41	41	+ 3	SSE	6	ogrq	7	ogrq	42	36	0.11
	Leith	29.43	41	SSE	2	0	29.24	− ·33	43	42	+ 5	SE	2	bc	*	0	46	37	—
	Shields	29.35	44	S	4	0	29.31	− ·37	45	44	+ 8	S	3	r	2	or	45	35	0.02
	Spurn Head ...	29.64	39	SSE	6	0	29.44	− ·36	42	42	+ 5	SSE	4	0	4	or	42	36	0.03
	York	29.61	41	S	2	0	29.37	− ·37	46	45	+ 10	SSE	2	0	*	0	46	35	0.03
	Loughborough	29.66	44	SE	3	0	29.39	− ·39	46	45	+ 10	SSE	4	cpq	*	0	46	36	0.09
	Ardrossan ...	29.38	44	SE	4	0	29.23	− ·28	44	44	+ 6	S	1	om	3	0	44	37	0.08
	Malin Head ...	29.12	44	SSE	6	0	29.17	− ·14	43	42	+ 3	S	4	0	2	0	45	40	0.01
	Mullaghmore ...	29.09	47	SSE	6	c	29.21	− ·09	43	42	− 2	S	3	b	2	opq,c	48	42	0.02
	Belmullet ...	29.04	47	SE	5	0	29.22	− ·05	44	43	0	SW	2	bc	*	op	47	43	0.08
	Donaghadee ...	29.31	46	SSE	7	r	29.23	− ·26	46	45	+ 5	SW	4	0	4	r	46	41	0.58
	Liverpool (Bidston)	29.51	41	SE	4	0	29.31	− ·31	44	44	+ 8	SE	2	c	3	0	45	36	0.14
	Holyhead ...	29.40	46	SE	4	0	29.25	− ·26	45	44	+ 1	S	3	oq	3	oq	47	43	0.23
	Parsonstown ...	29.13	47	SE	2	0	29.26	− ·11	39	38	− 1	N	0	b	*	oqr	48	38	0.07
	Valencia	29.05	46	SSE	4	r	29.36	+ ·06	48	47	0	W	4	bc	4	rm	51	43	0.33
	Roche's Point	29.14	48	SSW	6	c	29.32	− ·09	42	41	− 5	WNW	2	b	4	mcp	49	40	0.25
	Pembroke (St. Ann's Hd.)	29.32	47	SSE	7	0	29.29	− ·23	45	45	0	S	2	cpq	6	0	48	44	0.52
	Scilly	29.30	50	S	8	*	29.41	− ·15	50	48	+ 2	W	6	c	5	r	51	46	0.14
	Prawle Point ...	29.53	46	SSE	6	0	29.42	− ·26	46	46	+ 3	W	7	c	6	orqv	48	35	0.15
	Jersey (St. Aubin's)	29.69	45	SSE	5	0	29.53	− ·29	48	46	+ 7	S	4	omf	3	op	48	40	0.06
	Hurst Castle ...	29.66	44	S	6	c	29.42	− ·38	47	46	+ 6	SW	8	cpq	4	cq	47	40	0.06
	Dungeness ...	29.79	40	S	6	c	29.57	− ·32	43	42	+ 3	S	6	cpq	5	o,c	43	38	0.09
	North Foreland	29.78	37	S	5	0	29.57	− ·31	42	41	+ 4	S	5	cq	5	0	42	36	0.08
	London	29.74	40	S	4	c	29.49	− ·35	46	44	+ 6	S	5	oq	*	bc,o,pq	47	38	0.08
	Oxford	29.63	41	SSE	2	0	29.41	− ·38	47	45	+ 10	S	3	opq	*	opq	48	37	0.07
	Cambridge ...	29.72	38	SE	3	c	29.48	− ·36	47	45	+ 9	S	3	o	*	c	47	36	0.04
	Yarmouth ...	29.79	37	S	5	c	29.57	− ·32	40	39	− 7	S	6	ogq	4	bm,c	40	34	0.08
GERMANY & HOLLAND	Cuxhaven ...	30.11	36	S	2	0	29.95	− ·08	30	29	− 4	SSE	2	b	*	0	36	28	—
	Berlin	30.17	28	SE	3	b	30.12	− ·08	17	16	− 13	SE	3	b	*	b	34	28	—
	Wiesbaden ...	*	*	*	*	*									*	*			
	Munich ...	30.12	25	NE	3	0	30.15	+ ·04	17	7	− 7	SE	4	b	*	0	27	16	—
	The Helder ...	29.93	33	SE	2	b	29.78	− ·28	32	30	− 3	SSE	4	b	2	b	39	32	—
BELGIUM.	Brussels (8 a.m.)	*	*	*	*	*	29.80	− ·24	37	35	+ 3	SSE	6	c	*	b	40	33	—
	Cape Gris Nez	29.79	36	SE	5	bc	29.57	− ·33	43	42	+ 6	S	5	0	5	bc	41	34	0.08
	Paris	29.91	39	SSE	2	b	29.84	− ·16	40	38	+ 5	S	3	r	*	b	44	35	—
	Brest	?	47	S	6	r	?	?	49	49	+ 1	W	5	0	5	0	?	45	0.24
	Lorient	29.69	50	SSW	6	0	?	?	48	48	+ 1	W	6	r	5	0	?	46	0.24
FRANCE AND	Rochefort ...	29.88	47	WSW	4	0	29.82	− ·06	48	46	+ 10	WSW	5	0	*	0	50	34	0.12
	Belfort	?	31	E	2	bc	?	?	32	30	+ 4	E	2	bc	*	bc	47	23	—
	Lyons	30.03	36	W	1	b	30.04	− ·07	33	31	+ 5	SE	1	bc	*	b	37	28	—
	Nice	30.13	43	N	0	0	?	?	40	39	− 2	E	1	0	2	0	50	37	0.04
	Perpignan ...	30.02	47	NW	1	0	30.08	+ ·06	32	?	− 2	SW	1	0	*	0	49	32	—
	Biarritz	29.94	51	S	3	bc	29.93	− ·02	52	46	+ 2	S	3	b	5	bc	54	41	—
PENINSULA.	Corunna	*	*	*	*	*	30.03	+ ·17	56	50	+ 3	SW	6	c	4	*	57	50	0.12
	Lisbon	30.09	56	SSW	4	c	30.13	+ ·07	56	54	+ 3	SSW	4	c	*	c	59	54	0.01

For Explanation of Columns, see bottom of last page.

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

WEATHER CHARTS

for 8 a.m. on Sunday, 29th January 1893.

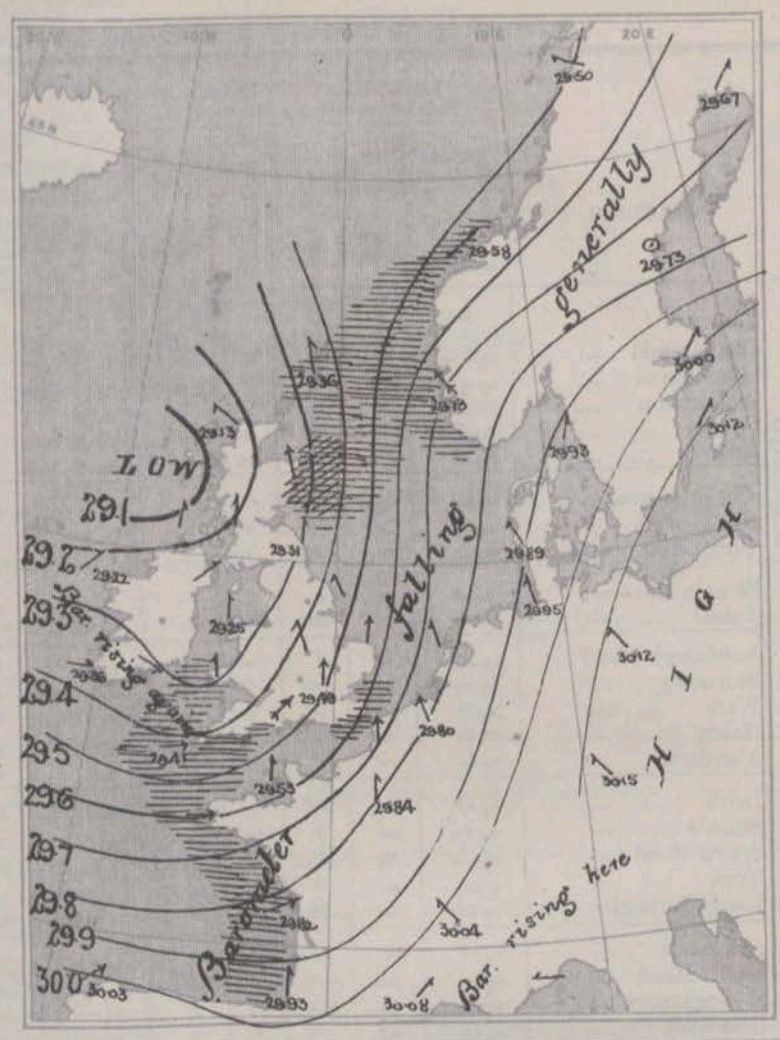
BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

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

WIND—Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus—
= forces above 10; = forces 8 to 10;
= forces 5 to 7; = forces 1 to 4.
⊙ = dead calm.

SEA DISTURBANCE—Where considerable, is shewn thus:
= Rough. = High.



MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of January. During the 20 Years: 1871—1890.

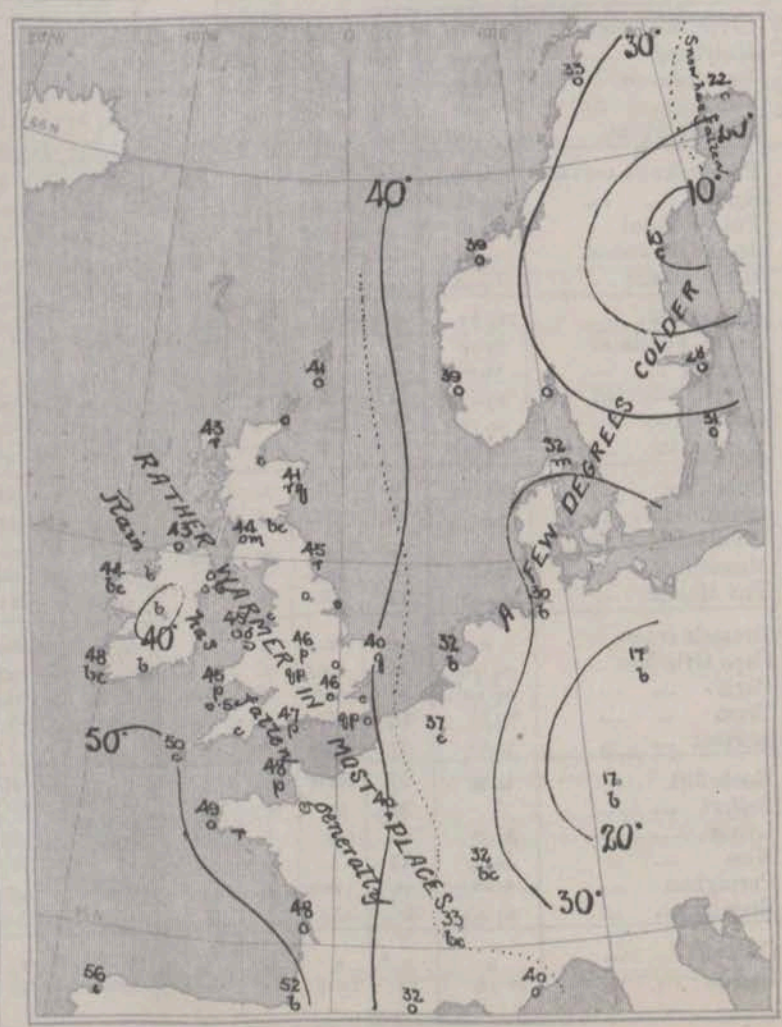
STATIONS.	MEAN READINGS. ins.
Sumburgh Head	29·675
Stornoway	29·682
Wick	29·719
Nairn	29·745
Aberdeen	29·787
Leith	29·825
Shields	29·881
Spurn Head	29·926
York	29·932
Loughborough	29·967
Ardrossan	29·838
Mullaghmore	29·817
Donaghadee	29·856
Holyhead	29·902
Liverpool	29·924
Parsonstown	29·895
Valencia	29·887
Roche's Point	29·908
Pembroke	29·936
Scilly	29·969
Prawle Point	30·006
Jersey	30·032
Hurst Castle	30·002
Dover	30·012
LONDON	30·006
Oxford	29·999
Cambridge	29·993
Yarmouth	29·979

TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.



MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of January.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry	Wet.	RAINFALL. (Inches.)
Sumburgh Head	42·9	35·6	39·7	38·4	3·72
Stornoway	43·3	34·5	39·5	38·4	5·30
Wick	42·4	33·3	38·2	36·8	2·05
Nairn	42·2	32·9	37·2	35·6	1·99
Aberdeen	42·4	33·2	37·3	35·6	2·31
Leith	44·4	35·7	38·8	37·2	1·93
Shields	43·0	34·2	38·2	36·9	1·75
Spurn Head	41·7	34·5	37·7	36·7	1·35
York	42·7	32·5	36·7	35·7	1·87
Loughborough	43·0	32·3	36·4	35·4	2·04
Ardrossan	44·2	36·3	40·0	38·8	4·25
Mullaghmore	46·1	38·0	41·6	40·4	4·36
Donaghadee	44·4	36·1	40·0	39·2	2·98
Holyhead	45·6	38·7	41·7	40·3	3·38
Liverpool	43·5	35·2	38·6	37·0	2·22
Parsonstown	45·0	34·2	38·0	37·8	3·12
Valencia	49·5	40·4	44·5	43·3	6·69
Roche's Point	47·7	39·5	43·2	41·9	5·59
Pembroke	45·5	39·6	42·7	41·3	3·75
Scilly	48·8	42·9	46·4	44·9	3·73
Prawle Point	46·2	37·6	42·0	41·0	3·09
Jersey	45·8	38·3	41·8	40·4	3·21
Hurst Castle	45·0	36·3	40·3	39·5	2·94
Dover	43·5	35·8	39·2	38·1	2·58
LONDON	44·1	33·8	37·8	36·6	2·12
Oxford	43·1	33·6	37·1	36·1	2·26
Cambridge	43·3	31·7	36·2	35·4	1·54
Yarmouth	41·5	34·8	37·5	36·7	1·95

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30·1 ins: and more to 29·9 ins: (1) over Germany and the Baltic; (2) over the Peninsula and the southern parts of the Bay of Biscay.
Lowest, 29·2 ins: and less, over the western parts of Scotland and the north of Ireland; 29·3 ins and less, over the Irish Sea and St George's Channel.
Gradients steep over the North Sea, rather so over the Channel and France, and changing quickly.
Barometer falling at all but the Irish stations; most over England.

TEMPERATURE

Highest, 56° at Lisbon and Corunna, 52° at Biarritz, 50° at Sicily, 48° at Jersey and Valencia, and above 40° over our Islands except in the east of Scotland.
Lowest, (1) 10° at Hernösand, 22° at Haparanda, 28° at Stockholm; (2) 17° at Berlin and Munich, 27° at Jaroö; (3) 37° at Aberdeen.
It has risen very quickly over England during the night, but fallen in Ireland, and continues to change very irregularly.

WIND

S. to W., and light, in Ireland; W. to SW., strong to a gale in the Channel, S. to SE., fresh to strong over the North Sea and East of Gt Britain; SE. a gale at Shetlandmals, and SE. moderate at Stornoway and Dumbrugh Hd.
A S. gale has been experienced on our western and northern coasts since last evening.

WEATHER

Fine and bright in Ireland, cloudy, changeable, and unsettled over Great Britain and the north of France, with rain in places.
Rain has fallen generally — most at Pembroke and Donaghadee, where the fall exceeded 0·8 inch.

SEA

High at Aberdeen, rough at Dumbrugh Hd, on our southwestern coasts and at Ushant, rather rough in the Channel and off the North Ireland, moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 30th JANUARY, 1893.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	None issued	6 SCOTLAND WEST	None issued
1 SCOTLAND EAST		7 ENGLAND N.W.	
↓ 2 ENGLAND N.E.		8 ENGLAND S.W.	
↓ 3 ENGLAND EAST		9 IRELAND NORTH	
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
↓ 5 ENGLAND SOUTH		WARNINGS	At 7·15 pm yesterday to districts 2, 3 and 5 "Hoist South Cone"

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.88	39	?	SSE	6	om	5
Sumburgh Head	29.43	41	39	S	4	r	6
Stornoway	29.29	43	42	SW	6	o	5
Aberdeen	29.51	37	36	S	5	ogq	6
Shields	29.59	40	38	S	4	o	2
Ardrossan	29.37	44	43	SE	4	r	4
Malin Head ...	29.26	43	42	SSE	4	o	2
Mullaghmore ...	29.22	48	44	SSE	5	ogr	4
Belmullet	29.14	47	45	SE	5	p	*
Holyhead	29.47	45	44	S	5	oq	5

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30.12	50	49	SSE	6	rm	6
Scilly	29.44	50	48	S	7	m	5
Jersey	29.74	44	42	SE	5	o	4
Hurst Castle ...	29.71	42	41	SSE	5	c	3
Dungeness... ...	29.85	40	38	SSW	6	o	5
North Foreland...	29.81	39	38	SSE	4	c	3
London (Westminster)	29.76	44	40	SE	3	bc	*
Yarmouth	29.81	39	38	S	5	bm	4
Rochefort	29.89	47	45	WSW	3	o	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather fair at many of the English stations, but dull in nearly all other parts of our Islands and the Continent, with rain in some of the western and northern districts, and with snow over the Gulf of Finland as well as at Åbo. Fog reported in several parts of Poland and Austria, but weather fine and bright in Algeria, ~~and~~ the south of Spain, and the extreme south of Italy. Rain falling later in nearly all parts of the United Kingdom and also in the west of France, but slly clearing in many parts of Central Europe.

Temperature rose over Islands, France, and Spain and also over the Baltic, but fallen elsewhere. Morning readings highest (1) 53° at Lisbon, 51° at Algiers and 50° at Biarritz; (2) 48° at Valencia Island, Scilly, and Brest, and 47° at Rocher Point; above 40° at most of our western and southern stations. Lowest −20° Fahr: at Moscow, −10° at Kharkoff, −2° at Kiev, Lemberg, and Buda Pesth, and 1° at Archangel; considerably below the freezing point over Sweden, Russia, and Austria generally, and slightly below it over central parts of France and Spain. Rising during day to between 45° and 48° in most parts of the United Kingdom, to 50° or more in the south of France and to 55° or more in Spain and the south of Italy, the highest reading of all being 63° at Palermo.

Wind fresh or strong from the S^ly or SE^ly over our Islands, France, and the North Sea; light from the same quarters over Finland, Germany, and the Baltic. Light from the E^ly or NE^ly over the central and southern parts of Russia; N^ly or NW^ly in Italy, light from the S^ly in Spain and Algeria. Subsequently increasing to a gale from the S^ly at the mouth of the Channel and also in the south of Norway; no important change occurring elsewhere.

Barometer highest 30·6 ins: and upwards over Central Russia, 30·2 ins: and upwards in an anticyclone lying over nearly the whole of Russia, Austria, and Eastern Germany. Lowest 29·3 ins: and less, in a depression lying to the westward of our Islands; gradients rather steep over the whole of our Islands and the North Sea. Brisk fall taking place during day on our western coasts, and gradients over the United Kingdom becoming rather steeper.

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 made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. 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, 30th January, 1893

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. Reading at 32° F. and Sea Level.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	THIS MORNING. (See note at bottom of last page.) Barometer. Reading at 32° F. and Sea Level.	Barometer. Change since Yesterday Morn.	Shade Temp. Dry Bulb.	Shade Temp. Wet Bulb.	Shade Temp. Change in dry since Yesterday.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	Sea (0 to 9).	PAST 24 HOURS. Weather.	Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
		Ins.	°				Ins.		°	°	°							°	Ins.
Scandinavia	Haparanda ...	29.57	23	NE	0	c	29.71	+.04	21	21	− 1	NNE	2	0	*	c	27	14	0.08
	Hernösand ...	29.76	18	NE	0	b	29.69	−.04	18	17	+ 8	NE	0	c	*	b	30	16	-
	Stockholm ...	29.92	27	NE	0	0	29.86	−.14	23	23	− 5	SW	2	f	*	0	32	23	-
	Wisby	29.98	28	SW	4	0	29.92	−.20	26	25	− 5	NNW	4	0	*	0	32	25	-
	Bodö	29.88	37	SSW	6	r	29.65	+.15	39	32	0	N	4	m	2	r	37	30	0.24
	Christiansund...	29.64	39	SSE	1	0	29.62	+.04	37	36	− 2	NE	0	0	4	0	39	37	0.12
	Skudesnaes ...	29.64	39	SSE	6	r	29.72	−.01	39	38	0	SSE	6	0	5	r	41	37	-
	Christiania Fjord (Færder)	29.88	31	SSW	4	0	29.80	−.09	29	28	− 3	S	4	f	3	0	34	28	-
	Skagen (The Scaw)	29.87	28	SE	4	f	29.80	−.13	30	30	− 2	S	3	S	1	f	32	24	-
	Fanö	29.77	32	SSE	4	0	29.79	−.10	33	33	+ 6	SSE	2	f	*	c	34	27	-
British Islands	Sumburgh Head	29.81	42	SSE	2	r	29.56	+.20	44	42	+ 3	SW	2	c	5	r	45	40	0.36
	Stornoway ...	29.26	45	S	2	0	29.47	+.34	47	47	+ 4	SW	4	0	4	r, 0	47	37	0.08
	Wick	29.32	42	S	3	bc	29.58	+.35	42	42	0	S	3	0	2	bc	43	39	0.03
	Nairn	29.35	44	NE	0	b	29.58	+.38	44	42	+ 8	NE	0	c	0	b	49	39	-
	Aberdeen ...	29.40	42	SW	2	bc	29.68	+.38	40	39	− 1	SSW	2	cm	4	bc	43	34	0.10
	Leith	29.42	45	S	2	c	29.69	+.45	48	45	+ 5	S	1	0	*	c	50	40	0.03
	Shields	29.48	47	NE	0	c	29.77	+.46	44	43	− 1	SSE	1	cw	2	c	48	37	-
	Spurn Head ...	29.52	39	SSE	3	0	29.89	+.45	41	40	− 1	SW	3	cw	2	0	42	38	-
	York	29.51	44	SSW	1	bc	29.87	+.50	42	41	− 4	S	1	0	*	r, bc	47	40	0.31
	Loughborough	29.58	47	W	2	c	29.93	+.54	44	43	− 2	SW	2	cw	*	c	51	38	0.01
	Ardrossan ...	29.46	44	S	2	0	29.68	+.45	45	44	+ 1	SSE	2	om	2	0	45	42	0.01
	Malin Head ...	29.43	45	NSW	4	cp	29.52	+.35	48	46	+ 5	S	5	0	2	c, p	48	43	0.01
	Mullaghmore ...	29.49	46	S	3	bp	29.51	+.30	51	48	+ 8	S	7	cq	4	b, p	51	42	0.02
	Belmullet ...	29.47	48	SW	3	0	29.46	+.24	50	48	+ 6	SSW	6	0	*	bc, o	50	43	0.07
	Donaghadee ...	29.53	46	NSW	2	b	29.69	+.46	47	46	+ 1	NSW	4	bc	3	bc	50	44	0.01
	Liverpool (Bidston)	29.58	43	W	4	b	29.87	+.56	48	47	+ 4	SSW	1	c	2	b	49	43	0.03
	Holyhead ...	29.56	46	NSW	2	b	29.80	+.55	47	46	+ 2	SSW	4	ogm	3	b	48	44	0.01
	Parsonstown ...	29.60	46	SW	1	bc	29.64	+.38	49	47	+ 10	SW	1	og	*	bc	50	38	0.04
	Valencia	29.64	51	S	4	cp	29.56	+.20	52	50	+ 4	S	6	ogm	5	cp	53	47	0.01
	Roche's Point	29.65	50	W	3	bc	29.70	+.38	50	49	+ 8	SW	6	rm	5	bc	52	42	0.01
	Pembroke (St. Ann's Hd.)	29.69	47	W	4	b	29.84	+.53	47	47	+ 2	S	5	bcm	6	b	48	45	0.04
	Scilly	29.78	50	W	4	cpm	29.88	+.47	50	50	0	S	5	o	5	cpq	52	48	-
	Prawle Point ...	? 29.76	47	W	4	o	30.00	+.58	47	47	+ 1	SW	3	om	3	o	49	46	0.03
	Jersey (St. Aubin's)	29.81	50	W	5	cqp	30.10	+.57	47	45	− 1	S	4	bcm	3	cpm	52	46	0.02
	Hurst Castle ...	29.71	44	W	5	b	30.03	+.61	45	45	− 2	SW	5	cm	4	b	48	41	0.04
	Dungeness ...	29.61	44	NSW	5	c	30.04	+.47	43	43	0	W	4	o	3	cqp	46	40	0.03
	North Foreland	29.57	49	NSW	4	oq	30.03	+.46	41	41	− 1	NSW	2	b	3	oq, b	49	40	0.01
	London	29.63	48	SW	2	o	30.03	+.54	44	42	− 2	SSW	3	c	*	o, p, b	51	39	0.01
	Oxford	29.74	43	NSW	1	b	30.00	+.59	45	44	− 2	SSW	3	oq	*	bp	51	40	0.05
	Cambridge ...	? 29.63	47	SW	1	c	30.01	+.53	42	41	− 5	S	1	b	*	c, b	49	38	0.02
	Yarmouth ...	29.49	41	S	4	r	29.94	+.37	41	40	+ 1	NSW	3	bcf	4	rmq	42	36	0.02
Germany & Holland	Cuxhaven ...	29.85	37	SSE	2	0	29.84	−.11	37	36	+ 7	SW	1	f	*	0	37	30	0.02
	Berlin	30.05	25	SE	3	b	29.96	−.16	28	28	+ 11	SE	2	o	*	b	30	17	-
	Wiesbaden ...	*	*	*	*	*	30.06		40	39		SW	2	o	*	*	40	34	0.12
	Munich ...	30.09	26	E	3	c	30.16	+.01	37	36	+ 20	SW	5	c	*	c	37	16	0.04
	The Helder ...	? 29.67	39	S	5	r	29.97	+.19	39	38	+ 7	W	3	b	3	r	41	32	0.08
France and Belgium	Brussels (9 a.m.)	*	*	*	*	*	30.10	+.30	40	40	+ 3	NSW	4	f	*	r	45	37	0.08
	Cape Gris Nez	29.64	42	SW	6	o	30.01	+.44	43	43	0	NSW	5	c	4	o	45	39	0.04
	Paris	29.86	47	SSW	6	o	30.19	+.35	41	40	+ 1	S	2	o	*	o	49	40	0.08
	Brest	?	50	W	3	m	?	?	49	49	0	S	3	o	5	m	50	48	-
	Lorient	29.93	51	W	5	c	30.12	?	49	49	+ 1	SSW	5	o	5	c	54	48	-
France and Switzerland	Rochefort ...	30.02	49	NSW	5	c	30.18	+.36	40	40	− 8	SSE	3	f	*	c	55	37	-
	Belfort	?	35	W	3	r	?	?	36	34	+ 4	W	3	o	*	r	41	32	0.08
	Lyons	30.14	43	S	3	o	30.32	+.28	39	38	+ 6	SSW	1	c	*	o	47	33	0.04
	Nice	30.24	42	E	0	r	30.28	+.34	41	40	+ 1	NE	2	c	2	r	43	40	0.04
	Perpignan ...	30.21	35	W	3	r	30.32	+.30	36	36	+ 4	SW	1	b	*	c	54	32	-
	Biarritz	30.14	53	NSW	3	c	30.20	+.27	50	44	− 2	S	3	c	6	c	59	45	-
Peninsula	Corunna	*	*	*	*	*													
	Lisbon	30.21	56	S	3	b	30.28	+.15	50	50	− 6	E	2	f	*	* b	61	50	-

For Explanation of Columns, see bottom of last page.

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

WEATHER CHARTS

for 8 a.m. on Monday, 30th January, 1893.

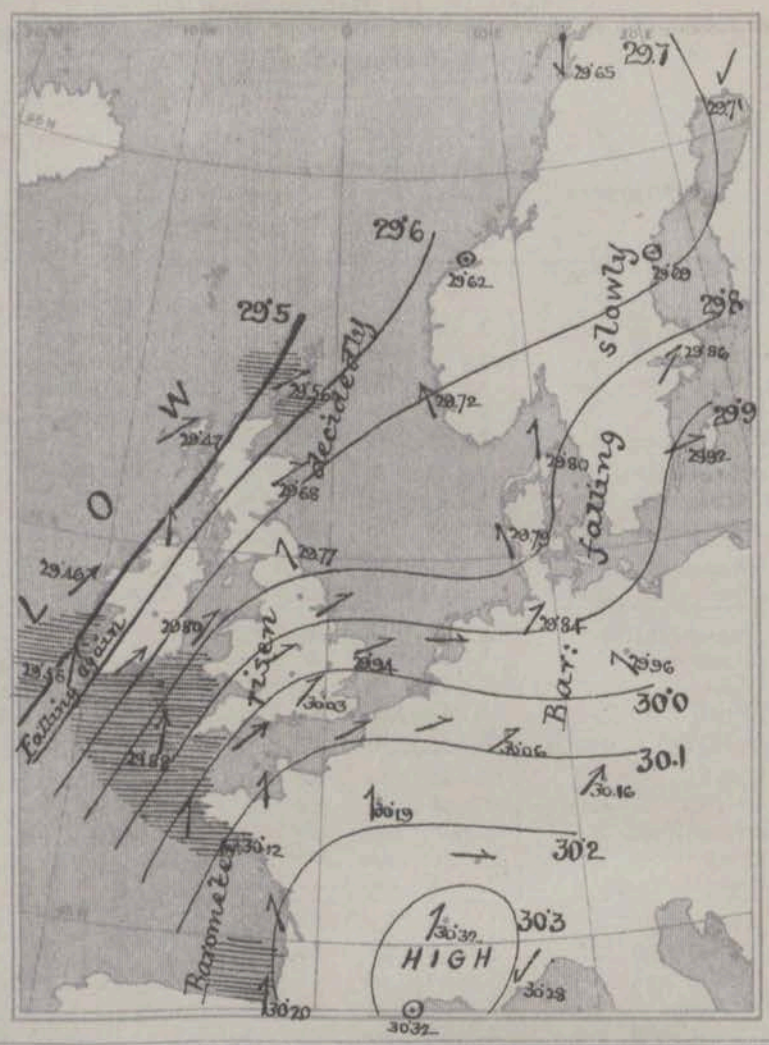
BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

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

WIND.—Arrows show the prevailent winds. They fly with the wind and their barbs and feathers refer to force thus—
= forces above 10; = forces 8 to 10;
= forces 5 to 7; = forces 1 to 4.
⊙ = dead calm.

SEA DISTURBANCE.—Where considerable, is shewn thus:
= Rough. = High.



MEAN HEIGHT OF THE BAROMETER

at 8·0 a.m. for the month of January.
During the 20 Years: 1871—1890.

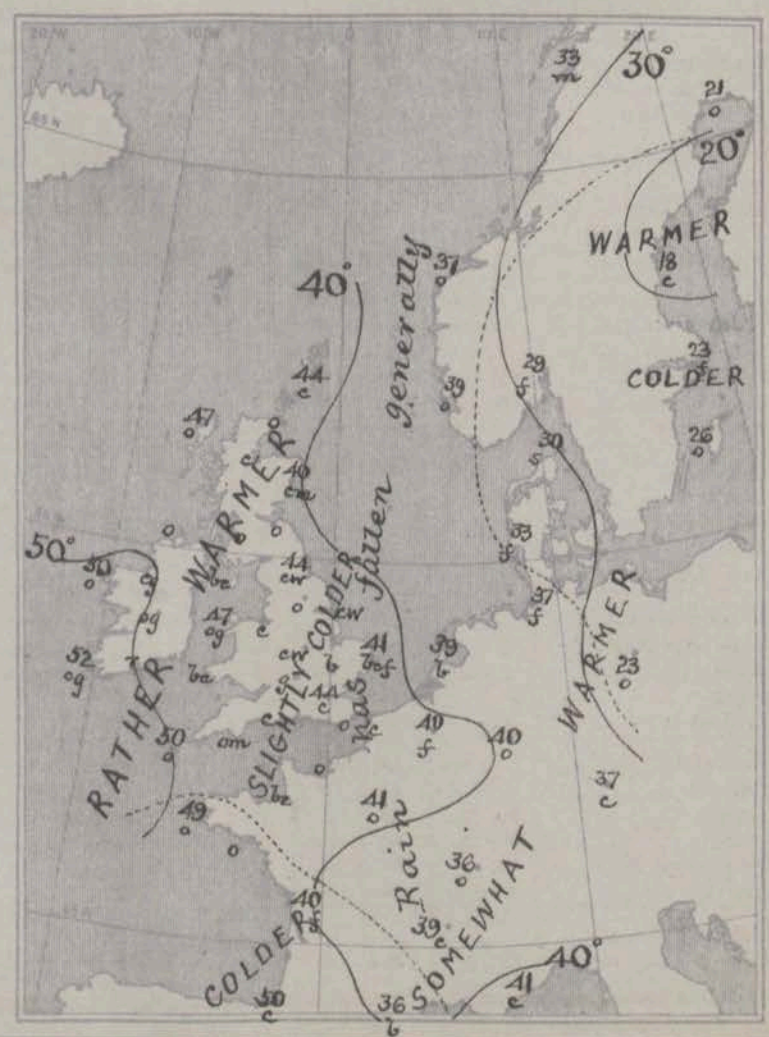
STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29·675
Stornoway	29·682
Wick	29·719
Nairn	29·745
Aberdeen	29·787
Leith	29·825
Shields	29·881
Spurn Head	29·920
York	29·932
Loughborough	29·967
Ardrossan	29·838
Mullaghmore	29·817
Donaghadee	29·850
Holyhead	29·902
Liverpool	29·924
Parsonstown	29·895
Valencia	29·887
Roche's Point	29·908
Pembroke	29·936
Scilly	29·969
Prawle Point	30·006
Jersey	30·012
Hurst Castle	30·002
Dover	30·012
LONDON	30·006
Oxford	29·999
Cambridge	29·993
Yarmouth	29·979

TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE.—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shown by Letters of the Beaufort Scale.

RAINFALL.—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.



MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of January.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	RAINFALL. (Inches.)
Sumburgh Head	42·9	35·6	39·7	38·4	3·72
Stornoway	45·3	34·5	39·6	38·4	5·30
Wick	42·4	33·3	38·2	36·8	2·05
Nairn	42·2	32·9	37·2	35·6	1·99
Aberdeen	42·4	33·2	37·3	35·6	2·31
Leith	44·4	33·7	38·6	37·2	1·93
Shields	45·0	34·2	38·2	36·9	1·75
Spurn Head	41·7	34·5	37·7	36·7	1·35
York	42·7	32·5	36·7	35·7	1·87
Loughborough	43·0	32·3	36·4	35·4	2·04
Ardrossan	44·2	35·3	40·0	38·8	4·25
Mullaghmore	45·1	38·0	41·6	40·4	4·36
Donaghadee	44·4	35·1	40·0	39·2	2·98
Holyhead	45·6	38·7	41·7	40·3	3·38
Liverpool	43·5	35·2	38·6	37·0	2·22
Parsonstown	45·6	34·2	38·9	37·8	3·12
Valencia	49·5	40·4	44·5	43·3	6·69
Roche's Point	47·7	39·5	43·2	41·9	5·50
Pembroke	45·5	39·6	42·7	41·3	3·73
Scilly	48·8	42·9	46·4	44·9	3·73
Prawle Point	46·2	37·6	42·0	41·0	3·09
Jersey	45·8	38·3	41·8	40·4	3·21
Hurst Castle	45·0	36·3	40·3	39·5	2·94
Dover	43·5	35·8	39·2	38·1	2·58
LONDON	44·1	34·8	37·6	36·6	2·12
Oxford	43·1	33·6	37·1	36·1	2·26
Cambridge	43·3	31·7	36·3	35·1	1·54
Yarmouth	41·5	34·6	37·5	36·7	1·95

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·3 ins: and more to 30·0 ins: over France, the Channel and the southern part of Germany.
Lowest, 29·5 ins: and less, off our extreme western coasts.
Gradients somewhat steep in the west, and increasing.
Barometer has begun to fall again in the west, but is rising on our north and east coasts.

TEMPERATURE

Highest, 50° to 52° in the west and south of Ireland, 50° at Biarritz and Lisbon, 47° at Jersey, Holyhead, and Tenby.
Lowest, (1) 18° at Hernösand, 21° at Haparanda, 23° at Stockholm; (2) 28° at Berlin. [It is above 40° at all our own stations].

WIND

SW^ly to S^ly, moderate to light, on the Continent; S^ly in our Islands — moderate to light at the eastern stations, fresh to strong and squally, in the west.
It has backed very generally from W. and is increasing in force at all the western stations.

WEATHER

Fine and bright at Yarmouth, the North Foreland, and the Helder, cloudy or overcast elsewhere, with rain at several of our western stations — very changeable generally.
Rain has fallen during the preceding 24 hours in most places, but the amounts collected were small.

SEA

Rough on our southwestern coasts and off Ushant, moderate to slight in most other places, smooth off our northeast coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A new series of depressions is approaching Ireland from the Atlantic. Our west and northwest coasts have therefore again been warned, and it has not been deemed advisable to lower the signals already flying in the northeast, east, and southeast.

FORECASTS

For the 24 hours ending at NOON on 31st JANUARY, 1893.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
↓ 0 SCOTLAND NORTH	S^ly winds, strong, a gale in places; rainy, unsettled.	↓ 6 SCOTLAND WEST	S^ly and SW^ly gales and strong winds; squally, rainy.
1 SCOTLAND EAST	Same as No 5.	↓ 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	S^ly winds, increasing considerably in force; becoming squally and at times rainy.	WARNINGS	At 7 pm yesterday to parts of Districts 0, 9 and 10. and at 9·55 am today to Districts 6, 7, and part of 8. Hoist South Cone. The signals are still flying in Districts 2, 3 and 5.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29·68	41	39	ESE	6	om	6
Sumburgh Head							
Stornoway	29·18	46	46	S	8	r	8
Aberdeen							
Shields							
Ardrossan							
Malin Head ...	29·31	47	45	NSW	4	c	2
Mullaghmore ...							
Belmullet	29·41	50	48	SW	8	bc	*
Holyhead	29·45	48	46	WNW	2	b	2

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia							
Scilly							
Jersey	29·68	52	48	NSW	5	c	4
Hurst Castle ...							
Dungeness... ...	29·52	45	44	SW	6	c	5
North Foreland...	29·51	45	44	SSW	4	o	4
London							*
Yarmouth							
Rochefort	29·91	52	50	NSW	5	bc	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather squally and showery in many parts of Great Britain, but fine in Ireland. Fine also over Denmark and central Europe generally, but dull in nearly all other parts of the Continent, with fog in Austria, rain in the north of France and at Trieste, and snow at Kuopio, St. Petersburg and Nicolaieff. Some improvement taking place later over Great Britain, but dull, showery weather setting in over Ireland.

Temperature risen in most part of western Europe and also in Russia, but fallen elsewhere. Morning reading highest 56° at Coruña and Lisbon, 54° at Barcelona, and 52° at Biarritz, Algiers and Malta; above 45° in many parts of England, and also in the west of France. Lowest -18° F. at Moscow, -10° at Cracow, -7° at Odessa, and -6° at Kharkov; below 10° in most parts of Russia, Poland and Austria, and below 20° at several of the Swedish and German stations. Rising during day to between 50° and 53° in many parts of the United Kingdom, and to 55° or more in the west of France, the highest reading being 59° at Biarritz.

Wind moderate to strong from the W.wd. in the southwest of our Islands and the west of France, and from the S.wd. or SE.wd. in the northern and eastern parts of the United Kingdom, as well as in Germany, Denmark, the Netherlands and the west of Norway. Light or moderate from SW. over Sweden and the Baltic provinces, variable over the central and southern parts of Russia, SE. by S. in Austria, E. by S. or NE. by S. in Italy. Fresh or strong from the SW.wd. in Spain; variable in Algeria.

Barometer highest 30·4 ins. to 30·5 ins. over Austria, the Black Sea and the central and southern parts of Russia, 30·1 ins. and upwards over nearly the whole of central, southern and eastern Europe, with the Mediterranean. Lowest 29.1 ins. and less in a depression lying off the west of Scotland; secondary disturbances lying over the Irish Sea and St. George's Channel. Depression subsequently moving away in a NNE. by E. direction, but new system beginning to approach the Irish coasts in evening.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD

FROM THE 22ND TO 28TH JAN. 1893

At the commencement of this week pressure was highest (30.6 ins. and more to 30.5 ins.) over the Bay of Biscay, the west of France and southwest of our Islands, lowest 29.9 ins. and less over the Shetland Islands and west of Norway. The conditions were therefore favourable for W. by S. to NW. by N. winds, but although these prevailed very generally and were for the more part anticyclonic the temperature was high and rainfall slight.

During the week the area of high pressure moved gradually in an easterly direction, and, on Saturday, covered Russia and Germany, while the lowest pressures were found off our western coasts. Temperature had changed gradually and jerkily, while this transition was in progress, but although the wind had become S. by E. the thermometer readings over our Islands were, if anything, less high than they were when the wind was NW. by N. Rainfall, however, became more general, and was heavier at the western stations than elsewhere. A well marked depression advanced in a northeasterly direction over our western and northern districts on Thursday, and a large low-pressure area lay off our extreme western coasts on Saturday – threatening the advance of S. by E. gales for all our coasts.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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

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DAILY WEATHER REPORT

for 8 a.m. on TUESDAY 31ST JANUARY. **1893**

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. Reading at 32° F. and Sea Level.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	THIS MORNING. (See note at bottom of last page.) Barometer. Reading at 32° F. and Sea Level.	Barometer. Change since Yesterday Morn.	Shade Temp. Dry Bulb.	Shade Temp. Wet Bulb.	Shade Temp. Change in dry since Yesterday.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	Sea (0 to 9).	PAST 24 HOURS. Weather.	Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
		Ins.	°				Ins.		°	°	°							°	Ins.
SCANDINAVIA.	Haparanda ...	29.80	19	E	2	0	29.84	+.13	5	4	−.16	N	2	0	*	0	23	2	.004
	Hernösand ...	29.75	23	NE	2	bc	29.90	+.21	18	17	0	Z	0	b	*	bc	29	9	.004
	Stockholm ...	29.80	25	SW	2	0	29.89	+.03	26	25	+3	Z	0	0	*	0	30	19	—
	Wisby	29.88	32	SW	4	0	29.93	+.01	34	33	+8	WNW	4	0	*	0	2	23	.004
	Bodö	29.74	29	W	2	bc	29.89	+.24	23	19	−.10	NE	2	b	1	bc	34	21	—
	Christiansund...	29.80	36	NE	4	0	29.81	+.19	33	29	−4	E	1	0	0	0	39	2	.028
	Skudesnaes ...	29.85	37	SSE	6	T	29.69	−.05	41	41	+2	SSE	4	0 f	4	0 f b	2	37	—
	Christiania Fjord (Faerder)	29.80	33	SW	3	b	29.84	+.04	29	29	−2	SSW	2	f	1	b	1	29	—
	Skagen (The Scaw)	29.90	35	WSW	2	f	29.86	+.06	35	35	+5	WSW	0	m	0	7	36	30	0.16
	Fanö	29.96	35	WSW	4	0	29.90	+.11	33	33	0	SW	4	0	*	0	36	32	—
	Sumburgh Head	29.62	43	Z	0	c	29.89	−.17	44	43	0	Z	0	c	4	c	45	42	.001
	Stornoway ...	29.43	47	SW	4	0	29.29	−.20	44	43	−3	SW	6	0	5	0	48	40	.004
	Wick	29.56	45	S	5	0	29.35	−.23	44	42	+2	S	3	c	3	0	46	42	.003
	Nairn	29.53	50	SW	3	c	29.35	−.23	47	44	+3	S	1	c	0	c	52	42	—
	Aberdeen ...	29.67	45	S	4	cq	29.45	−.23	44	42	+4	SSW	3	cq	4	cq, cq	47	40	—
	Leith	29.65	47	WSW	4	0	29.46	−.23	47	43	−1	S	5	b	*	0	54	44	.007
	Shields	29.78	50	S	3	c	29.56	−.18	45	44	+1	S	4	0 p	2	c	53	41	—
	Spurn Head ...	29.88	44	SSW	3	c	29.76	−.13	44	44	+3	SSW	3	Tc	3	Tc	48	40	.008
	York	29.86	48	S	1	bc	29.72	−.15	49	46	+7	S	1	b	*	bc	53	41	—
	Loughborough	29.92	49	SSW	4	c	29.82	−.11	47	45	+3	SW	4	b	*	cp	55	44	.011
BRITISH ISLANDS	Ardrossan ...	29.58	48	SSE	5	0	29.46	−.22	45	44	0	SW	5	T	4	0	48	43	.015
	Malin Head ...	29.37	50	S	6	cp	29.40	−.12	43	42	−5	SW	5	0T	3	0, cp	52	42	.004
	Mullaghmore ...	29.40	51	S	6	bc	29.40	−.02	44	43	−7	WSW	5	0 qp	4	cqp bcp	54	42	.035
	Belmullet ...	29.35	50	S	6	0 q	29.51	+.05	46	44	−4	SW	3	b	*	0 bqq b	50	44	.064
	Donaghadee ...	29.56	49	S	7	0	29.54	−.15	46	44	−1	W	6	c	3	0, 1	50	45	.003
	Liverpool (Bidston)	29.77	50	SSE	4	0	29.73	−.14	48	44	0	SW	4	b	3	0	51	43	.007
	Holyhead ...	29.67	48	S	5	Tgm	29.68	−.12	47	45	0	SW	5	mqR	5	0 mg Tgm	49	46	.017
	Parsonstown ...	29.59	50	SW	1	0	29.65	+.01	46	44	−3	SW	2	c	*	0 rb	53	43	.043
	Valencia	29.51	52	S	5	cqm	29.74	+.18	49	46	−3	SW	5	bcm	6	cqm	53	46	.010
	Roche's Point	29.62	48	SW	4	bc	29.77	+.07	48	47	−2	W	4	b	4	p, bqp	51	47	.025
	Pembroke (St. Ann's Hd.)	29.73	49	S	6	T	29.88	−.01	48	46	+1	SW	5	bcm	7	T	49	46	.007
	Scilly	29.78	52	S	6	m	29.90	+.02	50	49	0	SW	5	m	5	0 pm m	53	48	.015
	Prawle Point ...	29.93	48	SSW	5	T	29.87	−.03	48	48	+1	SW	5	mq	4	T, f	50	47	.022
	Jersey (St. Aubin's)	30.08	48	SSE	3	cq	30.06	−.04	50	49	+3	SSE	5	qm	4	cmqp	50	46	.003
	Hurst Castle ...	30.02	47	SSW	6	cdpm	29.97	−.06	46	45	+1	WSW	5	qp	4	cdpm	48	43	.006
	Dungeness ...	30.07	45	SW	5	c	29.97	−.07	45	45	+2	SW	6	cp	4	c	46	42	.003
	North Foreland	30.08	46	WSW	3	0	29.97	−.06	48	47	+7	SW	4	q	3	0 u	50	39	—
	London	30.03	48	SSW	4	c	29.93	−.10	50	49	+6	SW	4	b	*	cqT	51	43	.005
	Oxford	29.93	44	S	5	T	29.89	−.11	49	47	+4	SW	3	u	*	0T	51	45	.021
	Cambridge ...	30.00	47	S	2	c	29.96	−.11	49	47	+7	SW	2	0	*	c	52	40	.003
	Yarmouth ...	30.00	43	SSW	3	bc	29.97	−.07	48	47	+7	SSW	3	cp	3	bm bc	49	39	—
GERMANY & HOLLAND	Cuxhaven ...	30.04	39	WSW	2	f	30.04	+.20	39	38	+2	SSW	3	bc	*	f	40	37	—
	Berlin	30.10	36	WNW	3	f	30.15	+.23	38	37	+10	SW	2	0	*	f	39	2	.004
	Wiesbaden ...	30.32					30.32	+.26	36	35	−4	W	1	0	*		46	36	—
	Munich ...	30.34	28	SW	3	bc	30.30	+.23	28	28	−9	S	4	b	*	bc	41	27	.004
	The Helder ...	30.13	40	SW	4	c	29.97	+.02	41	40	+2	SSW	7	T	4	c	48	37	—
FRANCE AND BELGIUM.	Brussels (9 a.m.)						30.14	+.04	44	42	+4	SSW	5	0	*	0	46	39	—
	Cape Gris Nez	30.07	48	SW	5	c	29.97	−.02	43	42	0	SW	6	0	6	c	45	37	—
	Paris	30.26	46	SW	2	0	30.23	+.04	41	37	0	S	3	b	*	0	49	31	—
	Brest		50	S	5	m			50	50	+1	WSW	3	f	5	m	52	46	.016
	Lorient	30.11	51	SSW	6	0	30.10	−.02	51	51	+2	SSW	5	fT	5	0	54	50	.028
	Rochefort ...	30.21	48	S	3	b	30.26	+.08	48	40	+3	WSW	3	c	*	f, b	50	37	—
	Belfort		34	W	1	bc			32	29	−8	E	3	bc	*	bc	44	24	—
	Lyons	30.28	40	W	1	b	30.45	+.13	28	27	−11	WSW	1	f	*	b	50	26	—
	Nice	30.32	45	E	0	0	30.42	+.14	40	38	−1	E	1	fc	2	0	46	37	—
	Perpignan ...	30.32	50	NE	2	0	30.41	+.05	46	44	+10	SW	1	0	*	0	53	45	—
	Biarritz	30.21	56	S	3	c	30.28	+.08	54	47	+4	S	4	c	4	c	63	41	—
PENINSULA.	Corunna																		
	Lisbon	30.33	56	S	3	c	30.41	+.13	53	52	+3	ESE	3	0	*	b	63	50	—

For Explanation of Columns, see bottom of last page.

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

WEATHER CHARTS

for 8 a.m. on Tuesday, 31st January, 1893.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

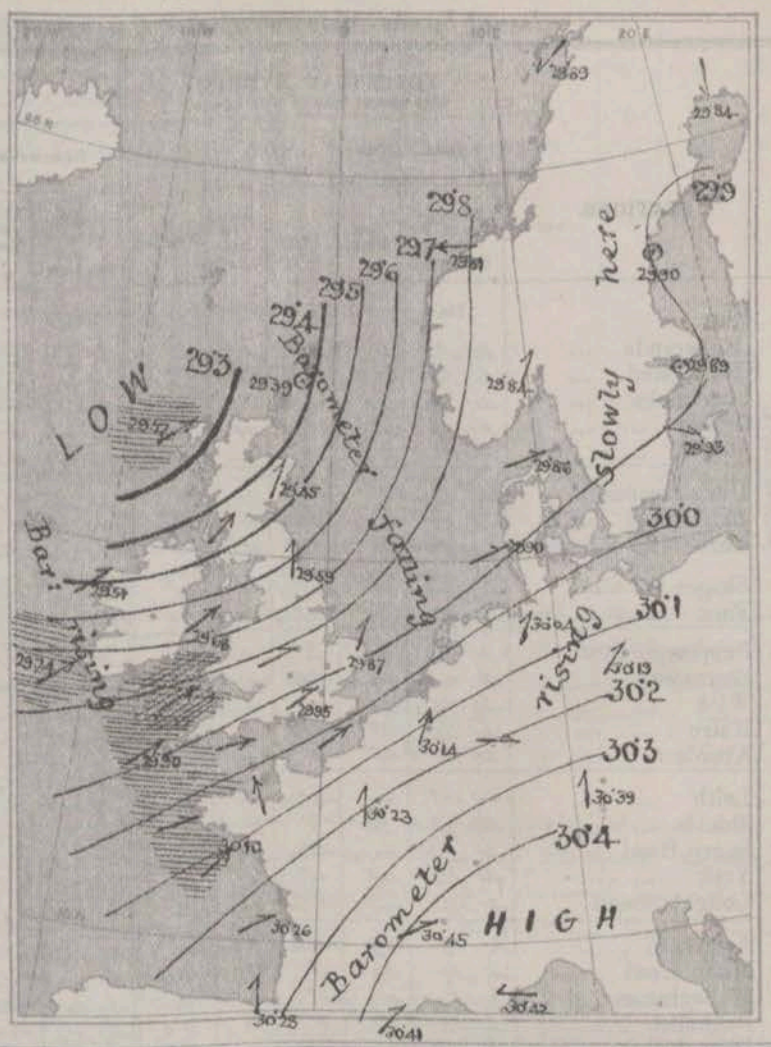
BAROMETER.—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

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

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

SEA DISTURBANCE.—Where considerable, is shown thus:

= Rough. = High.



MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of January. During the 20 Years: 1871—1890.

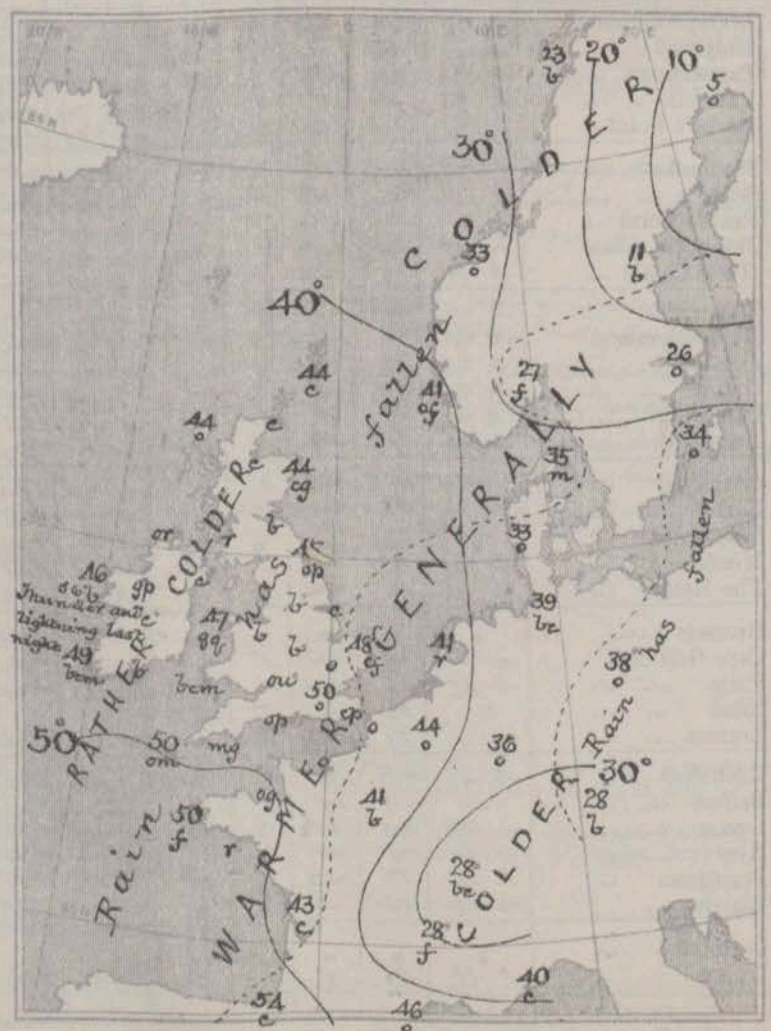
STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29·675
Stornoway	29·682
Wick	29·719
Nairn	29·745
Aberdeen	29·787
Leith	29·825
Shields	29·881
Spurn Head	29·926
York	29·932
Loughborough	29·967
Ardrossan	29·838
Mullaghmore	29·817
Donaghadee	29·856
Holyhead	29·902
Liverpool	29·874
Parsonstown	29·895
Valentia	29·687
Roche's Point	29·908
Pembroke	29·936
Scilly	29·969
Prawle Point	30·006
Jersey	30·012
Hurst Castle	30·002
Dover	30·012
LONDON	30·006
Oxford	29·909
Cambridge	29·993
Yarmouth	29·979

TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE.—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shown by Letters of the Beaufort Scale.

RAINFALL.—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.



MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of January.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	8 a.m. Dry.	8 a.m. Wet.	RAINFALL. (Inches)
Sumburgh Head	42·9	35·6	39·7	38·4	3·72
Stornoway	43·3	34·9	39·5	38·4	3·39
Wick	42·1	33·3	38·2	36·8	2·05
Nairn	42·2	32·9	37·2	35·4	1·99
Aberdeen	42·4	33·2	37·3	35·6	2·31
Leith	44·4	33·7	38·6	37·2	1·93
Shields	45·0	34·2	38·2	36·9	1·75
Spurn Head	41·7	34·5	37·7	36·7	1·35
York	42·7	32·5	36·7	35·7	1·87
Loughborough	43·0	31·3	36·4	35·4	2·04
Ardrossan	44·2	36·3	40·0	38·8	4·25
Mullaghmore	46·1	38·0	41·6	40·4	4·36
Donaghadee	44·4	36·1	40·0	39·2	2·98
Holyhead	45·0	38·7	41·7	40·3	3·38
Liverpool	43·5	35·2	38·6	37·0	2·22
Parsonstown	45·6	34·2	38·9	37·8	3·12
Valentia	49·5	40·4	44·5	43·5	6·69
Roche's Point	47·7	39·5	43·2	41·9	5·50
Pembroke	45·5	39·6	42·7	41·3	3·75
Scilly	48·8	43·0	46·4	44·9	3·73
Prawle Point	46·2	37·6	42·0	41·0	3·09
Jersey	45·8	38·3	41·8	40·4	3·21
Hurst Castle	45·0	36·3	40·3	39·5	2·94
Dover	43·5	35·8	39·2	38·1	2·58
LONDON	44·1	33·8	37·6	36·6	2·12
Oxford	43·1	33·0	37·1	36·1	2·26
Cambridge	43·3	31·7	36·2	35·4	1·54
Yarmouth	41·5	34·8	37·5	36·7	1·95

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30·4 ins. and upwards, in an anticyclone lying over Switzerland, the southeastern parts of France and the southern part of the Spanish Peninsula.
Lowest, 29·3 ins. and less, in a depression lying off the northwest of Scotland.
Gradients rather steep over our Islands and the North Sea, but slight elsewhere.
Barometer falling on our north and northeast coasts, as well as on the eastern shores of the North Sea; rising in most other localities.

TEMPERATURE

Highest, 54° at Biarritz, 53° at Lisbon, 51° at Orient, 50° at Scilly, Brest, Jersey, and in London, and 45° at Valencia Island, Oxford, and Cambridge.
Lowest, 5° at Haparanda, 18° at Thorshavn, 23° at Bodö, 26° at Stockholm, 27° at Lerwick, and 28° at Munich, Brefort and Lyons.
During yesterday the thermometer rose to 50° or a little above it in many parts of our Islands; at Loughborough the maximum was as high as 55°.

WIND

Moderate to strong from the SW.ly over the greater part of Western Europe, but E.ly in the west of Norway, and calm or variable in Sweden.
Moderate to strong gales from the S.ly have been experienced on some parts of our extreme north and northwest coasts.

WEATHER

Changeable and showery in most parts of the United Kingdom, and foggy at Yarmouth.
Cloudy at most of the Continental stations, with fog at Sarden, Brest, and Lyons.
Rain has fallen in nearly all parts of our Islands, the largest amount being 0·6 in. at Belmullet.
A solar halo was seen yesterday at Jersey, and a lunar halo at the North Foreland. Thunder occurred last night at Parsonstown, and lightning at Belmullet.

SEA

High at Pembroke and rough or rather so at several of our eastern stations, as well as at Stornoway and off the north of France.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression off the northwest of Scotland is moving northwards and the barometer is at present rising briskly in the extreme west. Conditions are, however, still favourable for the advance of disturbances from the Atlantic.

FORECASTS

For the 24 hours ending at NOON on 1st February 1893.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	S.ly winds, moderate or fresh; changeable, some showers.
1 SCOTLAND EAST	
2 ENGLAND N.E.	
3 ENGLAND EAST	SW.ly winds, fresh; changeable, some showers.
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	
6 SCOTLAND WEST	SW.ly winds, fresh or strong; gusty, showery.
7 ENGLAND N.W.	
8 ENGLAND S.W.	
9 IRELAND NORTH	SW.ly to S.ly winds, fresh or strong; fair to dull and some rain.
10 IRELAND SOUTH	
WARNINGS	The South Cone is still flying in districts 7.9.10. and parts of 0 and 8.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.81	55	55	d	6	of	5
Sumburgh Head	29.60	45	40	2	0	c	4
Stornoway	29.48	47	46	d bl	4	o	4
Aberdeen	29.71	44	40	d	2	og	4
Shields	29.80	51	48	d	2	c	2
Ardrossan	29.65	47	46	d bl	5	o	4
Malin Head ...	29.45	51	48	d	7	o	2
Mullaghmore ...	29.41	54	51	d	8	cgf	5
Belmullet	29.38	50	49	d	6	orq	*
Holyhead	29.76	48	47	d	5	omq	4

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29.49	52	51	d	5	c	5
Scilly	29.81	52	51	d	6	om	5
Jersey	30.12	49	47	d bl	4	cm	3
Hurst Castle ...	30.05	47	46	d bl	5	cm	4
Dungeness... ...	30.07	46	45	bl d bl	5	c	4
North Foreland...	30.06	45	46	bl d bl	4	o	3
London (Victoria St.)	30.04	52	48	d d bl	2	c	*
Yarmouth	29.97	49	47	bl d bl	2	bcm	3
Rochefort	30.26	45	44	d bl	4	f	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather in morning fine and bright on the southern side of the Mediterranean, as well as over Eastern Prussia, the Baltic Provinces, Holland, and the extreme east of England, foggy over the Netherlands generally and in some parts of France; cloudy or overcast and unsettled over the United Kingdom—especially in the west. Rain falling later in most parts of our Islands, Scandinavia, and the west of France, but amounts small except in a few localities.

Temperature changing irregularly, fallen decidedly over the Baltic Provinces, and slightly over England, risen over Central Europe and in Ireland. Morning readings 50° and more at stations on the southern and western shores of the Mediterranean, as well as in the west and south of Ireland and at Scilly; exceeding 40° over the United Kingdom generally, the greater part of France, and the whole of Italy. Lowest −9° at Hermanstadt, −5° at Cracow and Odessa, 0 Zero at Warsaw, +1° at Kiev, 4° at Moscow, 7° at Neustrelitz. Rising later to 50° or more in many parts of our Islands and France, and to 63° at Odessa.

Wind S to SW over western and northwestern Europe as a whole, and blowing strongly at several of the western stations; very light from SW over the Baltic, very light and variable elsewhere — but N over Italy and Tunis, SE over the Adriatic. Blowing a gale on our extreme northwest coasts later, and freshening considerably even over England.

Barometer highest 30·5 ins. and more to 30·1 ins. over southeastern, southwestern, and the greater part of Central Europe. Lowest 29·5 ins. and less, off our extreme west and southwest coasts. Gradients very variable but mainly favourable for SW to W winds over the northwestern and northern countries. Falling over the United Kingdom later, most in the west, rising over the Baltic, Germany and France — but changes very moderate.

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 made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. The time at each Station is the Standard Time of its Country.

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ADDITIONS AND CORRECTIONS TO THE

1. REPORTS RECEIVED TOO LATE FOR INSERTION DAILY.

		YESTERDAY EVENING.					8 A.M. TO DAY.									PAST 24 HOURS			
		BAROM.	TEMP.	WIND.			BAROMETER.		SHADE TEMP.			WIND.					SHADE TEMP.		
DATE.	STATIONS.	Reading at 32° F. and Sea Level.	Dry Bulb.	Direc.	Force (0 to 12).	Weather.	Reading at 32° F. and Sea Level.	Change since Yesterday Morn.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.	Direc.	Force (0 to 12).	Weather.	Sea (0 to 9).	Weather.	Max.	Min.	Amount of Rainfall.
2	Corunna	*	*	*	*	*	29.88	–	50	47	–	NW	4	r	4	*	50	39	0.12
3	The Helder	29.91	29	NNE	5	s	30.10	+.24	13	–	– 13	SSE	1	c	1	s	?	?	–
"	Corunna	*	*	*	*	*	30.11	+.23	41	37	– 9	ENE	4	bc	2	*	54	36	0.08
4	Corunna	*	*	*	*	*	30.15	+.04	36	36	– 5	ESE	4	b	0	*	52	34	–
5	Corunna	*	*	*	*	*	30.12	–.03	43	40	+ 7	SE	2	m	1	*	50	36	–
6	Corunna	*	*	*	*	*	29.90	–.22	49	44	+ 6	ESE	4	o	1	*	55	41	–
7	Corunna	*	*	*	*	*	29.53	–.37	49	46	0	ESE	6	r	4	*	55	45	0.12
9	Corunna	*	*	*	*	*	29.69	?	51	49	?	SSW	4	r	2	*	55	46	0.36
–	Lisbon	29.55	53	NSW	2	b	29.71	+.33	49	48	– 8	N	2	c	*	b	61	48	0.43
10	Corunna	*	*	*	*	*	29.82	+.13	44	42	– 7	SE	4	b	1	*	54	39	–
11	Corunna	*	*	*	*	*	29.73	–.09	50	46	+ 6	S	1	o	2	*	54	44	–
12	Corunna	*	*	*	*	*	29.73	.00	45	40	– 5	ENE	7	c	3	*	54	37	–
13	Corunna	*	*	*	*	*	30.04	+.31	44	36	– 1	ENE	6	b	2	*	50	30	–
14	Corunna	*	*	*	*	*	30.15	+.11	34	33	– 10	SE	3	m	2	*	50	32	–
15	Perpignan	29.88	43	NW	2	c	29.53	–.53	41	–	+ 6	NW	3	c	*	c	48	34	–
16	Belfort	?	13	E	4	o	?	?	5	–	– 26	E	4	c	*	o	31	1	0.12
–	Corunna	*	*	*	*	*	30.30	+.13	43	39	– 1	S	2	r	3	*	48	37	0.04
17	Corunna	*	*	*	*	*	30.15	–.15	51	49	+ 8	N	7	o	4	*	55	36	0.04
18	Lyons	30.00	3	E	1	b	30.17	+.33	0	–	+ 1	N	3	b	*	b	8	–1	–
–	Corunna	*	*	*	*	*	30.43	+.28	49	46	– 2	NE	5	bc	4	*	54	37	–
19	Corunna	*	*	*	*	*	30.48	+.05	54	47	+ 5	NE	4	o	3	*	54	48	–
20	Corunna	*	*	*	*	*	30.52	+.04	46	43	– 8	SE	4	bc	3	*	55	43	–
21	Lyons	30.52	14	NW	1	b	30.52	+.02	18	–	+ 14	S	1	o	*	b	?	4	–
–	Corunna	*	*	*	*	*	30.51	–.01	49	46	+ 3	NE	4	b	1	*	55	45	–
23	Corunna	*	*	*	*	*	30.49	–.11	41	39	– 9	SE	3	b	2	*	54	36	–
24	Belfort	?	35	W	4	r	?	?	37	–	+ 14	W	3	o	*	r	36	23	0.16
–	Nice	29.78	38	Z	0	c	29.99	+.04	37	–	+ 4	E	2	c	3	c	45	32	–
"	Corunna	*	*	*	*	*	30.44	–.05	41	–	0	E	3	bc	2	*	54	36	–
25	Belfort	?	34	W	3	r	?	?	37	–	0	W	3	bc	*	c	38	32	0.08
"	Corunna	*	*	*	*	*	30.21	–.23	39	37	– 2	SE	4	b	1	*	52	36	–
26	Belfort	?	36	W	1	m	?	?	33	–	– 4	W	3	o	*	m	42	21	–
–	Nice	30.11	44	Z	0	b	30.15	.00	44	–	+ 1	ENE	3	o	2	b	54	39	–
"	Corunna	*	*	*	*	*	30.08	–.13	48	41	+ 9	NSW	5	o	2	*	54	37	–
27	Belfort	?	33	NE	2	o	?	?	30	–	– 3	W	2	o	*	o	41	28	–
–	Corunna	*	*	*	*	*	30.00	–.08	46	41	– 2	SSE	5	o	2	*	57	43	–
28	Corunna	*	*	*	*	*	29.86	–.14	53	49	+ 7	SSW	6	o	3	*	57	46	0.32
30	Corunna	*	*	*	*	*	30.11	+.08	58	53	+ 2	SSW	6	o	2	*	59	37	–
31	Corunna	*	*	*	*	*	30.18	+.07	57	–	– 1	S	7	o	6	*	61	39	–

REPORTS FOR JANY 1893.

2. CORRECTIONS.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Reading at 32° F. and Sea Level.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F. and Sea Level.	Barometer. Change since Yesterday Morn.	Shade Temp. Dry Bulb.	Shade Temp. Wet Bulb.	Shade Temp. Change in dry since Yesterday.	Wind. Direc.	Wind. Force (0 to 12).	Weather.	Sea (0 to 9).	PAST 24 HOURS Weather.	Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
1	Malin Head	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	33	-
"	Jersey	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38	-	-
-	North Foreland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	-	-
-	Skagen	30·21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
"	Hurst Castle	-	-	-	-	-	30·03	+·14	-	-	-	-	-	-	-	-	-	-	-
3	Wick	?30·00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
"	Scilly	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38	-	-
4	Jersey	-	-	-	-	-	-	-	29	-	-	-	-	-	-	-	-	-	-
5	Aberdeen	-	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
"	Belmullet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0·10
-	London	-	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	Belmullet	-	-	-	-	-	29·97	-·15	-	-	-	-	-	-	-	-	-	-	-
"	Prawle Point	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	42	-	-
"	Hurst Castle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36	-	-
-	North Foreland	-	-	-	-	-	30·18	-	-	-	-	-	-	-	-	-	-	-	-
8	Prawle Point 2pm.	-	-	-	-	-	29·52	-·22	-	-	-	-	-	-	-	-	-	-	-
9	Dungeness	-	-	-	-	-	-	-	-	39	-	-	-	-	-	-	-	-	-
"	Jersey 2pm	-	-	-	-	-	-	-	44	-	-	-	-	-	-	-	-	-	-
"	Hurst Castle 2pm	-	-	-	-	-	29·71	-	-	-	-	-	-	-	-	-	-	-	-
10	Jersey	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44	-	-
11	Spurn Head	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-
12	Aberdeen	-	-	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	Stornoway	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44	-	-
14	Jersey	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0·02
16	Wiesbaden	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	?	-	-
17	Cambridge	?29·59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
"	Mullaghmore 2pm	-	-	-	-	-	30·14	-	-	-	-	-	-	-	-	-	-	-	-
18	Prawle Point	-	39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Belmullet 2pm	-	-	-	-	-	-	-	49	-	-	-	-	-	-	-	-	-	-
19	York	-	-	-	-	-	?30·34	+·30	-	-	-	-	-	-	-	-	-	-	-
"	Roche's Point	30·49	-	-	-	-	30·49	-	-	-	-	-	-	-	-	-	-	-	-
21	Nairn	-	-	NW	-	-	-	-	-	-	-	NW	-	-	-	-	-	-	-
22	Valencia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0·11
"	Malin Hd. 2pm	-	-	-	-	-	-	-	47	-	-	-	-	-	-	-	-	-	-
23	Malin Hd	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	47	-	-
24	Aberdeen	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	46	-
25	Roche's Point	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51	-	-
"	Pembroke	-	-	-	-	-	-	-	40	-	-4	-	-	-	-	-	-	-	-
26	Holyhead	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0·11
"	Scilly	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0·11
-	Hurst Castle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0·01
30	Prawle Point	29·78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	Holyhead	-	-	-	-	-	-	-	-	-	-	-	-	6pm	-	-	-	-	-