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METEOROLOGICAL OFFICE.

DAILY WEATHER REPORTS.

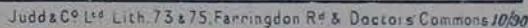
1ST JANUARY—30TH JUNE,

1891.

Soc. Reg. Lond.

26.4.92

January to June 1891.



DAILY WEATHER REPORT.

for *Friday, 1st May, 1891.*
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 5.)	SHADE TEMP.		Amount of Rainfall.	
	Reading at 32° F. and Sea Level.	Dry.	Direc.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...	29.24	35	S	2	0	29.23	- 0.3	35	35	- 1	Z	0	S	*	41	34	0.82
	Hernösand ...	29.39	40	Z	0	0	29.48	+ 1.3	43	37	+ 2	Z	0	0	*	50	36	-
	Stockholm ...	29.55	40	SW	2	0	29.69	+ 1.9	46	40	+ 2	SW	2	0	*	48	34	-
	Wisby ...	29.63	38	N	4	0	29.77	+ 1.9	43	42	- 1	SSW	4	0	*	54	36	0.20
	Bodö ...	29.30	36	SW	6	1	29.28	+ 0.1	39	39	- 2	SW	4	0	2	41	34	0.47
	Christiansund	29.32	44	SW	5	0	29.34	- 0.2	44	41	+ 4	N	3	0	3	46	37	0.08
	Skudesnaes ...	29.57	42	S	6	0	29.46	- 0.1	45	42	+ 5	SE	4	0	4	47	40	-
	Christiania Fjord (Færd)	29.58	43	WSW	3	0	29.58	+ 1.3	43	40	+ 3	WSW	5	0	3	45	40	-
	Skagen (The Seaw)	29.62	43	SW	1	0	29.61	+ 1.8	42	41	+ 3	SE	1	m	0	50	39	-
	Fanö ...	29.67	45	WSW	4	f	29.67	+ 2.2	48	47	+ 3	SW	4	c	*	50	45	0.16
BRITISH ISLANDS.	Sumburgh Head	29.36	44	N	3	0	29.32	- 0.2	43	41	- 1	NE	1	0	2	49	39	0.03
	Stornoway ...	29.42	47	N	4	bc	29.23	- 0.6	43	42	- 4	NE	2	0	2	50	37	-
	Wick ...	29.44	44	NW	2	0	29.22	- 1.3	42	40	- 3	ESE	4	0	3	53	40	0.22
	Nairn ...	29.41	55	Z	0	0	29.20	- 1.4	43	42	- 6	E	1	0	1	60	42	0.08
	Aberdeen ...	29.45	50	NE	3	0	29.24	- 1.7	49	47	- 1	SSE	3	0	2	60	43	0.04
	Leith ...	29.45	57	N	1	0	29.23	- 2.3	51	49	+ 2	SSW	2	1	*	61	47	0.07
	Shields ...	29.49	49	S	1	0	29.33	- 1.5	53	51	+ 4	S	2	0	2	57	47	-
	Spurn Head ...	29.58	58	SSW	5	0	29.48	- 0.6	53	51	+ 1	SSW	5	0	4	61	51	0.01
	York ...	29.56	57	N	1	0	29.41	- 1.0	54	52	+ 3	S	3	0	*	60	48	0.43
	Loughborough	29.64	57	SW	3	0	29.49	- 0.9	53	51	+ 1	SSW	4	0	*	65	52	0.05
GERMANY & HOLLAND.	Ardrossan ...	29.45	48	S	2	0	29.20	- 2.5	48	45	+ 1	SSW	2	1	2	52	46	0.50
	Malin Head ...	29.40	45	SE	3	or	29.18	- 2.4	47	47	+ 0	WSW	1	0	1	51	44	0.01
	Mullaghmore ...	29.48	54	SSW	4	cp	29.18	- 2.9	50	48	+ 1	SSW	4	0	3	55	48	0.05
	Belmullet ...	29.35	52	SSW	4	0	29.17	- 2.9	49	49	+ 0	SW	1	0	*	53	48	0.15
	Donaghadee ...	29.46	48	SW	4	0	29.21	- 2.9	50	50	- 1	SW	3	0	1	58	49	0.07
	Liverpool (Bidston)	29.57	58	SSW	4	0	29.37	- 1.7	52	51	+ 2	S	2	0	2	60	50	0.10
	Holyhead ...	29.53	49	SSW	4	f	29.33	- 2.1	49	48	+ 0	SSW	5	0	4	53	48	0.29
	Parsonstown ...	29.44	58	SW	1	0	29.24	- 2.6	53	50	+ 3	SW	2	0	*	63	48	0.30
	Valencia ...	29.42	54	SSW	4	cm	29.25	- 2.4	50	48	- 4	SW	3	0	4	56	48	0.46
	Roche's Point...	29.52	51	SW	4	f	29.39	- 2.0	48	48	- 3	SW	3	0	4	55	47	0.40
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.60	48	SSW	4	f	29.37	- 2.2	48	47	+ 0	SSW	4	0	5	50	47	0.40
	Scilly ...	29.69	53	SSW	6	m	29.45	- 2.5	53	52	+ 1	SSW	6	0	5	56	50	0.82
	Prawle Point ...	29.78	49	WSW	8	0	29.56	- 1.9	49	49	+ 0	SSW	5	0	4	51	47	0.02
	Jersey (St. Aubin's)	29.90	57	SSW	3	0	29.72	- 1.4	54	52	+ 0	S	3	0	3	60	51	-
	Hurst Castle ...	29.82	51	WSW	6	0	29.63	- 1.3	53	52	+ 4	SSW	7	0	4	53	48	-
	Dungeness ...	29.81	51	WSW	5	0	29.72	- 0.3	49	49	+ 1	SW	5	0	4	53	47	-
	London ...	29.77	59	SSW	5	0	29.63	- 0.5	54	52	- 1	SW	4	0	*	64	51	-
	Oxford ...	29.74	54	SSW	5	0	29.56	- 0.9	53	51	- 3	S	3	0	*	62	52	0.03
	Cambridge ...	29.70	59	SW	3	0	29.57	- 0.7	56	53	+ 1	S	3	0	*	67	53	-
	Yarmouth ...	29.68	61	WSW	5	bc	29.63	+ 0.2	56	52	+ 4	SW	5	0	4	63	49	-
PENINSULA.	Cuxhaven ...	29.57	50	WSW	4	T	29.80	+ 1.9	53	52	+ 4	SW	4	0	*	55	49	0.28
	Berlin ...	29.85	58	Z	0	0	29.95	+ 1.7	60	56	+ 12	N	3	0	*	63	50	0.04
	Wiesbaden ...	*	*	*	*	*	29.97	+ 0.5	59	54	+ 7	Z	0	0	*	72	50	-
	Munich ...	30.11	57	SW	4	0	30.11	+ 0.2	57	52	+ 5	?	2	0	*	66	43	-
	The Helder ...	29.76	48	SW	4	0	29.74	+ 1.1	53	52	+ 7	SSW	3	0	3	54	46	0.08
	Brussels (9 a.m.)	*	*	*	*	*	29.75	+ 0.1	54	53	+ 4	SW	5	0	5	57	48	-
	Cape Gris Nez	29.83	51	SW	5	0	29.75	+ 0.1	54	53	+ 4	SW	5	0	5	57	48	-
	Paris ...	29.99	64	SW	2	0	29.89	- 0.7	57	55	+ 3	SW	1	0	*	64	50	-
	Brest ...	29.91	53	S	4	0	29.73	- 1.5	53	51	+ 0	WSW	6	0	0	54	48	0.04
	Lorient ...	29.91	53	SSW	3	0	29.77	- 1.5	54	53	+ 3	SSW	4	0	5	57	51	0.04
FRANCE AND BELGIUM.	Rochefort ...	29.93	62	N	1	0	29.78	- 2.1	57	54	+ 2	SE	3	0	*	68	37	-
	Belfort ...	?	64	N	2	bc	?	?	59	?	+ 2	N	2	0	*	73	43	-
	Lyons ...	30.01	68	S	3	bc	30.03	- 0.6	63	54	+ 10	S	4	0	*	75	53	-
	Nice ...	30.12	57	SE	1	0	30.20	+ 0.9	60	53	+ 8	ENE	1	0	0	68	52	-
	Perpignan ...	30.09	61	E	3	0	30.08	- 0.2	54	54	- 3	NE	2	0	*	70	52	-
	Biarritz ...	29.97	62	SW	3	0	29.89	- 1.7	54	56	+ 11	S	5	0	2	72	55	-
	Corunna ...	*	*	*	*	*	30.05	- 0.1	59	55	- 1	NE	2	0	5	72	56	-

For Explanation of Columns, see bottom of p. 4.

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

WEATHER CHARTS

for 8 a.m. on Friday, 1st May, 1891.

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.

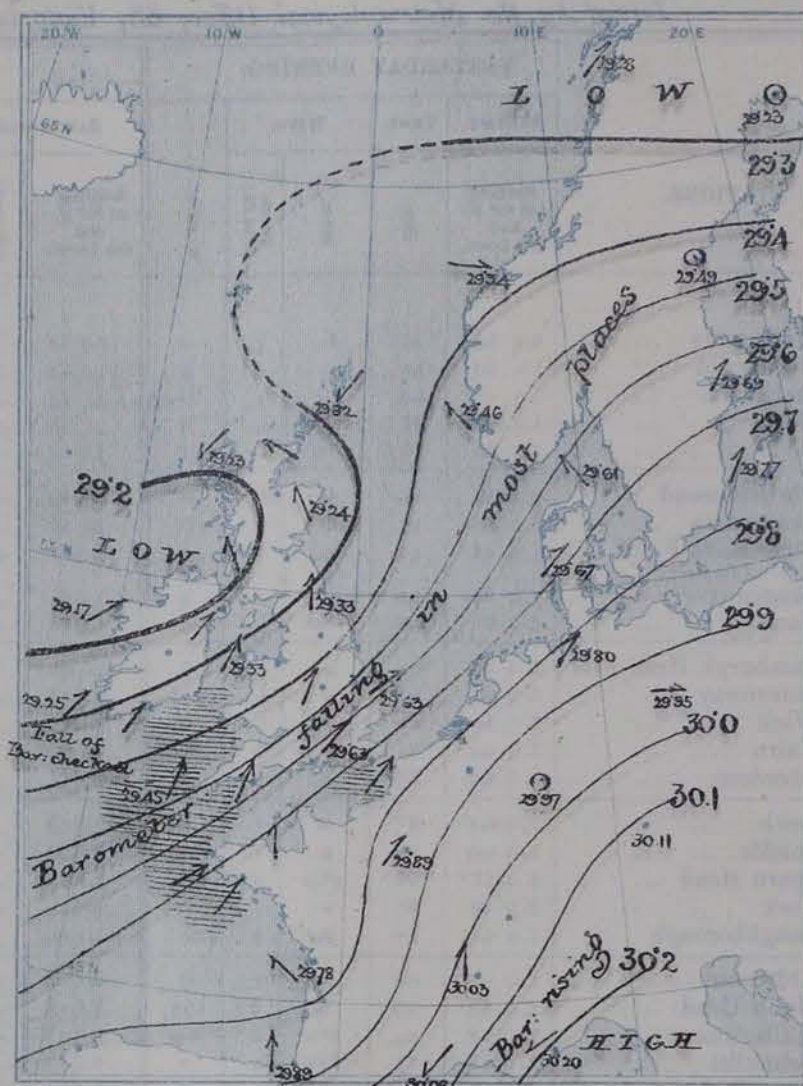
SEA DISTURBANCE—Where considerable, is shown thus:

— Rough. — High.

MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.879
Stornoway	29.886
Wick	29.901
Nairn	29.908
Aberdeen	29.918
Leith	29.932
Shields	29.943
Spurn Head	29.956
York	29.962
Loughborough	29.973
Ardrossan	29.935
Mullaghmore	29.929
Donaghadee	29.917
Holyhead	29.956
Liverpool	29.961
Parsonstown	29.958
Valencia	29.963
Roche's Point	29.959
Pembroke	29.961
Scilly	29.974
Prawle Point	29.992
Jersey	29.989
Hurst Castle	29.982
Dover	29.970
LONDON	29.981
Oxford	29.981
Cambridge	29.976
Yarmouth	29.967



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 May.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	50.3	40.2	46.1	44.6	1.72
Stornoway	53.3	41.1	48.6	46.4	2.61
Wick	53.9	40.6	48.1	45.6	1.69
Nairn	56.3	42.2	48.6	45.4	1.61
Aberdeen	55.0	41.9	48.9	45.4	1.99
Leith	57.8	42.1	50.1	45.7	1.67
Shields	54.4	42.9	49.0	46.0	1.69
Spurn Head.....	54.3	45.1	49.3	47.2	1.57
York	59.6	42.2	49.8	46.7	1.85
Loughborough	61.7	42.6	51.1	47.7	2.09
Ardrossan	56.5	43.9	49.5	46.7	2.31
Mullaghmore	56.7	45.3	50.2	47.4	2.42
Donaghadee	56.0	44.2	49.6	47.5	2.28
Holyhead	56.2	46.2	50.5	48.0	1.90
Liverpool	58.0	45.0	50.8	46.9	1.84
Parsonstown	59.5	42.7	51.0	47.8	2.24
Valencia	58.1	46.3	52.8	49.7	3.20
Roche's Point	58.9	46.2	51.7	48.8	3.14
Pembroke.....	55.0	45.9	49.9	47.7	2.03
Scilly	56.3	48.2	52.7	50.3	1.73
Prawle Point	56.6	45.3	51.4	49.4	1.56
Jersey	59.4	47.2	53.6	50.5	1.87
Hurst Castle	58.6	45.7	51.6	49.9	1.78
Dover	57.0	46.7	52.5	49.3	1.79
LONDON	62.3	44.4	52.6	48.5	1.86
Oxford	60.6	43.4	50.6	47.5	1.95
Cambridge	62.0	42.0	51.7	48.5	1.90
Yarmouth	55.4	44.9	50.6	48.1	1.86

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 29.9 ins. over the Gulf of Genoa and southeastern half of France.
 Lowest, 29.3 ins. and less over Lapland; 29.2 ins. and less over the northwest of Ireland and west of Scotland.
 Gradient slight in the extreme north and northwest, somewhat steep over the British Isles and Channel, moderate over France.
 Barometer falling in most places, but at Taleneia Island the fall is checked.

TEMPERATURE

Highest, 70° at Biarritz, 60° at Nice, 57° at Paris and Rochefort, 56° at Cambridge, 54° in London.
 Lowest, (1) 35° at Haparanda, 33° at Umeå, 43° at Hinnosand; (2) 42° at Wick, 43° at Sumburgh H., Stromsø, and Naime.
 The night has been mild all over the Kingdom (excepting the extreme north of Scotland), and during yesterday maxima were recorded as high as 60° to 61° in the north of England and east of Scotland, 64° in London and at Paris, 67° at Cambridge.

WIND

Moderate S² to SE³ over France, fresh to strong SW³ over the Channel and greater part of England, light SW² in Ireland, and light SE² to E² over the northern half of Scotland.
 It has reached the force of a moderate gale at times on some parts of our south and southwest coasts during the past 24 hours.

WEATHER

Fine and bright over France and Sweden, dull over the United Kingdom generally, with occasional falls of rain.
 The rainfall measured this morning has been greater over the eastern and northern districts than elsewhere.

SEA

Rather rough on some parts of our southwest and south coasts, moderate in the west, slight or smooth in the northeast and north.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The distribution of pressure is still favourable for a general prevalence of SW³ winds. Depressions continue to move northwards over our extreme western districts, and that now found over the northwest of Ireland and west of Scotland is of much greater intensity, and lies more completely over our northwestern districts than those recently experienced. A small secondary system is found over the Bay of Biscay. As it moves northwards some recovery of pressure is likely to occur in the southwest, and a moderating in the strength of the SW³ winds over England and the Channel.

FORECASTS

For the 24 hours ending at NOON on 2nd May 1891.

DISTRICTS.

FORECASTS.

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

Varying winds, rain at times.
 S² and SW² winds, some rain, mild.
 S² and SW² winds, fresh, grassy, some rain, mild.

DISTRICTS.

FORECASTS.

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

S² and SW² winds, fresh to moderate; showery.
 SW² winds, moderate; showery.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND		WEA.	SEA		BAR.	THER.		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.55	47	41	S	4	C	3		Holyhead ...	29.55	50	49	SSW	3	2
Sumburgh Head ...	29.37	47	45	SSW	1	O	3		Valencia ...	29.48	55	53	S	6	5
Stornoway ...	29.41	48	45	W	4	6	4		Scilly ...	29.72	55	54	SSW	6	5
Aberdeen ...	29.42	54	48	SSW	3	6c	2		Jersey ...	29.89	59	55	SW	4	3
Shields ...	29.32	50	47	ESE	2	C	2		Dungeness ...	29.80	52	51	SSW	5	4
Ardrossan ...	29.45	50	48	SSW	2	O	1		London ...	29.74	62	58	SW	5	3
Malin Head ...	29.45	40	47	ESE	1	O	2		Yarmouth ...	29.67	61	56	SSW	4	3
Mullaghmore ...	29.39	51	48	NW	1	om	3		Rochefort ...	29.95	64	59	W	3	3
Belmullet ...	29.43	51	49	N	1	T	*								

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

Weather in morning fine and bright over the greater part of Spain and the Mediterranean, as well as in the east of Scotland and west of Norway, cloudy or overcast elsewhere, with rain over Lapland, Finland, and northern Russia, as well as over north Germany, and the Netherlands, and at several of the southern and western stations in the British Isles. Considerable rain over the western and northern parts of the Kingdom later, and in some parts of Scandinavia, and smaller quantities on our northeast coast, and in the west of France.

Temperature increasing generally over western Europe, decreasing at several eastern stations. Morning readings ranging from 52° to 66° over the Mediterranean and southern Europe generally, exceeding 50° in many parts of our Islands, France, and the Netherlands, as well as over Central Russia. Lowest, 36° at Haparanda, 37° at Archangel, 39° at Hango and the Scaur, 40° in the west of Norway. Rising to 70° and more in the south and southwest of France later, to 67° at Cambridge, 65° at Rungby, 64° in London and at Paris. Succeeding night mild generally.

Wind very variable over southern, southeastern and eastern Europe, mainly SW in the west and north; blowing strongly in the England Channel, and over the Netherlands and Holstein, lightly, over the northwestern half of the British Islands and in Norway. Increasing from the SW on our western coasts later, and continuing rather strong in the English Channel.

Barometer highest, 30.1 ins. and more, over Algeria, the Mediterranean and southern Europe. Lowest, 29.3 ins. and less, over the northern half of Scandinavia and off our extreme northwest coasts, and as low as 29.5 ins. and less, in a small depression off the west of Ireland and another over Denmark, 29.8 ins. and less, in a third over western Russia, and 29.9 ins. and less, in a fourth lying to the southward of Malta. New disturbances approaching Ireland 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.

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

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

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

“ Weekly “ “ “ “ £1 10 0 “

DAILY WEATHER REPORT.

for *Saturday, 2nd May, 1891.*
 Issued by the Meteorological Office, 63, Victoria Street, London. *R. H. SCOTT, Secretary.*

STATIONS.		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		BAROM.	TEMP.	WIND.			BAROMETER.		SHADE TEMP.			WIND.				SHADE TEMP.			
				Reading at 32° F. and Sea Level.	Dry.		Dirce.	Force. (0 to 12.)	Weather.	Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.			Difference from 8 a.m. yesterday.	Dirce.		Force. (0 to 12.)	Weather.	Sea. (0 to 9.)	Max.	Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ...	29.41	33	Z	0	c	29.32	+0.9	39	37	+4	ESE	2	c	*	43	32	0.03	
	Hernösand ...	29.40	46	SW	4	c	29.99	-1.49	42	42	-1	Z	0	f	*	50	32	0.12	
	Stockholm ...	29.37	46	S	2	o	29.28	-1.41	54	48	+8	WSW	6	c	*	55	32	0.12	
	Wisby ...	29.67	47	SSW	4	T	29.48	-1.29	54	51	+3	WSW	4	b	*	54	34	0.12	
	Bodö ...	29.31	41	Z	0	bc	29.15	-1.16	42	38	+4	E	4	o	2	?	36	-	
	Christiansund	29.25	44	WSW	3	o	29.11	-1.23	44	42	0	NHE	3	x	3	45	41	0.12	
	Skudesnaes ...	29.11	44	SSW	6	T	29.17	-1.29	44	44	-1	NW	4	T	5	45	41	0.67	
	Christiania Fjord (Færdø)	29.32	45	S	3	o	?	-?	45	44	+2	SSW	7	c	5	45	43	0.24	
	Skagen (The Scaw)	29.38	46	SW	5	o	29.37	-1.24	49	46	+3	WSW	7	c	4	50	43	0.16	
	Fanö ...	29.49	48	WSW	6	b	29.56	-1.11	50	47	+3	WSW	6	b	*	55	45	0.16	
BRITISH ISLANDS.	Sumburgh Head	29.13	42	NE	3	o	29.35	+0.3	45	42	+3	NNW	2	bc	2	45	37	-	
	Stornoway ...	29.21	43	NE	5	T	29.52	+1.29	43	42	0	NW	5	T	5	45	38	0.02	
	Wick ...	29.15	41	E	3	T	29.43	+1.21	44	42	+2	N	3	bc	2	44	37	0.27	
	Nairn ...	29.16	42	ESE	1	T	29.47	+1.27	40	40	-3	NW	1	T	2	43	39	0.74	
	Aberdeen ...	29.09	48	NNW	3	c	29.47	+1.23	42	40	-2	NW	2	OT	3	51	41	0.14	
	Leith ...	29.11	52	WPN	2	o	29.42	+1.19	44	42	-2	N	1	Tm	*	58	41	0.24	
	Shields ...	29.18	53	WPN	4	bc	29.45	+1.12	48	43	-5	SW	4	c	2	58	42	0.02	
	Spurn Head ...	29.35	52	SW	5	bc	29.56	+1.04	50	46	-4	W	4	b	4	56	45	0.15	
	York ...	29.29	52	SW	3	bc	29.55	+1.14	49	44	-5	W	4	bc	*	58	41	0.08	
	Loughborough	29.40	53	WPN	5	c	29.61	+1.12	50	46	-4	W	2	c	*	58	46	0.22	
BRITISH ISLANDS.	Ardrossan ...	29.13	48	W	3	o	29.50	+1.30	42	41	-1	NNW	3	T	1	49	39	0.28	
	Malin Head ...	29.20	45	NW	4	o	29.58	+1.40	44	40	-4	NNW	5	og p	3	47	41	0.13	
	Mullaghmore ...	29.32	47	NW	5	c	29.68	+1.50	44	42	-2	W	4	c	2	57	40	0.22	
	Belmullet ...	29.39	48	NNW	4	b	29.72	+1.55	44	43	-1	N	3	og p	3	49	40	0.34	
	Donaghadee ...	29.23	46	NNE	4	T	29.58	+1.37	45	43	-2	NNW	5	b	3	56	44	0.46	
	Liverpool (Bidston)	29.34	52	SW	4	o	29.61	+1.24	45	42	-3	W	5	bc	4	57	43	0.11	
	Holyhead ...	29.29	48	SW	5	bc	29.62	+1.29	45	44	-1	NW	4	c	4	52	42	0.01	
	Parsonstown ...	29.36	48	NW	1	o	29.70	+1.46	45	43	-2	Z	0	c	*	53	37	0.04	
	Valencia ...	29.49	50	NNW	3	c	29.79	+1.54	48	43	-5	N	4	c	4	55	45	0.02	
	Roche's Point...	29.42	50	NNW	5	bc	29.70	+1.37	47	43	-4	NW	4	b	4	56	40	0.10	
BRITISH ISLANDS.	Pembroke (St. Ann's Hd.)	29.43	49	SW	5	b	29.66	+1.29	47	44	-3	NW	3	b	3	50	44	0.04	
	Scilly ...	29.58	52	SW	5	c	29.67	+1.22	48	45	-3	NNW	5	c	5	53	45	0.08	
	Prawle Point ...	29.62	49	SW	5	c	29.63	+1.07	49	48	-1	SW	3	c	2	52	46	0.29	
	Jersey (St. Aubin's)	29.73	54	WPN	4	bc	29.72	+1.00	50	52	+2	SE	4	og m	3	60	57	0.06	
	Hurst Castle ...	29.62	57	SW	3	bc	29.67	+1.04	49	49	0	SW	5	Tm	4	62	48	0.31	
	Dungeness ...	29.61	52	SW	6	c	29.71	+1.01	49	48	-1	SW	2	T	3	55	48	0.09	
	London ...	29.56	53	SW	5	bc	29.67	+1.04	51	48	-3	SW	2	OT	*	59	46	0.17	
	Oxford ...	29.55	52	S	5	c	29.64	+1.08	51	49	-2	SW	3	c	*	59	48	0.10	
	Cambridge ...	29.48	56	S	4	c	29.64	+1.07	53	49	-4	SW	2	c	*	60	44	0.10	
	Yarmouth ...	29.47	58	WPN	6	c	29.62	+1.01	52	49	-3	WPN	4	bc	3	59	47	0.05	
GERMANY & HOLLAND.	Cuxhaven ...	29.65	54	SW	4	bc	29.70	+1.10	52	50	-2	SW	5	b	*	61	50	-	
	Berlin ...	29.73	69	S	4	c	29.84	+1.11	62	56	+6	W	2	bc	*	75	59	-	
	Wiesbaden ...	*	*	*	*	*	29.88	+1.09	61	57	+4	Z	0	c	*	77	59	-	
	Munich ...	29.97	65	Z	0	c	30.01	+1.10	62	55	+7	SE	2	b	*	73	50	-	
	The Helder ...	29.60	50	SW	4	b	29.75	+1.01	49	48	-1	SW	3	bc	3	59	46	0.08	
	Brussels (S.A.T.)	*	*	*	*	*	29.81	+1.00	52	49	-3	SW	4	o	*	68	49	-	
	Cape Gris Nez	29.67	52	W	6	b	29.72	+1.03	50	48	-2	SW	5	o	5	59	46	0.04	
	Paris ...	29.81	68	SW	4	c	29.87	+1.02	50	49	-1	SW	3	T	*	70	50	0.04	
	Brest ...	29.76	55	WPN	4	bc	29.73	+1.00	51	50	-1	SW	4	c	7	55	48	0.08	
	Lorient ...	29.82	54	SW	5	c	29.77	+1.00	53	51	-2	SW	4	T	6	57	52	-	
FRANCE AND BELGIUM.	Rocheport ...	29.87	59	WPN	3	o	29.88	+1.10	52	52	0	W	3	T	*	63	43	0.08	
	Belfort ...	?	68	SW	3	bc	?	?	64	?	+5	SW	4	b	*	80	47	-	
	Lyons ...	29.94	68	SW	5	c	29.91	+1.12	65	61	+4	SW	5	c	*	73	55	-	
	Nice ...	30.12	62	SW	2	b	30.07	+1.13	63	54	+9	ESE	1	b	2	70	50	-	
	Perpignan ...	29.98	64	N	2	o	29.95	+1.13	58	53	+5	NW	2	o	3	75	47	-	
	Biarritz ...	29.98	59	W	4	o	29.92	+1.03	58	56	-2	NNE	3	o	3	81	52	-	
	Corunna ...	30.02	*	NNW	*	*	30.05	+1.00	59	56	+3	NNW	3	c	3	70	57	-	
	Lisbon ...	30.02	60	NNW	4	c	30.05	+1.00	59	56	+3	NNW	3	c	3	70	57	-	
	Porto ...	30.02	60	NNW	4	c	30.05	+1.00	59	56	+3	NNW	3	c	3	70	57	-	
	Madrid ...	30.02	60	NNW	4	c	30.05	+1.00	59	56	+3	NNW	3	c	3	70	57	-	

For Explanation of Columns, see bottom of p. 1.

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

WEATHER CHARTS

for 8 a.m. on Saturday, 2nd May, 1891.

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.

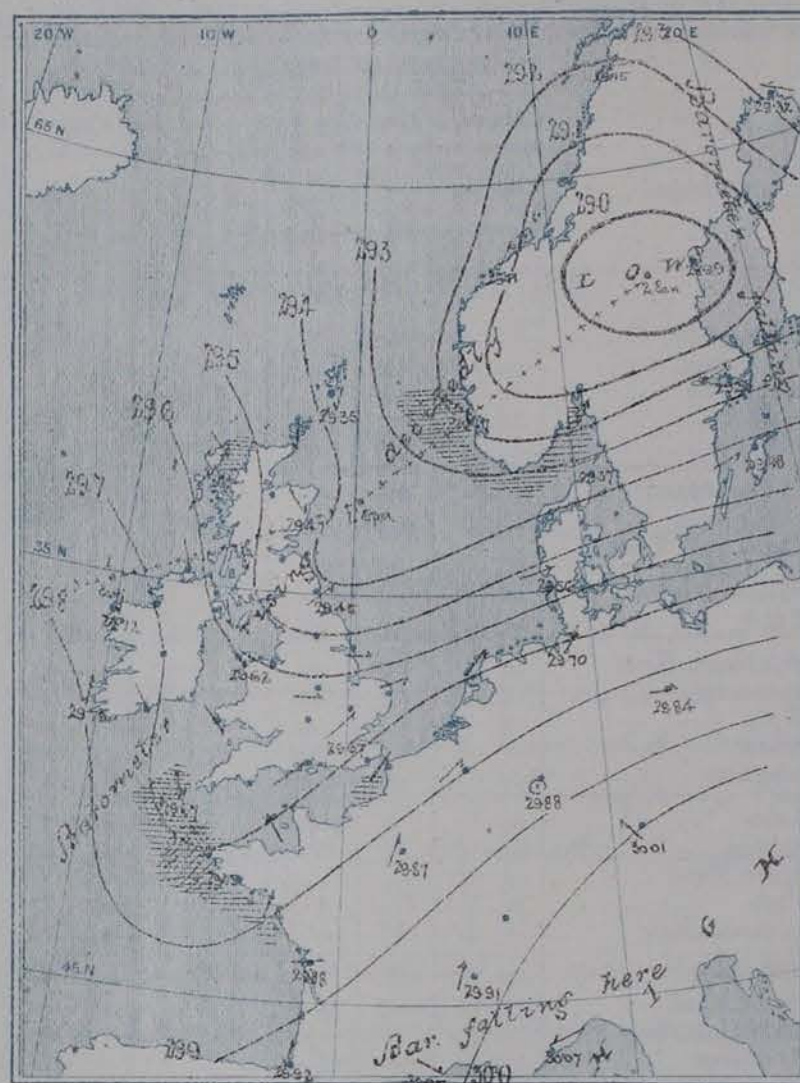
SEA DISTURBANCE—Where considerable, is shewn thus:

▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.879
Stornoway	29.886
Wick	29.901
Nairn	29.908
Aberdeen	29.918
Leith	29.932
Shields	29.943
Spurn Head	29.956
York	29.962
Loughborough	29.973
Ardrossan	29.935
Mullaghmore	29.929
Donaghadee	29.947
Holyhead	29.956
Liverpool	29.961
Parsonstown	29.958
Valencia	29.963
Roche's Point	29.959
Pembroke	29.961
Scilly	29.974
Prawle Point	29.992
Jersey	29.989
Hurst Castle	29.982
Dover	29.970
LONDON	29.981
Oxford	29.981
Cambridge	29.976
Yarmouth	29.967



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 May.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Dry.	Wet.	
Sumburgh Head	50.3	40.2	46.1	44.0	1.72
Stornoway	53.3	41.1	48.6	46.4	2.61
Wick	53.9	40.6	48.1	45.6	1.60
Nairn	56.3	42.2	48.6	45.4	1.61
Aberdeen	55.0	41.9	48.9	45.4	1.99
Leith	57.8	42.4	50.1	46.7	1.67
Shields	54.4	42.9	49.0	46.0	1.69
Spurn Head	54.3	45.1	49.3	47.2	1.57
York	59.6	42.2	49.8	46.7	1.85
Loughborough	61.7	42.6	51.1	47.7	2.09
Ardrossan	56.5	43.9	49.5	46.7	2.34
Mullaghmore	56.7	46.3	50.2	47.4	2.42
Donaghadee	56.0	44.2	49.6	47.5	2.26
Holyhead	56.2	46.2	50.5	48.0	1.90
Liverpool	58.0	45.0	50.8	46.9	1.84
Parsonstown	59.5	42.7	51.0	47.8	2.24
Valencia	58.1	46.3	52.8	49.7	3.20
Roche's Point	58.9	46.2	51.7	48.8	3.14
Pembroke	55.0	45.9	49.9	47.7	2.03
Scilly	58.3	48.2	52.7	50.3	1.73
Prawle Point	56.6	45.3	51.4	49.4	1.56
Jersey	59.4	47.2	53.6	50.5	1.87
Hurst Castle	58.6	45.7	51.6	49.9	1.78
Dover	57.0	46.7	52.5	49.3	1.79
LONDON	62.3	44.4	52.5	48.5	1.86
Oxford	60.6	43.4	50.6	47.5	1.95
Cambridge	62.0	42.0	51.7	48.5	1.90
Yarmouth	55.4	44.9	50.6	48.1	1.86

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, 30.0 mm. and more to 29.9 mm. over the southern, eastern, and central France; 29.8 mm. to 29.5 mm. over Ireland and the west of Scotland.
 Lowest, 29.0 mm. and less over Scandinavia; 29.7 mm. and less over Cornwall.
 Gradients moderate, but favourable for winds from very various directions.
 Barometer rising fast in the west and north, falling a little in the south-east.

TEMPERATURE

Highest, 65° at Lyons, 63° at Aix, 62° at Munich and Berlin, 61° at Wiesbaden.
 Lowest, 39° at Kaparondor, 42° at Berlin, 40° to 44° over Scotland.
 In London it is 51°, at Paris 50°. The maxima yesterday were below 60° over the greater part of our islands.

WIND

Strong from N.W. over Denmark and the North Sea; moderate S.W. in the Channel (S.S.E. at Jersey); moderate to fresh from the N.W. over Scotland, Ireland, the Irish Sea and St. George's Channel.
 It blew very strongly from the S.W. over the English Channel and south of England yesterday; attained the force of a gale in some of the squalls.

WEATHER

Changeable and unsettled generally with rain in many places.
 The rainfall (which has been general) has been heavy at Airm and considerable at Balmullet.
 Thunderstorms occurred at some northern and north-eastern stations.

SEA

Very rough off Ushant, rather so in the extreme north, moderate on our south and east coasts, smooth in the north-west.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression noticed over Scotland yesterday has reached the central part of Scandinavia, but a V-shaped secondary system extends thence in a southerly direction across the North Sea and our islands to St. George's Channel and our extreme south-west coasts. To the northward of this system the wind is N.W., to the southward S.W., and as the system itself is moving southwards then N.W. wind is likely to become general before long with colder and showery weather.

FORECASTS

For the 24 hours ending at NOON on 3rd MAY 1891.

DISTRICTS.

FORECASTS.

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

W^{ly} to N^{ly} winds; colder, squally, showery.

SW^{ly} winds; mild, showery; then NW^{ly}, colder, unsettled.

DISTRICTS.

FORECASTS.

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

NW^{ly} and N^{ly} breezes; colder, some showers.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.21	45	44	SSE	8	r	5		Holyhead ...	29.26	51	50	SSW	5	bc
Sumburgh Head ...	29.20	42	41	NE	3	0	3		Valencia ...	29.35	54	52	WNW	4	cq
Stornoway ...	29.19	43	42	E	5	0	4		Scilly ...	29.47	54	52	SW	6	c
Aberdeen ...	29.07	50	49	SSE	2	cp	2		Jersey ...	29.67	54	56	SW	4	bc fog
Shields ...	29.16	58	61	SSW	4	0	2		Dungeness ...	29.61	53	51	SW	6	r
Ardrossan ...	29.12	44	47	SW	2	op	1		London ...	29.54	58	54	SW	6	cvg
Malin Head ...	29.18	43	42	N	4	0	3		Yarmouth ...	29.50	54	53	SSW	6	cvg
Mullaghmore ...	29.20	46	44	NNW	5	op	4		Rochefort ...	29.87	61	59	WNW	3	0
Belmullet ...	29.27	48	45	NNW	4	0	*								

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

Weather in morning fine and bright over the Mediterranean, southeastern and central Europe, cloudy or overcast elsewhere and unsettled, especially over the British Islands. Rain falling at several of the British and Irish stations, and on the shores of the Baltic as well as at Uleaborg. Snow at Haparanda. Rain falling during day throughout the British Islands, Scandinavia, the Netherlands and north of France - heavily in some places. Thunderstorms over the N.E. part of Ireland and England; continuing fine over central and southern Europe.

Temperature in morning exceeding 60° at many stations on the shores of the Mediterranean, and exceeding 70° locally in the N.E. of Spain; below 50° over the N.W. parts of the British Islands, Scandinavia, the Baltic and Russia, and as low as 35° at Haparanda, 36° at Archangel, 37° at St. Petersburg and Kuopio, 39° at Abo. Rising during day to between 55° and 60° over the British Islands, and to between 70° and 80° over Germany and the S. half of France.

Wind light and anticyclonic over the Mediterranean, S.W. and E. Europe, mainly S.W. in the W. and N. and blowing strongly in the English Channel. S.E. and E. over Scotland. The S.W. wind becoming very strong and squally in the Channel and S. of England later, but H.E. to N.W. winds setting in over Ireland and the N. of Scotland.

Barometer highest 30.2 ins. and more to 30.0 ins. in a large anticyclone covering S.E. Europe, the Mediterranean and the S. half of the Spanish Peninsula, lowest 29.3 ins. and less over Lapland, 29.2 ins. and less in a depression advancing over our N.W. coasts from the westward. Latter disturbance travelling across Scotland later and barometer rising fast at the Irish 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.
The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark the observations are taken at 8 p.m. (Christiania time).

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

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

DAILY WEATHER REPORT.

for Sunday, 3rd May, 1891.
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 5.)	SHADE TEMP.		Amount of Rainfall.	
		Reading at 32° F. and Sea Level.	Dry.	Dirce.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirce.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...	29.22	39	NE	4	0	29.40	+ .08	37	36	— 2	NE	4	r	*	45	28	0.04	
	Hernösand ...	29.25	42	L	0	b	29.42	+ .43	44	40	+ 2	L	0	b	*	52	37	—	
	Stockholm ...	29.47	50	WSW	4	c	29.55	+ .27	49	43	— 5	SW	4	b	*	57	41	—	
	Wisby ...	29.60	50	W	4	0	29.59	+ .11	52	49	— 2	W	4	bc	*	57	45	—	
	Bodö ...	29.24	44	E	2	0	29.39	+ .24	42	41	0	E	2	0	1	45	39	0.04	
	Christiansund ...	29.36	42	WSW	3	c	29.41	+ .30	42	40	— 2	WSW	3	c	3	46	39	0.12	
	Skudesnaes ...	29.49	45	L	0	0	29.50	+ .33	44	42	0	WNW	4	c	3	50	39	0.12	
	Christiania Fjord (Færdar) ...	29.41	44	SSW	4	b	29.44	?	43	42	— 2	SW	3	c	3	45	41	—	
	Skagen (The Scaw) ...	29.55	44	W	3	0	29.46	+ .09	43	42	— 6	W	1	r	1	54	41	0.04	
	Fanö ...	29.61	46	S	4	0	29.61	+ .05	43	42	— 7	W	6	c	*	50	43	0.04	
BRITISH ISLANDS.	Sumburgh Head ...	29.50	44	NNW	3	b	29.53	+ .18	44	42	— 1	N	1	c	3	49	37	—	
	Stornoway ...	29.62	42	NW	4	0	29.60	+ .08	42	41	— 1	N	4	c	4	45	34	0.04	
	Wick ...	29.55	38	N	2	bc	29.60	+ .17	45	43	+ 1	NN	3	bc	2	51	35	0.03	
	Nairn ...	29.58	44	NW	2	c	29.60	+ .13	43	38	+ 3	NN	1	c	1	46	37	0.10	
	Aberdeen ...	29.58	44	N	2	c	29.66	+ .19	44	39	+ 2	W	2	bc	1	45	37	0.25	
	Leith ...	29.60	45	? SE	2	r	29.69	+ .27	44	40	0	SW	2	0	*	52	37	0.53	
	Shields ...	29.58	46	N	3	c	29.72	+ .27	47	41	— 1	WNW	3	c	2	51	36	—	
	Spurn Head ...	29.61	47	WNW	5	c	29.81	+ .25	44	42	— 6	WSW	4	0	3	53	41	—	
	York ...	29.62	49	W	1	bc	29.81	+ .26	46	43	— 3	SW	3	bc	*	56	37	?	
	Loughborough ...	29.68	50	WNW	3	bc	29.87	+ .26	47	44	— 3	WSW	3	bc	*	55	39	0.01	
GERMANY & HOLLAND.	Ardrossan ...	29.63	46	W	5	b	29.67	+ .17	43	42	+ 1	SSW	5	p	4	50	41	0.04	
	Malin Head ...	29.72	42	NW	3	op	29.66	+ .08	42	42	— 2	SW	2	or	2	46	40	0.29	
	Mullaghmore ...	29.79	45	NW	5	cp	29.70	+ .02	46	44	+ 2	SW	5	opg	3	49	41	0.19	
	Belmullet ...	29.81	47	NW	3	c	29.71	— .01	49	48	+ 5	W	3	0	*	49	49	0.07	
	Donaghadee ...	29.72	45	NE	5	c	29.74	+ .16	43	43	— 2	SW	3	r	1	51	42	0.03	
	Liverpool (Bidston) ...	29.72	46	W	4	b	29.85	+ .24	46	41	+ 1	WSW	3	c	3	51	41	0.01	
	Holyhead ...	29.73	48	WNW	2	b	29.83	+ .21	46	42	+ 1	SW	4	og	3	52	40	—	
	Parsonstown ...	29.80	48	NW	1	0	29.81	+ .11	47	45	+ 2	SW	1	c	*	52	36	—	
	Valencia ...	29.91	49	NW	2	cp	29.88	+ .09	51	47	+ 3	WSW	3	c	3	53	42	0.06	
	Roche's Point ...	29.83	50	NNW	4	b	29.89	+ .19	50	46	+ 3	W	4	b	4	53	41	—	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.) ...	29.80	46	W	3	bc	29.92	+ .26	46	44	— 1	WSW	3	b	3	49	44	—	
	Scilly ...	29.88	50	NW	4	bc	29.99	+ .32	50	46	+ 2	W	4	bc	4	50	46	—	
	Prawle Point ...	29.82	49	WNW	3	bc	29.99	+ .36	48	46	— 1	W	3	b	2	54	40	—	
	Jersey (St. Aubin's) ...	29.83	51	W	4	b	30.05	+ .33	50	47	— 5	WSW	4	b	3	60	43	0.05	
	Hurst Castle ...	29.75	50	WNW	3	c	29.98	+ .31	48	46	— 1	W	3	b	3	53	40	0.05	
	Dungeness ...	29.67	49	SW	5	c	29.94	+ .23	48	46	— 1	W	3	c	2	56	36	0.12	
	London ...	29.70	47	SW	3	op	29.93	+ .26	50	45	— 1	W	2	brw	*	58	36	0.10	
	Oxford ...	29.78	43	WSW	2	bc	29.92	+ .28	46	44	— 6	WSW	3	bc	*	53	36	0.42	
	Cambridge ...	29.68	48	SW	1	c	29.91	+ .27	49	45	— 4	SW	1	c	*	58	33	0.26	
	Yarmouth ...	29.64	47	NNW	1	c	29.86	+ .24	46	44	— 6	W	2	bc	2	54	35	0.11	
GERMANY & HOLLAND.	Cuxhaven ...	29.72	48	SW	3	r	29.70	— .00	47	46	— 5	W	6	bc	*	50	36	0.28	
	Berlin ...	29.76	56	NW	2	0	29.80	— .04	60	55	— 2	W	4	c	*	73	54	—	
	Wiesbaden ...	*	*	*	*	*	29.94	+ .06	56	52	— 5	SW	2	0	*	68	52	0.04	
	Munich ...	29.86	64	E	2	c	30.01	— .00	57	52	— 5	L	0	0	*	75	52	—	
	The Helder ...	29.67	49	SW	2	c	29.87	+ .12	46	?	— 3	WSW	3	c	3	54	45	0.04	
	Brussels (9 a.m.) ...	*	*	*	*	*	29.97	+ .16	48	?	— 4	SW	2	bc	*	58	41	0.04	
	Cape Gris Nez ...	29.68	49	W	4	c	29.93	+ .21	48	45	— 2	SW	1	b	1	57	43	0.08	
	Paris ...	29.84	54	SSW	4	0	30.03	+ .16	48	45	— 2	WSW	1	m	*	58	41	0.08	
	Brest ...	29.93	51	NNW	2	bc	30.05	+ .22	49	?	— 2	WNW	6	bc	4	55	45	—	
	Lorient ...	29.88	54	WNW	3	c	30.08	+ .31	47	45	— 6	L	0	b	4	57	45	—	
FRANCE AND BELGIUM.	Rocheport ...	29.81	55	SW	4	0	? 29.95	+ .07	49	46	— 3	NNW	4	b	*	59	39	0.16	
	Belfort ...	29.87	66	SSW	5	c	?	?	54	52	— 10	SW	1	0	*	76	48	—	
	Lyons ...	29.87	67	S	3	0	30.02	+ .11	50	49	— 15	N	2	0	*	74	49	0.35	
	Nice ...	30.01	63	SW	2	c	29.91	— .16	61	55	— 2	SW	2	0	0	72	59	—	
	Perpignan ...	29.86	62	NE	5	c	29.92	— .03	57	51	— 1	W	4	0	*	75	50	—	
	Biarritz ...	29.99	54	NNE	2	r	30.02	+ .10	53	52	— 5	E	2	0	5	61	50	0.47	
	Corunna ...	*	*	*	*	*	29.97	+ .08	58	50	— 2	NN	3	c	3	64	50	0.24	
	Lisbon ...	30.05	57	NNW	4	b	30.12	+ .07	55	50	— 4	NNW	5	b	5	64	52	—	
	SEVILLE ...	*	*	*	*	*	29.97	+ .08	58	50	— 2	NN	3	c	3	64	50	0.24	
	Lisbon ...	30.05	57	NNW	4	b	30.12	+ .07	55	50	— 4	NNW	5	b	5	64	52	—	

For Explanation of Columns, see bottom of p. 4.

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

WEATHER CHARTS

for 8 a.m. on Sunday, 3rd May, 1891.

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.

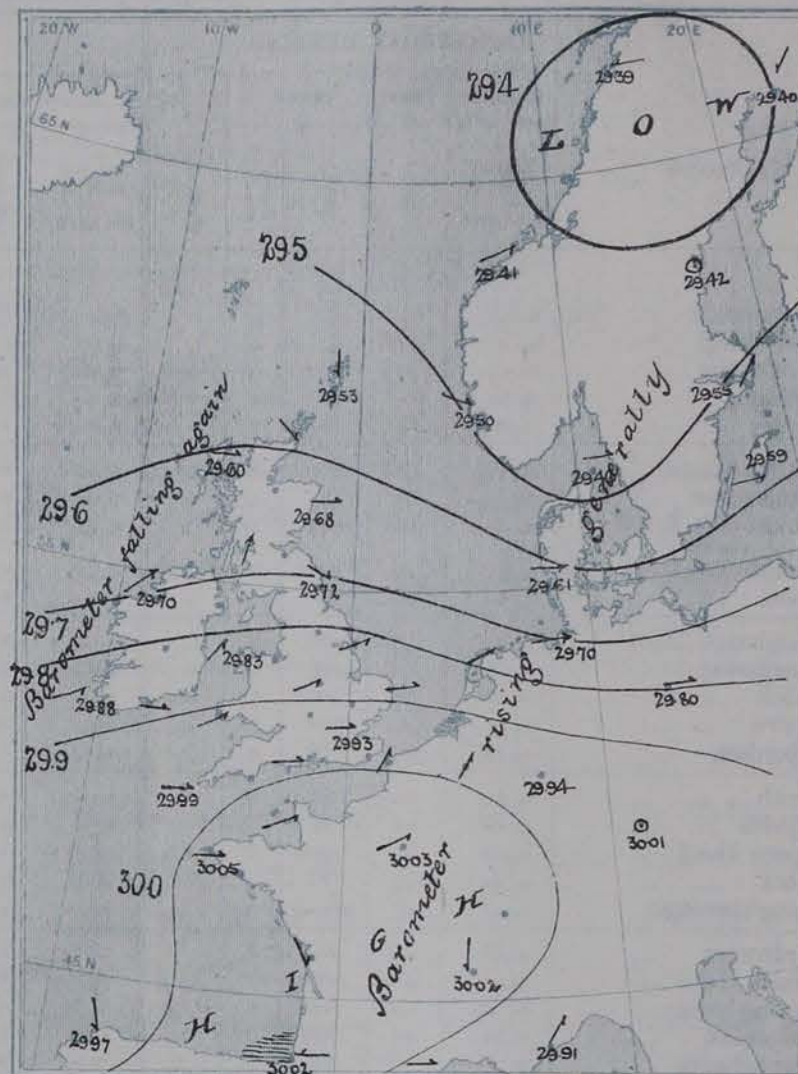
SEA DISTURBANCE—Where considerable, is shown thus:

≡ = Rough, ≡ = High.

MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.879
Stornoway	29.886
Wick	29.901
Nairn	29.908
Aberdeen	29.918
Leith	29.932
Shields	29.943
Spurn Head	29.956
York	29.962
Loughborough	29.973
Ardrossan	29.985
Mullaghmore	29.929
Donaghadee	29.947
Holyhead	29.956
Liverpool	29.961
Parsonstown	29.958
Valencia	29.963
Roche's Point	29.959
Pembroke	29.961
Scilly	29.974
Prawle Point	29.992
Jersey	29.989
Hurst Castle	29.982
Dover	29.970
LONDON	29.981
Oxford	29.981
Cambridge	29.976
Yarmouth	29.967



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.

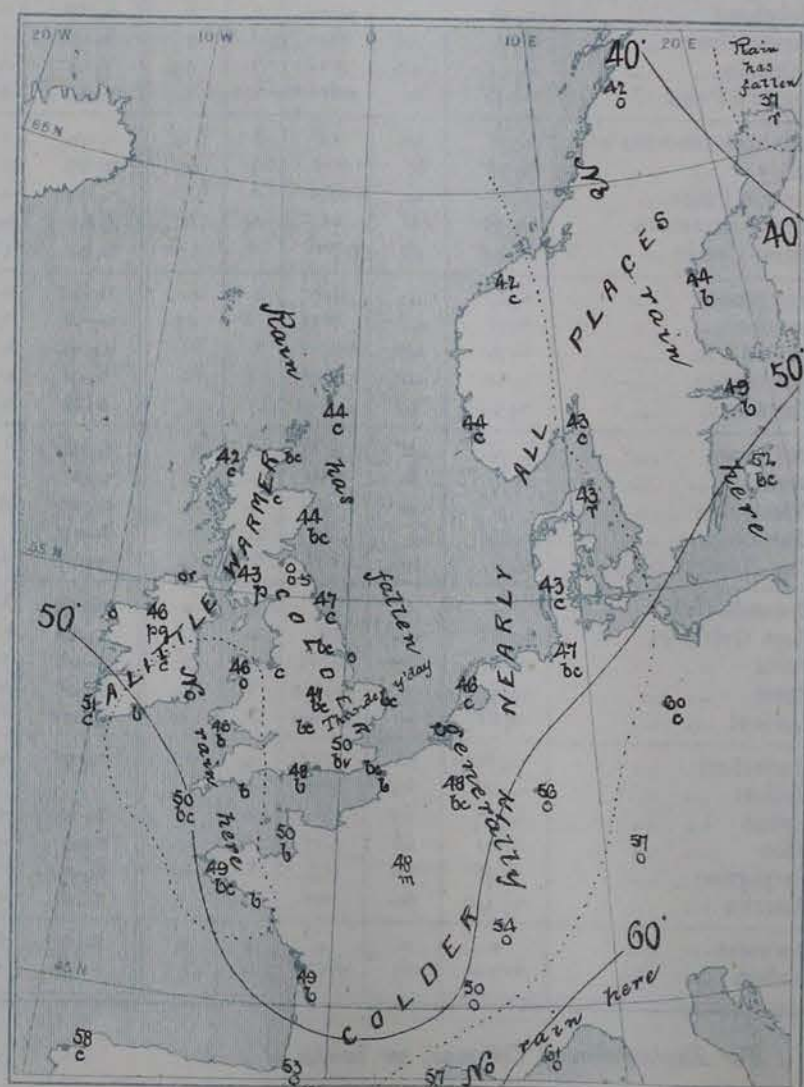
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of May.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	50.3	40.2	46.1	44.0	1.72
Stornoway	53.3	41.1	48.5	46.4	2.61
Wick.....	53.9	40.6	48.1	45.6	1.69
Nairn	50.3	42.2	48.6	45.4	1.61
Aberdeen	55.0	41.9	48.9	45.4	1.99
Leith.....	57.8	42.4	50.1	46.7	1.67
Shields	54.4	42.9	49.0	46.0	1.69
Spurn Head.....	54.3	45.1	49.3	47.2	1.57
York	59.6	42.2	49.8	46.7	1.85
Loughborough	61.7	42.6	51.1	47.7	2.09
Ardrossan	56.5	43.9	49.5	46.7	2.34
Mullaghmore	59.7	46.3	50.2	47.4	2.42
Donaghadee.....	56.0	44.2	49.6	47.5	2.26
Holyhead	56.2	46.2	50.5	48.0	1.90
Liverpool.....	58.0	45.0	50.8	46.9	1.84
Parsonstown	59.5	42.7	51.0	47.8	2.24
Valencia	58.1	46.3	52.8	49.7	3.20
Roche's Point	58.9	46.2	51.7	48.8	3.14
Pembroke.....	55.0	45.9	49.9	47.7	2.03
Scilly	56.3	48.2	52.7	50.3	1.73
Prawle Point	56.6	45.3	51.4	49.4	1.56
Jersey	59.4	47.2	53.6	50.5	1.87
Hurst Castle	54.6	45.7	51.6	49.9	1.78
Dover	57.0	46.7	52.5	49.3	1.79
LONDON	62.3	44.4	52.5	48.5	1.86
Oxford	60.6	43.4	50.6	47.5	1.95
Cambridge	62.0	42.0	51.7	48.5	1.90
Yarmouth	55.4	44.9	50.6	48.1	1.86

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: to 29.9 ins: over Spain, France, western Germany, and the south of our Islands.
Lowest, 29.5 ins: to 29.4 ins: and less, over Scandinavia and Ireland.

Gradients moderate to slight.

Barometer rising in the north and northwest (most over Scandinavia) falling slightly in the south.

TEMPERATURE

Highest, 61° at Nice, 58° at Florence, 55° at Leith, 53° at Birmingham, 51° at Valencia Island, 50° at Pelly and in London.

Lowest, 37° at Haparanda, 42° in the northwest of Norway, 43° at Tromsø, Kavi, and Androscow.

It rose to between 53° and 58° over the northeastern, eastern, and southern parts of England yesterday, to 60° at Jersey, and to upwards of 70° in many parts of Germany and France.

WIND

Light NW in the north of Scotland, W to SW at our other stations and over the North Sea, SW in the Baltic, but E at Riga and Haparanda. Variable and light over Spain and the south of France.

WEATHER

Fine over France and the south of our Islands and in Sweden - cloudy or overcast elsewhere with showers at many of our northern stations. Rain has fallen generally except over our northeastern and southwestern counties, also in several parts of France. Greatest falls 0.53 in: at Leith, 0.42 in: at Oxford, and 0.47 in: at Biarritz.

SEA

Moderate in the southwest and at Tromsø, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 4th MAY 1891.

DISTRICTS.

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

FORECASTS.

None Issued

DISTRICTS.

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

FORECASTS.

None Issued

WARNINGS

None Issued

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.44	50	45	NN	4	c	3		Holyhead ...	29.71	52	47	NN	3	2
Sumburgh Head ...	29.45	47	45	NNW	3	bc	3		Valencia ...	29.88	52	46	NN	3	4
Stornoway ...	29.61	45	42	NN	4	o	4		Scilly ...	29.80	50	46	NN	5	5
Aberdeen ...	29.55	41	40	N	2	or	3		Jersey ...	29.73	53	51	W	4	3
Shields ...	29.50	48	44	W	4	c	2		Dungeness ...	29.67	50	49	SW	5	4
Ardrossan ...	29.60	48	45	W	4	b	3		London ...	29.64	51	49	NN	5	8
Malin Head ...	29.69	45	42	NNW	3	o	3		Yarmouth ...	29.62	51	50	S	4	3
Mullaghmore ...	29.76	48	42	NN	5	bcv	4		Rochefort ...	29.89	54	52	SW	4	2
Belmullet ...	29.79	48	43	N	3	bc	*								

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

Weather in morning fine and bright over central and southern Russia, southeastern, central, and southern Europe, as well as the southern side of the Mediterranean and the southern half of Spain; cloudy and unsettled elsewhere, with rain at many stations over northern and northwestern Europe and the British Islands. Rain later in most parts of our Islands, France, the Netherlands, and Northern Europe, heavy in some places; thunderstorms in several parts of the United Kingdom.

Temperature in morning exceeding 60° at most of the Mediterranean stations and over Central Europe, and exceeding 50° all over France; lower elsewhere, below 50° over the United Kingdom and northern Europe, and as low as 35° F. at Archangel, 38° at Kuopio, 39° at Haparanda, and 40° at Nain. Rising later to 70° and more in many parts of France, Italy, Austria, and Germany, to 60° at Jerez, but not exceeding 58° in any part of our Islands, and not touching 50° at our most northern stations.

Wind very light and variable over southeastern and southern Europe and the Mediterranean, mainly SW over the more northern countries, and blowing very strongly over the eastern shore of the North Sea, freshly in the English Channel. Moderate NW breezes prevalent over Scotland, Ireland, and the west of England. The NW breeze becoming general over England later; the SW wind moderating in Denmark, but increasing to a moderate gale at some Baltic stations.

Barometer highest 30.2 ins. to 30.0 ins. over all parts of southeastern Europe, as well as the Mediterranean and the southern half of Spain. Lowest, 29.0 ins. and less, in a depression over Scandinavia, and 29.5 ins. to 29.7 ins. in a V-shaped secondary spreading in a southwesterly direction across England. Latter system moving southwards later, while the primary advanced to Finland and began to fill 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.
The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark the observations are taken at 8 p.m. (Christiania time).

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

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

„ Weekly „ „ „ £1 10 0 „

DAILY WEATHER REPORT.

for *Monday, 4th May, 1891.*
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 5.)	SHADE TEMP.		Amount of Rainfall.	
				Reading at 3 ²⁰ P. and Sea Level.	Dry.		Dirac.	Force. (0 to 12.)	Reading at 3 ²⁰ P. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.			Dirac.	Force. (0 to 12.)		Max.	Min.
SCANDINAVIA.	Haparanda ...	29.62	28	E	7	0	29.82	+42	25	23	-12	SNE	6	C	*	39	3	0.08	
	Hernösand ...	29.45	40	Z	0	bc	29.68	+26	39	35	-5	N	2	C	*	55	37	-	
	Stockholm ...	29.51	42	WSW	4	b	29.71	+16	45	41	-4	W	6	b	*	57	41	0.43	
	Wisby ...	29.66	43	W	6	bc	29.79	+20	41	39	-11	WSW	6	b	*	55	41	-	
	Bodö ...	29.49	42	E	2	0	29.67	+28	40	34	-2	E	4	bc	2	48	36	-	
	Christiansund	29.50	43	WNW	4	C	29.69	+28	41	40	-1	WSW	4	r	3	48	41	0.20	
	Skudesnaes ...	29.68	44	WNW	2	0	29.78	+28	45	42	+1	S	2	0	2	50	39	-	
	Christiania Fjord (Færd)	29.57	48	WNW	4	b	29.76	+32	45	40	0	WNW	5	b	4	48	41	-	
	Skagen (The Scaw)	29.70	42	W	6	b	29.85	+39	42	41	-1	SW	1	0	1	48	39	-	
	Fanö ...	29.87	43	WSW	5	C	29.86	+25	48	46	+5	S	4	b	*	48	41	-	
BRITISH ISLANDS.	Sumburgh Head	29.62	42	N	1	bc	29.78	+25	42	41	-2	Z	0	0	2	48	38	0.02	
	Stornoway ...	29.68	45	E	3	bc	29.88	+28	48	46	+6	Z	0	bc	2	48	32	0.02	
	Wick ...	29.73	41	NW	1	C	29.86	+26	43	41	-2	NW	2	C	2	51	37	0.07	
	Nairn ...	29.65	45	E	1	bc	29.84	+24	44	42	+1	SW	1	bc	0	53	38	-	
	Aberdeen ...	29.68	43	SSE	2	C	29.89	+23	45	41	+1	WNW	2	bc	2	51	36	0.02	
	Leith ...	29.67	50	NW	1	C	29.88	+19	46	42	+2	SW	1	bcm	*	52	37	0.01	
	Shields ...	29.70	51	SW	4	cp	29.86	+14	47	43	0	W	3	bc	2	53	37	-	
	Spurn Head ...	29.81	52	SW	3	C	29.89	+08	50	48	+6	W	3	b	3	54	43	-	
	York ...	29.79	52	SW	3	C	29.91	+10	50	45	+4	W	1	b	*	54	42	-	
	Loughborough	29.86	51	SW	2	0	29.94	+07	53	49	+6	WNW	2	bc	*	57	46	-	
GERMANY & HOLLAND.	Ardrossan ...	29.68	48	SSW	1	b	29.90	+23	49	46	+6	WNW	3	b	2	51	36	-	
	Malin Head ...	29.71	48	WNW	2	bcap	29.88	+22	45	44	+3	NW	1	b	1	51	41	0.08	
	Mullaghmore ...	29.77	49	WSW	4	bcr	29.93	+23	49	45	+3	WNW	2	cw	2	52	43	0.01	
	Belmullet ...	29.77	51	W	4	b	29.88	+17	49	45	0	WNW	1	b	*	53	39	0.04	
	Donaghadee ...	29.73	48	NE	3	b	29.92	+18	49	46	+6	WNW	3	b	1	54	40	0.26	
	Liverpool (Bidston)	29.80	49	SW	5	C	29.96	+11	48	46	+2	W	3	bc	3	55	44	0.03	
	Holyhead ...	29.79	49	SW	5	omqyp	29.94	+11	54	50	+8	WNW	2	bcw	2	54	43	0.01	
	Parsonstown ...	29.82	51	Z	0	0	29.98	+17	49	46	+2	Z	0	bc	*	57	38	-	
	Valencia ...	29.90	51	WSW	3	C	30.00	+12	52	47	+1	SW	2	0	2	55	44	-	
	Roche's Point...	29.86	54	WSW	4	bc	29.99	+10	50	47	0	NW	1	b	3	55	44	0.02	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.88	49	SSW	4	bc	29.98	+06	49	46	+3	W.	3	C	3	51	46	0.01	
	Scilly ...	30.00	53	W	4	bc	30.00	+01	51	50	+1	W	3	bcpm	4	57	47	-	
	Prawle Point ...	29.98	49	SW	3	b	30.02	+03	49	48	+1	WSW	2	C	1	51	46	-	
	Jersey (St. Aubin's)	30.04	52	W	3	bc	30.04	-01	52	49	+2	WSW	3	cm	3	56	44	-	
	Hurst Castle ...	29.98	50	WSW	4	b	30.01	+03	51	50	+3	W	3	bc	2	53	47	-	
	Dungeness ...	29.95	49	WSW	5	bc	29.97	+03	49	48	+1	W	4	C	3	53	45	-	
	London ...	29.92	55	WNW	3	C	30.08	+15	51	47	+1	WSW	2	bc	*	58	42	-	
	Oxford ...	29.94	49	SW	3	C	29.98	+06	50	48	+4	W	2	bc	*	56	42	-	
	Cambridge ...	29.92	50	W	1	b	29.96	+05	52	48	+3	NW	1	bc	*	58	40	-	
	Yarmouth ...	29.89	54	W	3	bc	29.94	+08	50	48	+4	WNW	2	bc	2	55	43	-	
PENIN. ISLA.	Cuxhaven ...	29.92	46	W	4	bc	29.97	+27	43	42	-4	SW	2	bc	*	50	43	-	
	Berlin ...	29.98	56	WNW	4	b	30.04	+24	52	47	-8	SE	2	b	*	63	45	-	
	Wiesbaden ...	*	*	*	*	*	29.98	+04	54	48	-2	Z	0	C	*	66	45	-	
	Munich ...	30.03	54	Z	0	r	29.96	-05	55	53	-2	NE	3	C	*	63	50	0.04	
	The Helder ...	29.97	47	SW	1	bc	29.94	+07	48	47	0	SSW	2	b	3	52	43	-	
	Brussels (3 a.m.)	*	*	*	*	*								*					
	Cape Gris Nez	29.97	47	W	3	b	29.99	+06	48	46	0	SW	2	0	2	54	45	-	
	Paris ...	30.03	58	WNW	2	b	30.06	+03	49	44	+1	N	1	b	*	63	38	-	
	Brest ...	30.10	57	W	2	b	30.08	+03	50	48	+1	NW	2	0	1	59	46	-	
	Lorient ...	30.07	53	W	4	b	30.06	-02	50	49	+3	E	1	bc	3	55	46	-	
PENIN. ISLA.	Rochefort ...	30.06	54	WNW	5	b	30.04	+09	52	50	+3	WNW	3	C	*	59	41	-	
	Belfort ...	?	58	NW	3	C	?	?	56	55	+2	N	2	0	*	63	50	-	
	Lyons ...	29.99	55	N	2	r	29.93	-09	49	47	-1	N	3	0	*	59	48	0.12	
	Nice ...	29.83	64	SW	2	C	29.84	-07	59	57	-2	NE	4	C	0	73	57	0.04	
	Perpignan ...	29.95	55	W	2	0	29.89	-03	53	49	-4	W	4	0	*	63	47	0.39	
	Biarritz ...	30.08	54	N	5	b	30.06	+04	51	50	-2	E	3	0	1	57	50	0.04	
	Corunna ...	*	*	*	*	*								*					
Lisbon ...	30.04	54	N	6	b	30.02	-10	54	47	-1	N	5	b	3	61	54	-		

For Explanation of Columns, see bottom of p. 4.

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

WEATHER CHARTS

for 8 a.m. on Monday, 4th May, 1891.

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:

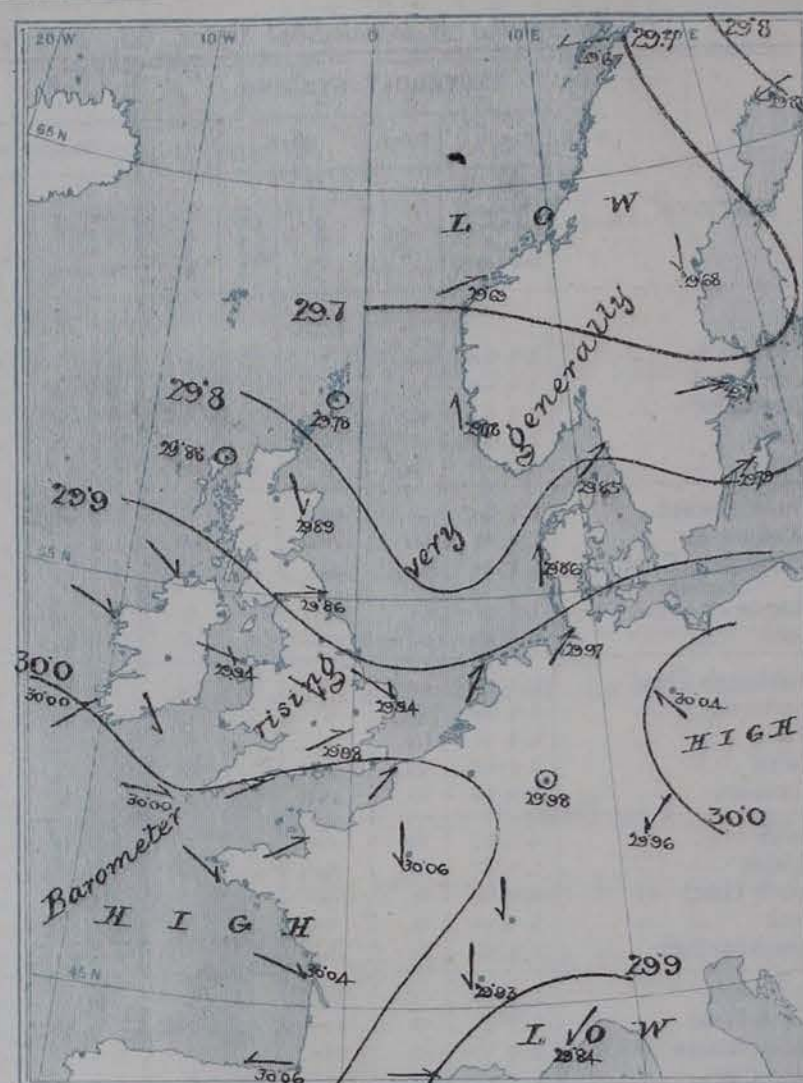
≡ = Rough. ≡ = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of May

During the 20 Years; 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.879
Stornoway	29.886
Wick	29.901
Nairn	29.908
Aberdeen	29.918
Leith	29.932
Shields	29.943
Spurn Head	29.956
York	29.962
Loughborough	29.973
Ardrossan	29.935
Mullaghmore	29.929
Donaghadee	29.947
Holyhead	29.956
Liverpool	29.961
Parsonstown	29.958
Valencia	29.963
Roche's Point	29.959
Pembroke	29.961
Scilly	29.974
Prawle Point	29.992
Jersey	29.989
Hurst Castle	29.982
Dover	29.970
LONDON	29.981
Oxford	29.981
Cambridge	29.976
Yarmouth	29.967



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 May.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily	Daily	at 8 a.m.		
	Max.	Min.	Dry.	Wet.	
Sumburgh Head.....	50.3	40.2	46.1	44.0	1.72
Stornoway	53.3	41.1	48.6	46.4	2.61
Wick	53.9	40.6	48.1	45.6	1.69
Nairn	56.3	42.2	48.6	45.4	1.61
Aberdeen	55.0	41.9	48.9	45.4	1.99
Leith	57.8	42.4	50.1	46.7	1.67
Shields	54.4	42.9	49.0	46.0	1.69
Spurn Head.....	54.3	45.1	49.3	47.2	1.57
York	59.6	42.2	49.8	46.7	1.85
Loughborough	61.7	42.6	51.1	47.7	2.09
Ardrossan	56.5	43.9	49.5	46.7	2.34
Mullaghmore	56.7	46.3	50.2	47.4	2.42
Donaghadee.....	56.0	44.2	49.6	47.5	2.26
Holyhead	58.2	46.2	50.5	48.0	1.90
Liverpool	58.0	45.0	50.8	46.9	1.84
Parsonstown	59.5	42.7	51.0	47.8	2.24
Valencia	58.1	46.3	52.8	49.7	3.20
Roche's Point	58.9	46.2	51.7	48.8	3.14
Pembroke.....	55.0	45.9	49.9	47.7	2.03
Scilly	56.3	48.2	52.7	50.3	1.73
Prawle Point	56.6	45.3	51.4	49.4	1.66
Jersey	59.4	47.2	53.6	50.5	1.87
Hurst Castle	54.6	45.7	51.6	49.9	1.78
Dover	57.0	46.7	52.5	49.3	1.79
LONDON	62.3	44.4	52.5	48.5	1.86
Oxford	60.6	43.4	50.6	47.5	1.95
Cambridge	62.0	42.0	51.7	48.6	1.90
Yarmouth	55.4	44.9	50.6	48.1	1.86

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	<p>Highest, 30.0 ins. and more, over the Bay of Biscay & France, also over Germany.</p> <p>Lowest, 29.7 ins. and less, over Scandinavia, 29.9 ins. and less, in the south of France.</p> <p>Gradients slight. Barometer rising in most places, but unsatisfactorily in the south.</p>
TEMPERATURE	<p>Highest, 53° at Nice, 54° at Lisbon, 52° at Valencia Island, 51° at Sicily, and in London.</p> <p>Lowest, 25° at Haparanda, 33° at Helsingfors, 41° at Narvik and Christiansund.</p> <p>It has been below 40° in Scotland and Central Ireland during the night, but not over England.</p>
WIND	<p>Light generally; variable between NW. and SW. over our Islands, SW. in the Netherlands, S. in Denmark, SE. at Berlin.</p> <p>Over the southeastern half of France and at Lisbon it is N.</p>
WEATHER	<p>Fine and bright over France, fair as a whole elsewhere, but showery at Sicily. In London the clouds are increasing and assuming a showerlike appearance. Rain has fallen in the northwest and north (not heavily).</p>
SEA	<p>Very little disturbed.</p>

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

During the past day the barometer has risen over the whole of our area — most in the north and northwest. A shallow depression of irregular form lies over Scandinavia, a shallow V-shaped secondary system over the North Sea, and another over the mouth of the Bristol Channel. Temperature is rather low. Showers have fallen in the west and north, and appear likely to reach London and the other southeastern parts of England during the day.

FORECASTS

For the 24 hours ending at NOON on 5th MAY 1891.

DISTRICTS.

FORECASTS.

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

NW. breezes, light and varying; fine to rather showery.

SW. and W. breezes, light; becoming showery for a time, thunder not improbable.

DISTRICTS.

FORECASTS.

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

Same as Nos 0 to 2.

Varying NW. to SW. breezes, light, fair as a whole, but some local 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:		WIND		WEA	SEA		BAR:	THER:		WIND		WEA	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.60	50	45	W	4	bc	3		Holyhead ...	29.81	50	47	Sw	5	5
Sumburgh Head									Valencia ...						
Stornoway ...	29.65	44	43	E	2	c	3		Scilly ...						
Aberdeen ...									Jersey ...	80.05	54	49	Sw	3	bc
Shields ...									Dungeness ...	29.96	52	49	W	5	bc
Ardrossan ...									London ...						4
Malin Head ...	29.68	49	47	WNW	2	b	1		Yarmouth ...						*
Mullaghmore ...									Rochefort ...						
Belmullet ...	29.80	53	50	W	5	c	*								

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

Weather in morning fine and bright over Algeria, the south and west of Spain, many parts of France and the southern counties of England, also over Sweden, southeastern Europe and the Black Sea; cloudy or overcast elsewhere, rainy in the northwest of Ireland, at the Scaw, and at Haparanda. Some rain later in Scotland, Ireland and Wales, as well as in the south of France, and at Munich, central and

Temperature exceeding 60° over southeastern Europe, and at the Mediterranean stations, below 50° over the greater part of the United Kingdom, and northwestern Europe, as low as 34° at Haparanda and Uleaborg, 41° at Hango, 42° at Bodø, 43° at Faerden, the Scaw and Farsø. Not touching 60° at any of our stations during day, but rising to between 60° and 66° over Germany, and to between 65° and 70° in the south of France.

Wind moderate from between SW. and NW over the whole of the United Kingdom, strong W. over Holstein, moderate SW. to S. over the Baltic, E. over Lapland. Very variable over southwestern, southern and central Europe, light S. over Russia. Light E. breeze at Stornoway later, and S. air over Scotland.

Barometer highest 30.0 and more, to 29.9 ins. over the Bay of Biscay, France, Spain and the south of England; 30.1 ins. and more to 29.9 ins. over southern Russia, the Black Sea and southeastern Europe. Lowest 29.5 ins. to 29.4 ins. and less over Scandinavia and Finland, and 29.9 ins. to 29.8 ins. and less in a hollow over Germany, Poland and Austria. Shallow secondary disturbance forming over Scotland later, but barometer rising at the northern and northwestern stations generally.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 26TH APRIL TO 2ND MAY 1891.

In the course of this week the weather over the British Islands and their neighbourhood has undergone a gradual but radical change; the anticyclone, which, at the commencement, lay directly over England has disappeared entirely, and with it have disappeared the E. winds and low temperatures also. Gradients for SW. to NW. winds have become prevalent, and, as they have on some occasions been steep, the winds have been strong and squally at times (especially over the English Channel and on the eastern shores of the North Sea) the weather showery and sometimes mild. Several depressions have passed over, or near to our Islands, none of them deep; the principal were—

- 1st. One which appeared over the Bay of Biscay early on the 27th and travelling north-eastward over France and the North Sea, grew deeper over Scandinavia, and then disappeared over the Finland and northern Russia.
- 2nd. A small, but deeper system, apparently formed off the north of Scotland on the 28th; this moved north-eastward and eastward, and passed out of our area on the 29th and 30th.
- 3rd. A well-marked system, which reached the northwest of Ireland early on May 1st, and travelled across Scotland and the North Sea to Sweden and northern Russia, after causing a fresh NW. gale and snow in the north of Scotland. A V-shaped secondary in its rear, brought thunderstorms to many parts of England and a temporary shift of wind to NW. and N.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

* AN ASTERISK is inserted in all places for which information is not usually received.
The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark the observations are taken at 8 p.m. (Christiania time).

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

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

„ Weekly „ „ „ £1 10 0 „

DAILY WEATHER REPORT.

for Tuesday 5th May. 1891.
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		Barom.	Temp.	Wind.			Barometer.		Shade Temp.			Wind.			Shade Temp.				
Reading at 32° F. and Sea Level.	Dry.	Dirac.	Force. (0 to 12.)	Weather.	Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirac.	Force. (0 to 12.)	Weather.	Sea. (0 to 6.)	Max.	Min.	Amount of Rainfall.			
SCANDINAVIA.																			
Haparanda ...	30.03	27	2	0	bc	30.17	+0.35	32	30	+7	SSW	2	c	*	32	23	—		
Hernösand ...	30.04	31	NW	2	o	30.15	+0.47	32	28	-7	NNW	2	bc	*	41	30	—		
Stockholm ...	29.95	39	ENE	2	bc	30.00	+0.29	36	35	-9	NE	4	T	*	53	36	—		
Wisby ...	29.93	43	S	3	bc	29.94	+0.15	43	42	+2	W	2	o	*	52	37	0.12		
Bodö ...	29.88	41	ENE	4	c	29.97	+0.30	34	33	-6	E	4	o	2	41	30	—		
Christiansund	29.89	43	WNW	5	bc	30.06	+0.37	42	39	+1	WNW	7	bc	4	45	39	0.04		
Skudesnaes ...	29.96	43	NW	2	bc	30.19	+0.41	45	39	0	NW	4	bc	2	50	37	—		
Christiania Fjord (Færd)	29.83	43	NNE	3	o	30.04	+0.28	44	40	+1	NNW	4	bc	2	3	39	—		
Skagen (The Scaw)	29.86	41	NW	2	bc	30.04	+0.19	45	41	+3	NNW	2	bc	2	46	39	0.32		
Fanö ...	30.05	41	NW	3	bc	30.16	+0.30	47	44	-1	NW	4	bc	*	52	39	—		
Sumburgh Head	29.99	45	NNW	2	bc	30.17	+0.39	46	43	+4	S	1	c	2	48	35	—		
Stornoway ...	30.00	47	SE	3	bc	30.05	+0.17	46	45	-1	S	3	o	3	50	32	—		
Wick ...	30.05	47	NW	2	bc	30.14	+0.28	46	44	+3	S	3	bc	2	54	41	—		
Nairn ...	29.97	51	ENE	2	bc	30.10	+0.26	45	43	+1	E	1	bc	0	56	32	—		
Aberdeen ...	30.06	45	SE	2	bc	30.19	+0.30	46	44	+1	SE	3	c	2	52	36	0.01		
Leith ...	30.01	53	N	1	bc	30.13	+0.25	48	44	+2	SE	2	bc	*	54	36	—		
Shields ...	30.05	45	E	2	c	30.17	+0.31	45	44	-1	SE	3	o	3	52	40	—		
Spurn Head ...	30.06	48	E	2	bc	30.18	+0.29	48	46	-2	SE	4	bc	3	54	45	—		
York ...	30.04	54	E	1	bc	30.19	+0.28	47	45	-3	E	1	o	*	52	40	—		
Loughborough	30.04	58	NNW	2	c	30.15	+0.21	48	46	-5	ENE	2	om	*	65	47	—		
Ardrossan ...	30.01	50	SW	2	bc	30.09	+0.19	51	48	+2	ENE	2	bc	1	52	35	—		
Malin Head ...	30.00	47	SE	3	bc	29.98	+0.10	48	46	+3	SE	4	o	1	52	44	—		
Mullaghmore ...	29.99	51	2	0	bc	29.98	+0.05	49	44	0	SE	4	om	2	52	47	—		
Belmullet ...	29.98	53	SW	1	bc	29.91	+0.08	50	48	+1	S	4	o	*	53	46	—		
Donaghadee ...	30.03	49	SW	3	bc	30.10	+0.18	47	45	-2	SE	3	c	1	53	45	—		
Liverpool (Bidston)	30.06	53	NNW	1	bc	30.13	+0.17	49	46	+1	SE	2	o	2	56	44	—		
Holyhead ...	30.06	51	WNW	2	bc	30.09	+0.15	53	49	-1	ENE	1	cw	1	57	41	—		
Parsonstown ...	30.01	56	2	0	c	30.01	+0.03	50	47	+1	SE	1	c	*	57	42	—		
Valencia ...	30.01	53	S	3	o	29.94	-0.06	51	50	-1	SE	6	Tm	6	56	49	0.04		
Roche's Point...	30.04	51	SW	3	bc	30.02	+0.08	50	48	0	S	4	c	4	53	46	—		
Pembroke (St. Ann's Hd.)	30.06	50	W	2	bc	30.10	+0.12	45	44	-4	E	2	og	1	52	43	—		
Scilly ...	30.07	52	NNE	2	bc	30.07	+0.07	50	48	-1	ENE	2	bc	4	53	47	0.01		
Prawle Point ...	30.07	50	W	3	o	30.12	+0.10	47	47	-2	ENE	1	f	0	52	43	—		
Jersey (St. Aubin's)	30.08	54	NNW	3	bc	30.13	+0.09	52	49	0	NE	2	om	2	58	41	—		
Hurst Castle ...	30.07	50	WNW	3	cw	30.14	+0.13	52	51	+1	ENE	1	m	1	54	47	—		
Dungeness ...	30.04	49	WNW	3	c	30.13	+0.16	49	47	0	ENE	3	m	2	54	44	—		
London ...	30.05	57	W	1	om	30.15	+0.07	51	47	0	E	1	o	*	55	48	—		
Oxford ...	30.08	54	N	1	o	30.15	+0.17	51	49	+1	ENE	1	o	*	57	48	—		
Cambridge ...	30.04	56	2	0	o	30.18	+0.22	50	46	-2	E	1	o	*	61	46	—		
Yarmouth ...	30.07	49	NE	2	bc	30.21	+0.27	43	42	-7	ENE	4	cf	3	54	40	—		
Cuxhaven ...	30.03	40	NNW	3	c	30.19	+0.22	45	43	+2	NNE	2	bc	*	58	43	—		
Berlin ...	29.99	?	S	?	?	30.15	+0.11	47	45	-5	NNW	5	bc	*	68	45	—		
Wiesbaden ...	*	*	*	*	*	30.06	+0.08	57	49	+3	N	1	bc	*	68	52	—		
Munich ...	29.95	58	2	0	c	29.99	+0.03	53	53	-2	NE	2	c	*	68	52	—		
The Helder ...																			
Brussels (9 a.m.)	*	*	*	*	*	30.14		45	44		NE	3	o	*	61	41	—		
Cape Gris Nez	30.04	50	SW	2	c	30.11	+0.12	47	45	-1	SE	3	m	2	54	43	—		
Paris ...	30.05	57	NNW	3	bc	30.07	+0.01	50	46	+1	NNW	2	bc	*	62	45	—		
Brest ...	30.12	53	NW	2	c	30.08	0.0	55	45	+5	NE	1	o	2	63	46	—		
Lorient ...	30.08	53	NNW	3	o	30.10	+0.04	50	46	0	NE	2	o	2	57	48	0.04		
Rochefort ...	29.96	56	NW	4	bc	29.97	-0.07	53	50	+1	NE	3	o	*	59	43	—		
Belfort ...	?	54	NE	3	c	?	?	55	?	-1	NE	3	c	*	61	52	—		
Lyons ...	29.98	50	N	2	T	29.97	+0.04	53	49	+4	NNW	1	o	*	53	49	0.20		
Nice ...	29.87	60	E	1	T	29.91	+0.07	58	57	-1	NNE	1	f	0	70	54	0.08		
Perpignan ...	29.92	52	NW	5	T	29.96	+0.07	50	49	-3	NW	3	T	*	53	48	0.35		
Biarritz ...	30.05	55	N	5	o	30.04	-0.02	53	52	+4	N	3	o	2	59	52	—		
Corunna ...	29.99	56	N	5	bc	30.04	+0.02	56	52	+2	N	5	bc	5	63	52	—		
Lisbon ...																			

For Explanation of Columns, see bottom of p. 4.

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

WEATHER CHARTS

for 8 a.m. on Tuesday, 5th May, 1891.

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:

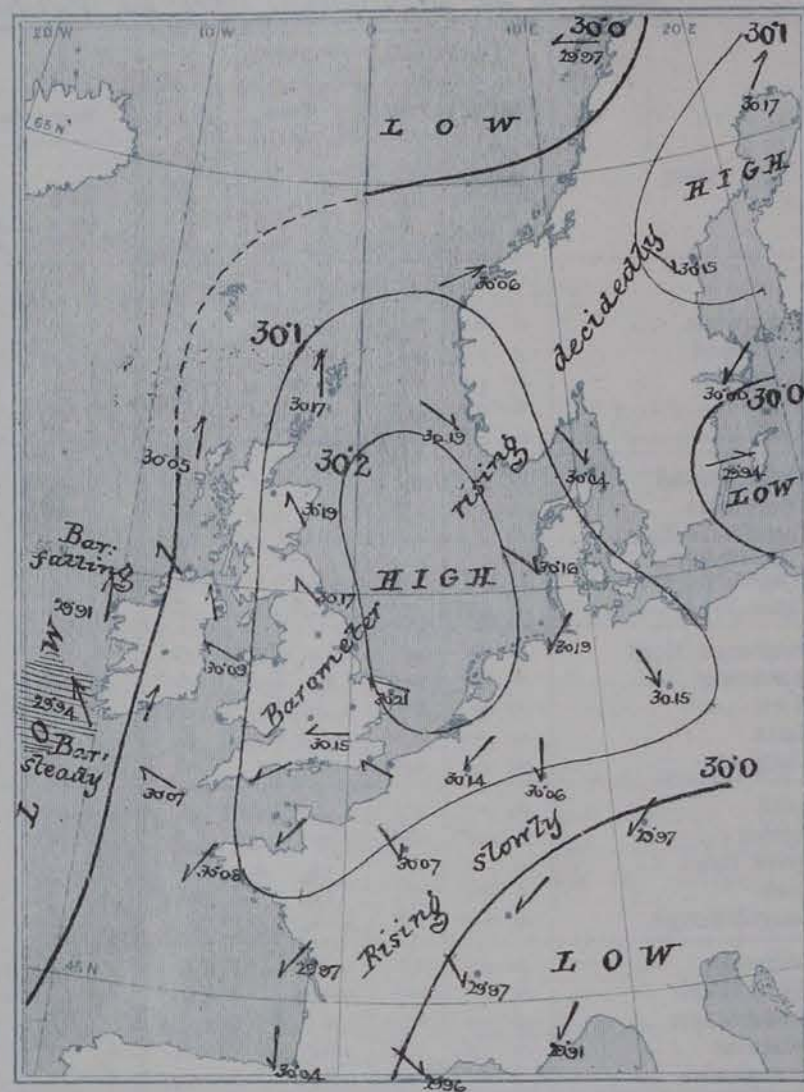
≡ = Rough. ≡ = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of May

During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.879
Stornoway	29.886
Wick	29.901
Nairn	29.908
Aberdeen	29.918
Leith	29.932
Shields	29.943
Spurn Head	29.956
York	29.962
Loughborough	29.973
Ardrossan	29.935
Mullaghmore	29.929
Donaghadee	29.947
Holyhead	29.956
Liverpool	29.961
Parsonstown	29.958
Valencia	29.963
Roche's Point	29.959
Pembroke	29.961
Scilly	29.974
Prawle Point	29.992
Jersey	29.989
Hurst Castle	29.982
Dover	29.970
LONDON	29.981
Oxford	29.981
Cambridge	29.976
Yarmouth	29.967



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.

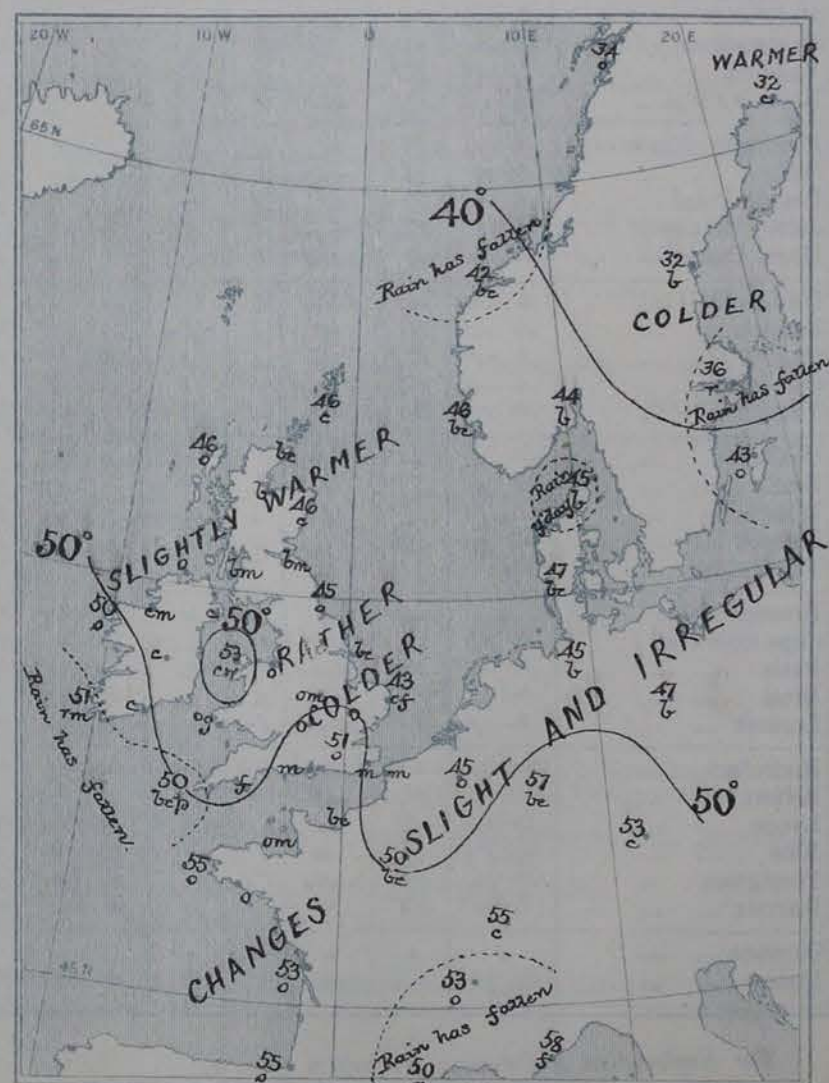
WEATHER is shown by Letters of the Beaufort Scale.

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 May.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	50.3	40.2	46.1	44.0	1.72
Stornoway	53.3	41.1	48.6	46.4	2.61
Wick.....	53.9	40.6	48.1	45.6	1.69
Nairn.....	56.3	42.2	48.6	45.4	1.61
Aberdeen.....	55.0	41.9	48.9	45.4	1.99
Leith.....	57.8	42.4	50.1	46.7	1.67
Shields.....	54.4	42.9	49.0	46.0	1.69
Spurn Head.....	54.3	45.1	49.3	47.2	1.57
York.....	59.6	42.2	49.8	46.7	1.85
Loughborough	61.7	42.6	51.1	47.7	2.09
Ardrossan	56.5	43.9	49.5	46.7	2.34
Mullaghmore.....	56.7	46.3	50.2	47.4	2.42
Donaghadee.....	56.0	44.2	49.6	47.5	2.26
Holyhead.....	56.2	46.2	50.5	48.0	1.90
Liverpool.....	58.0	45.0	50.8	46.9	1.84
Parsonstown	59.5	42.7	51.0	47.8	2.24
Valencia.....	58.1	46.3	52.8	49.7	3.20
Roche's Point.....	58.9	46.2	51.7	48.6	3.14
Pembroke.....	55.0	45.9	49.9	47.7	2.03
Scilly.....	56.3	48.2	52.7	50.3	1.73
Prawle Point.....	56.6	45.3	51.4	49.4	1.56
Jersey.....	59.4	47.2	53.6	50.5	1.87
Hurst Castle.....	54.6	45.7	51.6	49.9	1.78
Dover.....	57.0	46.7	52.5	49.3	1.79
LONDON.....	62.3	44.4	52.5	48.5	1.86
Oxford.....	60.6	43.4	50.6	47.5	1.95
Cambridge.....	62.0	42.0	51.7	48.5	1.90
Yarmouth.....	55.4	44.9	50.6	48.1	1.86

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: to 30.2 ins: over the North Sea and the neighbouring parts of our Islands and the Continent.
 Lowest, 29.9 ins: and less, off the west of Ireland, as well as over the Baltic and the northeastern parts of the Mediterranean.
 Gradients moderate in the west, slight elsewhere.
 Barometer still rising in the north and east, steady, or nearly so in the west.

TEMPERATURE

Highest, 58° at Nice, 56° at Lisbon, 50° to 52° over our southern counties and the north of France.
 Lowest, 32° at Haparanda and Haparand, 34° at Pozo, 36° at Stockholm, 43° at Yarmouth.
 It did not reach 60° at any of our own stations yesterday, but rose to between 60° and 65° over Germany and some parts of France, and to 78° at Nice.
 The first night was cold over Scotland.

WIND

S² and SE², moderate to strong in Ireland — light to moderate in Scotland. SE² light over England, ESE² to E² light in the Channel; NE² light, over the Bay of Biscay.

WEATHER

Fair generally, except in the extreme west of Ireland and the south of France — but cloudy or overcast in many places.
 Rain has fallen at several Scandinavian stations.

SEA

Rough at Valencia Island, moderate on our other southwestern coast, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The barometer has continued to rise over all but the extreme western parts of our Islands, and a well marked anticyclone has been developed over the North Sea, Great Britain and the English Channel; slight gradients for S² winds prevail over Ireland.
 The anticyclone does not seem to be giving way much on its western side, so that although temperature has not changed much at present fine, bright, warm weather seems likely to prevail over Great Britain and the east of Ireland, and some rain in the far west.

FORECASTS

For the 24 hours ending at NOON on 6TH May 1891.

DISTRICTS.

FORECASTS.

- | | | |
|---|------------------|--|
| 0 | SCOTLAND NORTH | S ² breezes, moderate; fine to showery. |
| 1 | SCOTLAND EAST | { SE ² and S ² winds, moderate; fine, warmer. |
| 2 | ENGLAND N.E. | |
| 3 | ENGLAND EAST | { E ² and SE ² winds, light; fine, warm day, rather cold at night. |
| 4 | MIDLAND COUNTIES | |
| 5 | ENGLAND SOUTH | |



DISTRICTS.

FORECASTS.

- | | | |
|----|---------------|--|
| 6 | SCOTLAND WEST | { S ² breezes, moderate; fine, warm. |
| 7 | ENGLAND N.W. | |
| 8 | ENGLAND S.W. | |
| 9 | IRELAND NORTH | { S ² winds, strong and showery in west, moderate, fair and warm in east. |
| 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:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.87	50	45	WNW	2	bc	2		Holyhead ...	30.04	53	49	WNW	1	bc
Sumburgh Head ...	29.92	46	43	WNW	3	bc	3		Valencia ...	30.04	56	50	SW	3	c
Stornoway ...	29.97	50	47	S	3	bc	3		Scilly ...	30.05	50	?	W	3	bc
Aberdeen ...	30.01	46	43	SE	2	chp	2		Jersey ...	30.08	53	52	WNW	3	bc
Shields ...	30.00	49	45	E	2	bc	2		Dungeness ...	30.02	51	49	WNW	4	c
Ardrossan ...	29.99	52	45	W	3	bc	2		London ...	30.03	57	53	WNW	1	o
Malin Head ...	29.98	51	48	WNW	1	bc	1		Yarmouth ...	30.01	53	50	NE	2	bc
Mullaghmore ...	30.00	48	45	WN	2	bc	2		Rochefort ...	29.97	58	53	NW	4	bc
Belmullet ...							*								

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

Weather in morning fine and bright over the Mediterranean and many parts of southeastern Europe, as well as over the Baltic Provinces, north Germany and the Netherlands; fair over the British Islands and France, cloudy and unsettled over the northern half of Russia. Rain later in several parts of Scandinavia and in the south of France, slight showers at Scilly and Valencia Island.

Temperatures lower over southern, central, and northern Europe than of late, morning readings exceeding 60° over Algeria, Italy and southeastern Europe, lower elsewhere; below 50° in many parts of the United Kingdom, Scandinavia, and the Baltic, and as low as 15° at Archangel, 25° at Haparanda and Uleaborg, 27° at Kuopio, 39° at Helsingfors and Hangö. Rising during day to between 48° and 59° over the United Kingdom to 68° over Germany, to 70° at Nice.

Wind light from between W and NW over the British Isles, from N. in France, and from NE in Spain; very variable elsewhere — cyclonic over northern and southern Europe, anticyclonic over Germany, Austria, and southern Russia. Backing to the SW and SE later in the west of our Islands, but remaining light.

Barometer highest 30.0 in and more to 29.9 in a broad band of high pressure extending from the Atlantic across western and central Europe to southern Russia, the Black Sea, and Asia Minor. The band containing three maxima — one over the Atlantic, another over the south of Russia and the Crimea, and the third over north Germany. The Atlantic anticyclone moving northwards later, and increasing in intensity, but barometer showing some tendency to fall in the west of Ireland.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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

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 *Wednesday, 6th May, 1891.*
 Issued by the Meteorological Office, 63, Victoria Street, London. *R. H. SCOTT, Secretary.*

STATIONS.		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 5.)	SHADE TEMP.		Amount of Rainfall.	
				Reading at 32° F. and Sea Level.	Dry.		Dirac.	Force. (0 to 12.)	Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.			Dirac.	Force. (0 to 12.)		Max.	Min.
SCANDINAVIA.	Haparanda ...	30.20	27	2	0	bc	30.18	+0.01	38	31	+1	S	2	bc	*	87	23	-	
	Hernösand ...	30.22	33	2	0	b	30.23	+0.08	43	39	+11	S	2	bc	*	46	28	-	
	Stockholm ...	30.25	35	N	2	0	30.33	+0.33	39	35	+3	2	0	b	*	41	32	-	
	Wisby ...	30.14	40	ESE	4	0	30.24	+0.30	37	35	-6	N	4	0	*	43	36	-	
	Bodö ...	30.01	40	E	2	1	30.01	+0.04	40	38	+6	SSW	2	1	2	43	24	0.20	
	Christiansund	30.20	43	W	7	0	30.28	+0.22	40	39	-2	W	5	0	4	45	37	0.39	
	Skudesnaes ...	30.29	42	NW	4	0	30.29	+0.10	45	41	0	E	2	0	2	48	37	-	
	Christiania Fjord (Færdier)	30.21	45	2	0	bc	30.30	+0.26	44	42	0	S	2	0	1	50	41	-	
	Skagen (The Scaw)	30.21	44	N	1	0	30.28	+0.24	44	41	-1	SE	1	0	0	54	39	-	
	Fanö ...	30.24	39	NW	2	0	30.24	+0.08	48	45	+1	E	2	0	*	52	36	-	
BRITISH ISLANDS.	Sumburgh Head	30.19	45	SSE	4	0	30.13	-0.04	45	44	-1	SSE	4	0	5	47	39	-	
	Stornoway ...	30.00	50	E	2	0	29.96	-0.09	47	47	+1	SW	4	1	4	55	44	0.02	
	Wick ...	30.12	45	E	4	0	30.08	-0.06	45	44	-1	S	6	0	5	52	42	-	
	Nairn ...	30.04	52	SE	2	0	30.04	-0.06	50	46	+4	ESE	1	m	1	59	43	-	
	Aberdeen ...	30.18	44	SSE	4	0	30.16	-0.03	43	41	-2	SSE	4	0	4	48	43	-	
	Leith ...	30.11	53	S	2	0	30.11	-0.02	47	43	-4	2	0	0	*	59	36	-	
	Shields ...	30.17	45	ESE	4	0	30.16	-0.01	45	42	-3	SE	3	m	3	48	36	-	
	Spurn Head ...	30.13	46	E	5	bc	30.16	-0.02	46	43	-3	E	3	bc	3	48	42	-	
	York ...	30.13	51	E	1	bc	30.19	+0.00	46	43	-3	E	1	0	*	57	35	-	
	Loughborough	30.14	55	E	1	0	30.18	+0.03	41	41	-7	N	1	omw	*	65	34	-	
GERMANY & HOLLAND.	Ardrossan ...	30.06	50	SSW	2	0	30.06	-0.03	50	47	-3	SSE	2	om	2	59	47	-	
	Malin Head ...	29.94	54	SSE	4	0	29.94	-0.04	49	48	+1	S	4	op	1	56	47	0.11	
	Mullaghmore ...	29.94	54	SSE	5	0	29.93	-0.05	51	50	+2	SSE	5	op	3	57	49	0.05	
	Belmullet ...	29.88	51	S	5	0	29.91	+0.00	51	51	+1	SSW	3	0	*	53	50	0.16	
	Donaghadee ...	30.07	49	SSW	3	0	30.07	-0.03	48	46	+2	SSW	3	0	1	54	45	-	
	Liverpool (Bidston)	30.11	53	ESE	3	0	30.12	+0.01	50	45	+5	SE	4	0	3	56	43	-	
	Holyhead ...	30.04	53	SSW	1	0	30.09	+0.00	50	47	+3	S	2	0	2	57	44	-	
	Parsonstown ...	29.99	52	SE	1	0	29.99	-0.02	53	51	+2	SE	1	0	*	59	47	0.03	
	Valencia ...	29.93	52	SSE	6	om	29.97	+0.03	52	51	+1	SSE	3	0	3	52	49	0.46	
	Roche's Point...	30.01	50	S	5	1	29.99	-0.03	50	49	-1	SSE	4	m	4	52	48	0.25	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.10	48	W	1	0	30.10	+0.00	50	49	+1	ESE	2	bc	2	52	44	-	
	Scilly ...	30.10	53	SSE	3	0	30.08	+0.01	53	51	+2	S	3	m	4	56	49	-	
	Prawle Point...	30.12	50	SW	2	0	30.13	+0.01	52	49	+3	SSE	1	om	0	52	41	-	
	Jersey (St. Aubin's)	30.10	55	N	3	0	30.12	+0.01	49	47	+2	NW	3	om	3	61	45	-	
	Hurst Castle ...	30.12	53	SE	2	0	30.12	-0.02	45	44	-1	ESE	2	m	1	59	38	-	
	Dungeness ...	30.08	50	E	5	bc	30.05	-0.08	48	47	-1	NE	2	0	1	53	44	-	
	London ...	30.13	53	E	2	0	30.11	-0.04	45	43	-2	NE	1	0	*	60	41	-	
	Oxford ...	30.13	51	ESE	2	0	30.15	+0.00	40	39	-1	NE	2	0	*	58	35	-	
	Cambridge ...	30.17	51	E	1	0	30.12	-0.06	50	47	-3	NE	1	0	*	64	33	-	
	Yarmouth ...	30.18	46	E	4	0	30.13	-0.08	48	46	+2	E	3	0	3	49	41	-	
GERMANY & HOLLAND.	Cuxhaven ...	30.21	47	N	2	0	30.23	+0.04	46	44	+2	E	3	0	*	51	46	-	
	Berlin ...	30.17	56	NE	4	0	30.20	+0.05	50	46	+4	NE	3	0	*	63	41	-	
	Wiesbaden ...	*	*	*	*	*	30.00	-0.06	57	50	+7	NE	2	0	*	70	54	-	
	Munich ...	29.99	59	E	4	0	29.96	-0.03	55	51	+4	NE	5	0	*	63	50	-	
	The Helder ...	30.19	47	NE	3	0	30.10	-0.09	49	46	+3	E	2	0	3	50	46	-	
	Brussels (8 a.m.)	*	*	*	*	*	30.00	-0.14	53	51	+2	E	1	0	*	68	?	0.28	
	Cape Gris Nez	30.10	47	E	4	0	30.03	-0.08	48	47	+1	NE	4	0	2	54	45	-	
	Paris ...	30.04	56	N	2	0	30.01	-0.06	51	48	+3	NW	2	0	*	62	50	0.12	
	Brest ...	30.08	53	NW	2	0	30.12	+0.04	48	47	-1	2	0	0	54	41	-		
	Lorient ...	30.09	57	W	2	0	30.11	+0.01	50	45	+5	NE	1	0	3	65	50	-	
FRANCE AND BELGIUM.	Rochefort ...	30.03	59	NW	4	0	30.04	+0.07	54	?	+1	NNE	4	0	*	64	45	-	
	Belfort ...	29.94	57	N	3	0	?	?	54	53	-1	SSW	3	0	*	59	52	0.59	
	Lyons ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-	
	Nice ...	29.93	57	SW	1	0	29.95	+0.04	57	50	+7	NW	2	0	0	66	50	-	
	Perpignan ...	29.96	58	NW	4	0	30.01	+0.05	55	50	+5	W	4	0	*	65	48	-	
	Biarritz ...	30.07	56	NW	5	0	30.11	+0.07	55	51	+4	NW	4	0	2	59	54	-	
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-	
	Lisbon ...	30.08	55	NW	4	0	30.10	+0.06	56	52	+4	N	4	0	3	64	52	-	
	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-	
	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-	

For Explanation of Columns, see bottom of p. 4.

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

WEATHER CHARTS

for 8 a.m. on Wednesday, 6th May, 1891.

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:

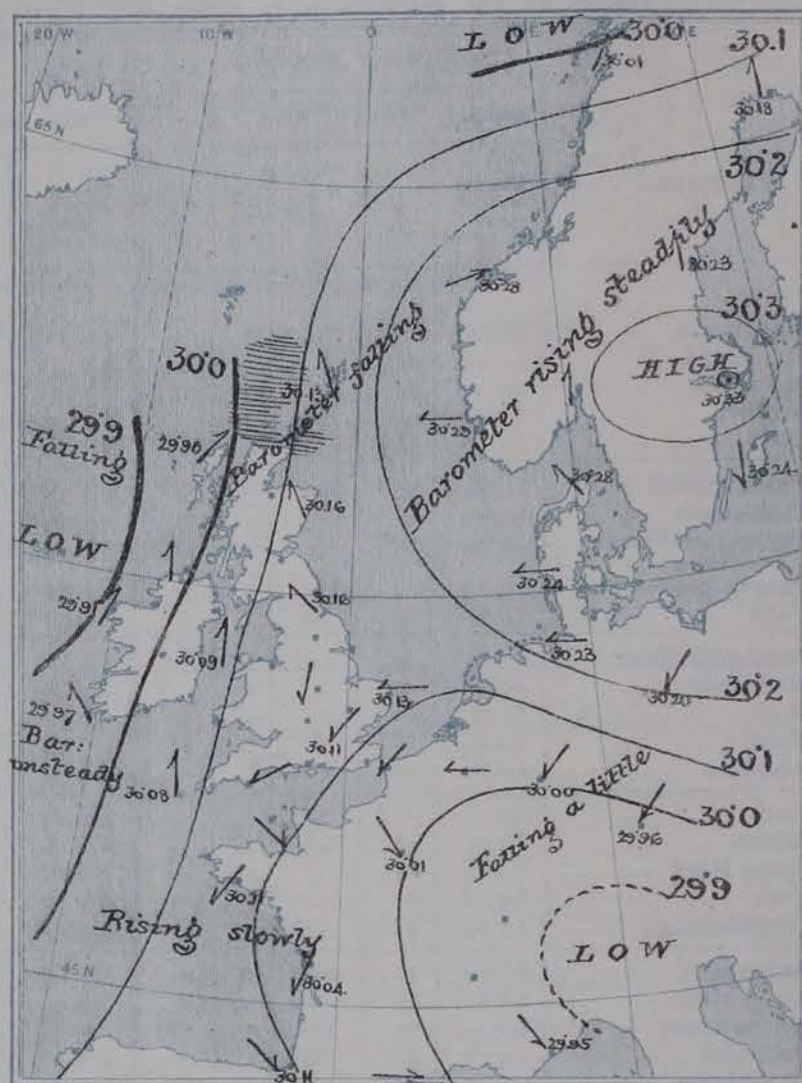
≡ = Rough. ≡ = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of May

During the 20 Years: 1871—1890.

STATIONS.	MEAN READING.
Sumburgh Head	29.879
Stornoway	29.886
Wick	29.901
Nairn	29.908
Aberdeen	29.918
Leith	29.932
Shields	29.943
Spurn Head	29.956
York	29.962
Loughborough	29.973
Ardrossan	29.985
Mullaghmore	29.929
Donaghadee	29.947
Holyhead	29.956
Liverpool	29.961
Parsonstown	29.958
Valencia	29.963
Roche's Point	29.959
Pembroke	29.961
Scilly	29.974
Prawle Point	29.992
Jersey	29.989
Hurst Castle	29.982
Dover	29.970
LONDON	29.981
Oxford	29.981
Cambridge	29.976
Yarmouth	29.967



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.

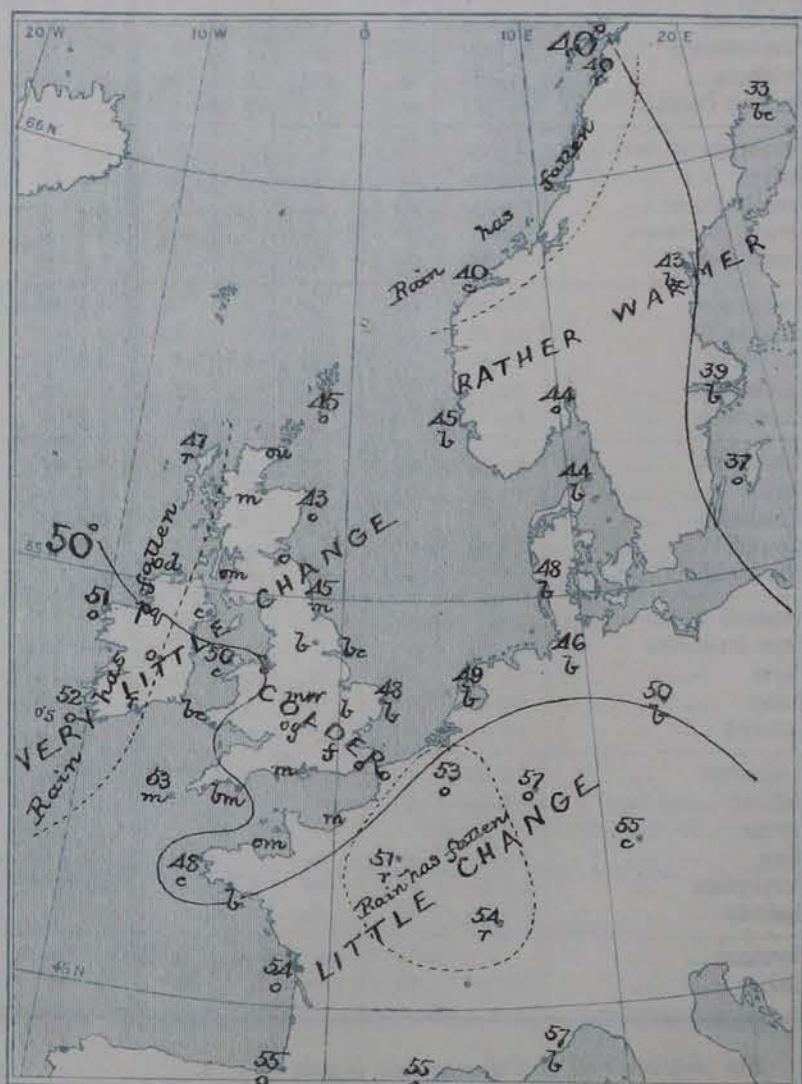
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of May.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	50.3	40.2	46.1	44.0	1.72
Stornoway	53.3	41.1	48.6	46.4	2.61
Wick	53.9	40.6	48.1	45.6	1.69
Nairn	56.3	42.2	48.6	45.4	1.61
Aberdeen	55.0	41.9	48.9	45.4	1.99
Leith	57.8	42.4	50.1	46.7	1.67
Shields	54.4	42.9	49.0	46.0	1.69
Spurn Head	54.3	45.1	49.3	47.2	1.67
York	59.6	42.2	49.8	46.7	1.85
Loughborough	61.7	42.6	51.1	47.7	2.09
Ardrossan	56.5	43.9	49.5	46.7	2.34
Mullaghmore	56.7	46.3	50.2	47.1	2.42
Donaghadee	56.0	44.2	49.6	47.5	2.26
Holyhead	56.2	46.2	50.5	48.0	1.90
Liverpool	58.0	45.0	50.8	46.9	1.84
Parsonstown	59.5	42.7	51.0	47.8	2.24
Valencia	58.1	46.3	52.8	49.7	3.20
Roche's Point	58.9	46.2	51.7	48.8	3.14
Pembroke	55.0	45.9	49.9	47.7	2.03
Scilly	56.3	48.2	52.7	50.3	1.73
Prawle Point	56.6	45.3	51.4	49.4	1.56
Jersey	59.4	47.2	53.6	50.5	1.87
Hurst Castle	54.6	45.7	51.6	49.9	1.78
Dover	57.0	46.7	52.5	49.3	1.79
LONDON	62.3	44.4	52.5	48.5	1.86
Oxford	60.6	43.4	50.6	47.5	1.95
Cambridge	62.0	42.0	51.7	48.5	1.90
Yarmouth	55.4	44.9	50.6	48.1	1.86

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. to 30.2 in. over Scandinavia and Denmark; (2) 30.1 in. and more over the Spanish Peninsula, exceeding 30.0 in. in a few places over England, and the Bay of Biscay.
 Lowest, (1) 30.0 in. and less over the east of France, South Germany, and Switzerland; (2) about 29.9 in. and less, off our extreme northwest coast.
 Gradients slight in the east, moderate elsewhere.
 Barometer falling in extreme northwest and in France, steady over England.

TEMPERATURE

Highest, 57° at Nice and Marseilles, 56° at Lisbon, 53° at Sicily, 51° at Paris, 50° at Havre and Berlin, 47° at Stockholm.
 Lowest, 33° at Haparanda, 37° at Vindby, 39° at Stockholm, 40° at Oxford, 41° at Loughborough.
 During the night a sharp frost has occurred over the grass over our south-midland counties.

WIND

Moderate to fresh from the S.W. over Ireland and Scotland, light from E. and NE over the southeastern half of England, and from between NE and NW. over France; E. over Denmark and the south of Norway, S.W. to S. over the northern part of Norway and Sweden.

WEATHER

Dull and unsettled, with rain locally over Ireland and Scotland, and over France, fine and bright over Scandinavia, the North Sea and greater part of England, but hazy and dull at some southeastern stations.
 The rainfall since yesterday has been considerable over some parts of France and Belgium, the south of Ireland, and Norway.

SEA

Rather rough in the north, moderate off our southwestern coast, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone which lay over the North Sea and Great Britain yesterday has reached Scandinavia, Denmark, and the Baltic, where the barometer has risen quickly. Over France and Belgium on the one hand, and at our extreme northern stations on the other, the barometer is falling a little, and in each of these regions there are shallow disturbances causing dull unsettled weather and rain. Over the greater part of our islands, however, the barometer is steady, and over England the weather is at present fair and quiet.

FORECASTS

For the 24 hours ending at NOON on 7th May

1891.

DISTRICTS.

FORECASTS.

- | | | |
|---|------------------|---|
| 0 | SCOTLAND NORTH | S ² and S.W ² winds, fresh or strong; rain at times. |
| 1 | SCOTLAND EAST | { S.E ² and S ² winds, moderate or light; fair, warmer. |
| 2 | ENGLAND N.E. | |
| 3 | ENGLAND EAST | { Very light and variable breezes; fair generally, haze or fog at times. Very cold tonight. |
| 4 | MIDLAND COUNTIES | |
| 5 | ENGLAND SOUTH | |

DISTRICTS.

FORECASTS.

- | | | |
|----|---------------|---|
| 6 | SCOTLAND WEST | { Same as No. 0. |
| 7 | ENGLAND N.W. | |
| 8 | ENGLAND S.W. | S ² breezes, moderate; fair. |
| 9 | IRELAND NORTH | { S ² breezes, fresh or strong; dull, rain at times. |
| 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:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnes ...	30.27	48	41	NW	6	bc	3	Holyhead ...	30.10	56	47	SW	1	c	1
Sumburgh Head ...	30.20	46	45	SSW	3	0	3	Valencia ...	29.94	51	51	SE	4	rm	6
Stornoway ...	30.05	53	49	SE	3	0	3	Scilly ...	30.08	56	50	SSE	4	bc	4
Aberdeen ...	30.20	47	44	SSW	3	c	3	Jersey ...	30.12	57	52	NW	3	c	3
Shields ...	30.18	48	44	ESE	4	0	3	Dungeness ...	30.12	51	50	E	5	m	4
Ardrossan ...	30.06	58	55	ESE	2	0	1	London ...	30.14	57	48	C	3	bc	4
Malin Head ...	29.96	54	46	SSW	4	0	1	Yarmouth ...	30.21	57	46	E	4	bc	4
Mullaghmore ...	29.95	54	48	SSE	5	0	2	Rochefort ...	30.03	61	59	NW	3	0	4
Belmullet ...	29.89	51	51	S	5	om	*								

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

Weather in morning fine and bright over SE^m Europe and south of Russia, and at many stations over Scandinavia, Denmark and the northeast of our Islands, cloudy or overcast in the western parts of the United Kingdom and France, with the northern half of Spain; rain falling at Barcelona, Perpignan, Scilly and Valencia Island, fog and haze prevalent in the south and east of England. Rain later in considerable quantity in some parts of France, Belgium, Ireland and Norway, but weather fine and dry over England.

Temperature fallen over Russia, Germany, the Baltic and eastern half of England; morning readings exceeding 60° on the southern and eastern shores of the Mediterranean and Adriatic and at Buda Pesth - highest of all, 67° at Trieste, 66° at Brindisi. Lower elsewhere, below 50° over the greater part of NW^m and northern Europe, below 40° in Lapland and Sweden, and as low as 20° at Archangel, 28° at St. Petersburg, 30° at Kiofio, 32° at Haparanda and Hernösand. Rising later to between 55° and 61° over England, to rather higher values over France and Germany, and to 70° at Wiesbaden.

Wind moderate to fresh from S. over the western and northern parts of the British Isles, SW² at Christiansund, NW² on the E^m shores of the North Sea, N² over Germany, NE² over the greater part of France and Spain; very variable over the Mediterranean, SE^m and E^m Europe. Blowing strongly from S. at some of our western stations later.

Barometer highest 30.2 ins. to 30.0 ins. in a large and complex high pressure area covering the whole of N^m, NW^m and W^m Europe, lowest about 29.8 ins. in a depression lying over Servia, Bosnia and Herzegovina, and apparently below 29.9 ins. off the extreme W. of Ireland. Falling slightly at our western stations later ^{and in France} rising over Sweden and Norway.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

* AN ASTERISK is inserted in all places for which information is not usually received.
The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark the observations are taken at 8 p.m. (Christiania time).

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

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

„ Weekly „ „ „ £1 10 0 „

DAILY WEATHER REPORT.

for *Thursday, 7th May, 1891.*
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
	Reading at 32° F. and Sea Level.	Dry.	Dirac.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirac.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...	30.08	31	2	0	bc	30.09	-0.09	36	35	+3	W	2	0	*	37	21	-
	Hernösand ...	30.21	41	2	0	b	30.23	-0.02	43	37	0	W	2	0	*	52	28	-
	Stockholm ...	30.31	38	SW	2	b	30.29	-0.02	46	41	+5	W	2	0	*	52	28	-
	Wisby ...	30.24	36	SE	4	b	30.25	+0.01	39	36	+3	N	4	0	*	39	34	-
	Bodö ...	30.08	41	SW	2	0	30.21	+0.13	39	35	-4	NE	2	0	1	41	36	0.08
	Christiansund	30.27	44	ESE	1	0	30.17	-0.10	46	41	+5	SE	1	0	3	46	40	0.04
	Skudesnaes ...	30.26	44	SSE	2	0	30.18	-0.08	46	42	+4	SE	2	0	4	52	39	-
	Christiania Fjord (Færder)	30.27	45	W	3	b	30.26	-0.01	45	42	+3	NE	2	0	1	48	43	-
	Skagen (The Scaw)	30.27	44	2	0	b	30.23	-0.04	46	44	+2	SW	1	0	0	55	41	-
	Fanö ...	30.19	44	E	4	b	30.10	-0.09	42	41	-1	E	6	0	*	57	41	-
BRITISH ISLANDS.	Sumburgh Head	30.48	45	SSE	5	C	29.97	-0.51	45	46	0	SSE	4	0	6	48	39	-
	Stornoway ...	29.94	48	SW	3	r	29.81	-0.13	47	47	0	SW	3	0	3	50	44	0.10
	Wick ...	30.02	47	SW	6	0	29.91	-0.11	42	40	-2	S	4	0	4	48	40	-
	Nairn ...	29.97	56	2	0	m	29.88	-0.09	51	48	+3	2	0	0	0	61	47	0.01
	Aberdeen ...	30.10	44	SSE	3	C	29.96	-0.14	46	44	+2	SSE	3	0	3	48	42	-
	Leith ...	30.04	52	N	1	0	29.94	-0.10	46	45	-1	NE	2	0	*	55	46	0.02
	Shields ...	30.09	45	ESE	3	bm	29.97	-0.12	47	43	+4	ESE	3	0	3	47	40	-
	Spurn Head ...	30.08	47	ESE	3	b	29.97	-0.11	50	47	+3	NE	2	0	2	50	41	-
	York ...	30.00	56	E	1	b	30.00	0.00	47	45	+2	2	0	*	61	37	-	
	Loughborough	30.06	61	E	2	bc	30.01	-0.05	42	41	-1	HW	1	0	*	66	37	-
GERMANY & HOLLAND.	Ardrossan ...	30.10	52	2	0	0	29.91	-0.19	49	48	-1	S	2	0	2	57	47	0.12
	Malin Head ...	29.93	52	SSE	2	0	29.86	-0.07	49	47	-2	SSE	3	0	2	53	46	0.19
	Mullaghmore ...	29.93	52	WSW	2	p	29.87	-0.06	49	46	-3	S	2	0	2	59	44	0.16
	Belmullet ...	29.93	52	SW	4	0	29.84	-0.09	50	49	-1	SW	2	0	*	55	47	0.09
	Donaghadee ...	30.01	52	SW	3	bc	29.93	-0.08	50	48	+2	SE	3	0	1	54	47	0.05
	Liverpool (Bidston)	30.05	55	WSW	1	bc	29.97	-0.08	54	49	+5	SW	1	0	1	62	46	-
	Holyhead ...	30.05	52	SSW	2	og	29.95	-0.10	48	47	-1	SW	3	0	2	58	47	0.02
	Portsmouth ...	29.97	53	2	0	0	29.89	-0.08	48	47	-1	2	0	*	54	42	0.29	
	Valencia ...	30.00	54	WSW	2	bc	29.87	-0.13	51	49	+2	SSE	1	0	2	57	45	-
	Roche's Point ...	30.00	50	SSW	3	f	29.91	-0.09	50	50	0	SSW	3	0	3	54	48	0.01
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.05	49	S	2	r	29.95	-0.10	49	49	0	S	2	0	3	52	47	0.04
	Scilly ...	30.06	54	S	3	0	29.97	-0.09	53	53	0	S	4	0	5	57	51	-
	Prawle Point ...	30.08	50	W	3	bc	30.00	0.00	55	52	+3	SSW	1	0	0	55	46	-
	Jersey (St. Aubin's)	30.08	53	WSW	3	bm	30.03	-0.05	49	48	-1	W	3	0	3	67	43	-
	Hurst Castle ...	30.05	52	WSW	3	b	29.99	-0.06	53	50	+3	WSW	1	0	1	61	43	-
	Dungeness ...	30.01	50	2	0	r	29.94	-0.07	50	46	+4	N	3	0	1	54	44	-
	London ...	30.02	56	E	1	og	29.98	-0.04	55	48	+7	ESE	1	0	*	65	44	-
	Oxford ...	30.05	53	NE	1	b	30.00	-0.05	50	47	-3	2	0	*	63	40	-	
	Cambridge ...	30.05	56	E	1	bc	29.99	-0.06	49	47	-2	N	1	0	*	67	35	-
	Yarmouth ...	30.05	49	NE	4	b	29.96	-0.09	48	46	-2	WSW	2	0	3	52	41	-
PENINSULA.	Cuxhaven ...	30.13	52	E	4	b	30.08	-0.05	47	45	+2	ESE	4	0	*	58	46	-
	Berlin ...	30.10	58	ESE	4	bc	30.05	-0.05	53	49	+4	ESE	4	0	*	64	46	-
	Wiesbaden ...	*	*	*	*	*	29.94	-0.06	56	54	-2	2	0	*	68	50	0.24	
	Munich ...	29.94	57	SW	4	r	29.96	0.02	57	55	+2	W	2	0	*	66	52	0.08
	The Helder ...	30.04	52	NE	2	C	29.94	-0.10	50	48	+2	ESE	1	0	2	55	48	-
	Brussels (9 a.m.)	*	*	*	*	*	29.89	-0.05	53	52	-1	WSW	1	0	*	59	50	0.16
	Cape Gris Nez	30.00	48	NE	3	0	29.93	-0.07	47	46	-1	NE	3	0	2	52	46	-
	Paris ...	30.00	54	SE	1	r	29.97	-0.03	48	47	-1	W	1	0	*	63	46	0.43
	Brest ...	30.10	58	W	1	C	30.08	-0.02	52	51	+1	W	1	0	2	63	48	-
	Lorient ...	30.08	54	WSW	4	C	30.05	-0.03	49	46	-3	ESE	1	0	3	61	46	-
PENINSULA.	Roche fort ...	30.05	58	W	4	b	30.03	-0.02	53	52	-1	WSW	3	0	*	64	43	-
	Belfort ...	?	56	SW	3	0	?	?	54	50	-4	W	2	0	*	59	47	-
	Lyons ...	29.99	?	WSW	2	?	30.00	0.01	51	48	-3	WSW	2	0	*	64	50	-
	Nice ...	29.93	56	WSW	2	C	29.80	-0.13	59	51	+8	ESE	1	0	0	66	52	-
	Perpignan ...	29.99	60	W	4	0	29.98	-0.01	57	51	+6	W	3	0	*	66	55	-
	Biarritz ...	30.13	57	W	3	0	30.07	-0.06	53	49	-4	SW	3	0	2	61	48	-
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lisbon ...	30.13	59	N	3	b	30.09	-0.04	57	53	+4	N	4	0	*	68	54	-

For Explanation of Columns, see bottom of p. 1.

Erratum, — The observations published as Brussels in yesterday's report were subsequently found to be those for Lyons

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

WEATHER CHARTS

for 8 a.m. on Thursday, 7th May, 1891.

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:

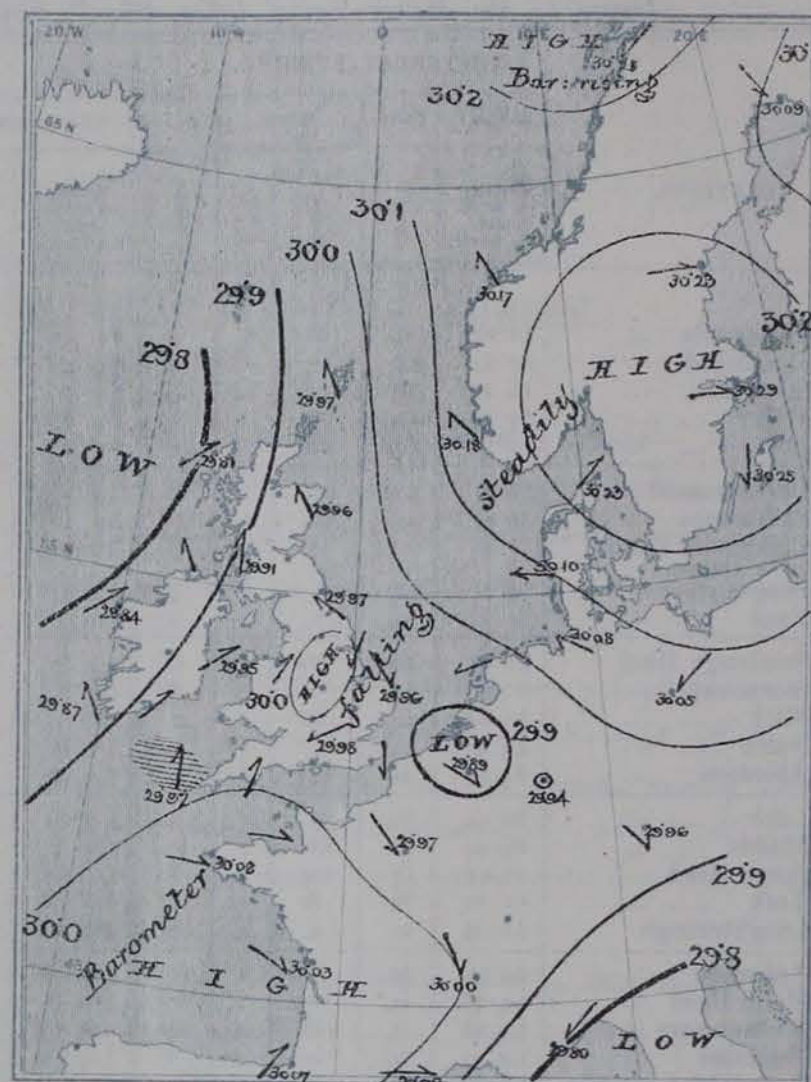
☼ = Rough. ☼ = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of May

During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.879
Stornoway	29.880
Wick	29.901
Nairn	29.908
Aberdeen	29.918
Leith	29.932
Shields	29.943
Spurn Head	29.956
York	29.962
Loughborough	29.973
Ardrossan	29.935
Mullaghmore	29.929
Donaghadee	29.947
Holyhead	29.955
Liverpool	29.961
Parsonstown	29.958
Valencia	29.963
Roche's Point	29.959
Pembroke	29.961
Scilly	29.974
Prawle Point	29.992
Jersey	29.989
Hurst Castle	29.983
Dover	29.970
LONDON	29.981
Oxford	29.981
Cambridge	29.976
Yarmouth	29.967



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 May.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	50.3	40.2	46.1	44.0	1.72
Stornoway	53.3	41.1	48.6	46.4	2.61
Wick.....	53.9	40.6	48.1	45.6	1.69
Nairn	56.3	42.2	48.6	45.4	1.51
Aberdeen	55.0	41.9	48.9	45.4	1.99
Leith.....	57.8	42.4	50.1	46.7	1.67
Shields	54.4	42.9	49.0	46.0	1.69
Spurn Head.....	54.3	45.1	49.3	47.2	1.57
York	59.6	42.2	49.8	46.7	1.85
Loughborough	61.7	42.6	51.1	47.7	2.09
Ardrossan	56.5	43.9	49.5	46.7	2.34
Mullaghmore	56.7	46.3	50.2	47.4	2.42
Donaghadee.....	56.0	44.2	49.6	47.5	2.26
Holyhead.....	55.2	46.2	50.5	48.0	1.90
Liverpool.....	58.0	45.0	50.8	46.9	1.84
Parsonstown	59.5	42.7	51.0	47.8	2.24
Valencia	58.1	46.8	52.8	49.7	3.20
Roche's Point.....	58.9	46.2	51.7	48.8	3.14
Pembroke.....	55.0	45.9	49.9	47.7	2.03
Scilly	56.3	48.2	52.7	50.3	1.73
Prawle Point	56.6	45.3	51.4	49.4	1.56
Jersey	59.4	47.2	53.6	50.5	1.87
Hurst Castle	58.6	45.7	51.6	49.9	1.78
Dover	57.0	46.7	52.5	49.3	1.79
LONDON	62.3	44.4	52.5	48.5	1.86
Oxford	60.6	43.4	50.8	47.5	1.95
Cambridge	62.0	42.0	51.7	48.5	1.90
Yarmouth	55.4	44.9	50.6	48.1	1.86

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. to 30.0 in. over Scandinavia and the eastern part of the North Sea; 30.1 in. to 30.0 in. over Spain, the Bay of Biscay and western parts of France.
Lowest, 29.9 in. and less, off our northwestern coast, and in a small depression near Brussels; 29.8 in. and less, over the Gulf of Genoa.
Gradients moderate and variable. Barometer still falling except at Bodo.

TEMPERATURE

Highest, 59° at Nice, 57° at Munich and Perpignan, 55° in London, 51° at Valencia Island and Nain.
Lowest, 36° at Stapanawa, 39° at Bodo, 42° at Wick, Loughborough, and Tams, 48° at Paris.
It rose during yesterday to between 60° and 67° over the greater part of England, and fell again to between 35° and 40° in many places during the night.

WIND

Light to moderate from the S^W on our western and northern coasts, light from the N^W in the east; light W^W to NW^W over France, E over Germany and Holland.

WEATHER

Fine and bright over Scandinavia, the eastern parts of England, and the west of France, dull and foggy on our southwestern coasts, rainy in the north, and also in Holland, dull over Germany and the east of France. The rainfall measured this morning was general but not heavy in the west, and considerable over the northeast of France, Belgium and Western Germany. In London the clouds cleared off slowly after 8 pm yesterday, but the appearance even now is not settled. A solar halo is visible at Oxford.

SEA

Rough at Lumburg Head and Scilly, moderate at Wick, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Since yesterday there has been a slight fall of the barometer over nearly the whole of our area, varying in amount from 0.2 in. on our northeast coasts, to only a few hundredths in the west of France. The relative distribution of pressure is still complex, and as the barometer continues to fall steadily in the west, the complexity seems likely to increase, and showery weather spread gradually all over the Kingdom, with thunder in places.

FORECASTS

For the 24 hours ending at NOON on 8TH MAY 1891.

DISTRICTS.

FORECASTS.

- | | | |
|---|------------------|---|
| 0 | SCOTLAND NORTH | S ^W breezes, moderate; some rain. |
| 1 | SCOTLAND EAST | SE ^W or S ^W breezes, light; fine and warm, rainy later. |
| 2 | ENGLAND N.E. | |
| 3 | ENGLAND EAST | Same as N° 5. |
| 4 | MIDLAND COUNTIES | Varying S ^W airs; fine, warm, possibly rain later. |
| 5 | ENGLAND SOUTH | Varying N ^W breezes, light; fine, warm uncertain later. |

DISTRICTS.

FORECASTS.

- | | | |
|----------|---------------|--|
| 6 | SCOTLAND WEST | Same as N° 0. |
| 7 | ENGLAND N.W. | |
| 8 | ENGLAND S.W. | |
| 9 | IRELAND NORTH | S ^W breezes, moderate; mild, showery. |
| 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.		WIND		WEA.	SEA		BAR.	THER.		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	30.27	52	45	WSW	2	bc	2	Holyhead ...	30.08	58	50	SW	2	b	2
Sumburgh Head ...	30.12	47	46	SSW	5	c	6	Valencia ...	30.01	57	55	SW	3	cm	4
Stornoway ...	29.95	50	49	SW	5	r	5	Scilly ...	30.07	56	54	S	3	0	4
Aberdeen ...	30.12	48	44	SSE	4	bq	4	Jersey ...	30.11	55	48	NW	3	bc	5
Shields ...	30.13	47	43	ESE	3	bm	3	Dungeness ...	30.03	53	49	NNE	2	c	1
Ardrossan ...	30.04	56	52	SSW	3	0	2	London ...	30.04	62	52	NE	2	c	*
Mulin Head ...	29.93	53	52	SSE	4	0	1	Yarmouth ...	30.08	52	48	ESE	3	b	5
Mullaghmore ...	29.93	57	53	WSW	3	0	2	Rocheport ...	29.98	63	54	NW	3	0	*
Belmullet ...	29.92	54	54	SSW	2	0	*								

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

Weather in morning fine and bright over the greater part of Scandinavia, the eastern shores of the North Sea and England, also over southern Europe and the south of Russia, cloudy or overcast elsewhere with rain in many districts, more particularly in the west and north of our Islands and the northwest of France. Rainfall considerable in the latter region during the day, slight but general in the west of our Islands.

Temperature fallen at the English stations and over central and eastern Europe, even a little over Ireland, morning readings exceeding 60° at most of the Mediterranean stations, lower elsewhere; below 50° over the greater part of the United Kingdom, below 40° over the northern half of Russia, and as low as 28° at Archangel, 33° at Haparanda and St Petersburg, 35° at Hango, 37° at Riga. Rising quickly during day to between 60° and 67° over England and France, and to 68° at Wiesbaden and Lisbon. Falling quickly over England at night.

Wind moderate to fresh from the S^W on our western and northern coast, light to fresh from SW. in the north of Norway; mainly E³ to NE³ over Germany, the north of France, and the eastern half of England, NW² in the south of France. Veering to SW. and W. in Ireland later and falling light.

Barometer highest 30.3 ins. to 30.2 ins. in an anticyclone lying over Scandinavia, Denmark, and the Baltic, and exceeding 30.1 ins. over the Bay of Biscay and northern half of Spain. Lowest, 29.9 ins. and less, off our extreme northwest coast, and also over the Black Sea and the whole of southeastern Europe; rather below 30.0 ins. over the east of France. Gradient moderate but variable. Falling a little over the east and southeast of England and in the Netherlands later, changing little and irregularly 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.

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

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„ Weekly „ „ „

£1 10 0 „

DAILY WEATHER REPORT.

for *Friday, 8th May,* 1891.
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barom. Reading at 32° F. and Sea Level.	Temp. Dry.	Wind.		Weather.	Barometer.		Shade Temp.			Wind.		Weather.	Sea. (0 to 4.)	Shade Temp.			
			Direc.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)			Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.	Haparanda ...	30.14	31	Z	0	b	30.28	+ 14	35	82	- 1	NE	2	b	*	45	28	-
	Hernösand ...	30.19	43	S	2	b	30.19	- 04	40	?	- 3	E	2	b	*	63	32	-
	Stockholm ...	30.25	42	S	2	b	30.22	- 07	48	41	+ 2	SE	2	b	*	57	30	-
	Wisby ...	30.17	37	SE	4	b	30.12	- 13	47	42	+ 8	ESE	1	c	*	47	37	-
	Bodö ...	30.17	42	Z	0	c	30.08	- 13	42	37	+ 3	ENE	4	b	2	43	36	-
	Christiansund	30.07	48	NE	3	b	29.99	- 18	46	44	0	S	1	b	1	48	41	-
	Skudesnaes ...	30.04	45	S	4	c	29.94	- 24	51	45	+ 5	ENE	1	0	2	51	43	-
	Christiania Fjord (Færd)	30.12	48	NNE	2	b	30.06	- 26	46	41	+ 1	ENE	5	c	2	50	43	-
	Skagen (The Scaw)	30.08	46	Z	0	bc	29.98	- 25	46	42	0	SE	3	b	3	55	41	-
	Fanö ...	29.94	45	E	6	b	29.80	- 30	49	46	+ 7	E	6	bc	*	52	42	-
BRITISH ISLANDS.	Sumburgh Head	29.89	44	SSE	4	0	29.85	- 12	46	45	+ 1	SSE	2	0	5	49	41	-
	Stornoway ...	29.72	53	SW	3	b	29.67	- 14	47	46	0	SE	1	0	4	53	40	0.02
	Wick ...	29.81	47	S	3	0	29.80	- 11	46	44	+ 4	S	4	0	3	52	42	-
	Nairn ...	29.72	59	Z	0	c	29.67	- 21	51	48	0	ESE	2	bc	2	61	40	0.02
	Aberdeen ...	29.86	44	SSE	3	0	29.74	- 22	44	43	- 2	E	3	0	4	49	43	-
	Leith ...	29.69	52	N	1	r	29.60	- 34	45	45	- 1	NE	3	0	*	53	41	0.05
	Shields ...	29.82	45	ESE	3	0	29.59	- 38	45	44	- 2	ESE	2	0W	3	50	38	-
	Spurn Head ...	29.81	47	ENE	2	bc	29.59	- 38	50	48	0	S	2	bc	2	54	45	-
	York ...	29.83	59	ESE	1	b	29.59	- 41	49	48	+ 2	E	1	r	*	65	42	0.01
	Loughborough	29.80	62	ESE	2	b	29.59	- 42	51	49	+ 9	SSW	1	c	*	66	42	0.11
GERMANY & HOLLAND.	Ardrossan ...	29.73	53	SSW	1	0	29.55	- 36	45	45	- 4	ENE	3	rm	2	56	41	0.22
	Malin Head ...	29.62	52	SE	3	0p	29.38	- 48	45	45	- 4	SE	5	0r	3	56	43	0.66
	Mullaghmore ...	29.63	49	SSE	1	0gr	29.44	- 43	44	43	- 5	SSW	4	0r	4	53	43	0.51
	Belmullet ...	29.66	44	W	3	0	29.45	- 39	45	45	- 5	W	1	0p	*	54	39	0.25
	Donaghadee ...	29.71	48	SSE	2	r	29.49	- 44	45	44	- 5	SSW	3	0	1	51	43	0.64
	Liverpool (Bidston)	29.67	53	W	1	0	29.56	- 41	50	45	- 4	SW	1	bc	2	64	45	0.18
	Holyhead ...	29.74	51	S	2	rgm	29.53	- 42	49	46	+ 1	SW	3	bc	2	55	43	0.34
	Parsonstown ...	29.65	46	Z	0	r	29.50	- 39	45	43	- 3	Z	0	c	*	58	36	0.43
	Valencia ...	29.73	50	WNW	3	bcn	29.52	- 35	45	44	- 6	N	2	cp	3	52	39	0.30
	Roche's Point...	29.67	48	WNW	4	c	29.50	- 41	45	42	- 5	W	3	bc	3	51	39	0.60
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.70	49	S	4	r	29.50	- 45	43	42	- 6	SSE	3	rm	4	51	43	0.28
	Scilly ...	29.75	51	W	5	c	29.44	- 53	44	42	- 9	WNW	4	c	5	54	42	0.60
	Prawle Point ...	29.84	49	SSW	2	f	29.53	- 47	47	46	- 8	S	4	ogu	3	56	43	0.14
	Jersey (St. Aubin's)	29.90	54	NE	2	b	29.67	- 36	52	49	+ 3	SW	3	rgm	3	61	42	0.09
	Hurst Castle ...	29.87	47	SW	3	f	29.61	- 38	50	48	- 3	W	4	bc	2	58	45	0.09
	Dungeness ...	29.84	50	SW	2	bc	29.62	- 32	49	48	- 1	SSW	2	bc	0	59	45	-
	London ...	29.81	62	N	1	m	29.61	- 37	52	49	- 3	S	1	0	*	66	45	0.02
	Oxford ...	29.78	57	SW	2	bc	29.59	- 41	49	46	- 1	SW	1	c	*	66	46	0.10
	Cambridge ...	29.82	56	N	1	bc	29.60	- 39	52	51	+ 3	S	1	0	*	67	46	0.05
	Yarmouth ...	29.85	51	NNE	2	bc	29.64	- 32	51	49	+ 3	SW	2	bc	3	52	44	-
PENINSULA.	Cuxhaven ...	29.96	50	E	5	c	29.79	- 29	50	48	+ 3	ESE	3	bc	*	56	47	-
	Berlin ...	29.92	54	E	4	r	29.71	- 34	56	54	+ 3	ESE	3	0	*	64	52	-
	Wiesbaden ...	*	*	*	*	*	29.71	- 23	54	51	- 2	W	2	r	*	64	52	0.04
	Munich ...	29.82	55	Z	0	r	29.68	- 28	56	55	- 1	SW	3	0	*	64	54	0.12
	The Helder ...	29.80	53	NE	1	c	29.68	- 26	50	49	0	SSW	1	0	1	55	48	-
	Brussels (9 a.m.)	*	*	*	*	*	29.69	- 20	54	52	+ 1	SW	1	c	*	59	47	0.04
	Cape Gris Nez	29.86	51	WNW	1	bc	29.66	- 27	49	46	+ 2	S	1	b	1	57	45	-
	Paris ...	29.92	59	SE	2	bc	29.77	- 20	50	47	+ 2	WNW	2	m	*	63	?	-
	Brest ...	29.91	54	SW	3	0	29.73	- 35	56	49	- 2	W	4	0	3	61	48	0.04
	Lorient ...	29.93	55	WSW	3	bc	29.75	- 30	51	47	+ 2	W	3	0	4	59	48	-
FRANCE AND BELGIUM.	Rochefort ...	30.01	57	WNW	5	b	29.83	- 20	55	54	+ 2	WNW	5	r	*	61	?	0.08
	Belfort ...	?	55	W	3	0	?	?	50	49	- 4	W	2	r	*	61	46	0.39
	Lyons ...	29.88	55	WNW	2	0	29.80	- 20	51	49	0	NW	1	r	*	58	50	0.04
	Nice ...	29.76	55	ENE	2	r	29.63	- 17	55	53	- 4	SW	2	r	1	66	52	0.04
	Perpignan ...	29.90	62	NW	4	b	29.85	- 13	57	51	0	NW	3	b	*	68	52	-
	Biarritz ...	30.01	58	WNW	3	b	29.91	- 16	52	49	- 1	WSW	3	r	2	64	48	-
PENINSULA.	Corunna ...	*	*	*	*	*	30.01	- 05	57	54	- 3	WSW	4	0	3	66	52	0.04
	Lisbon ...	30.08	60	WNW	5	bc	30.09	- 00	58	53	+ 1	WNW	4	c	3	66	57	-

For Explanation of Columns, see bottom of p. 4.

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

WEATHER CHARTS

for 8 a.m. on Friday, 8th May, 1891.

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.

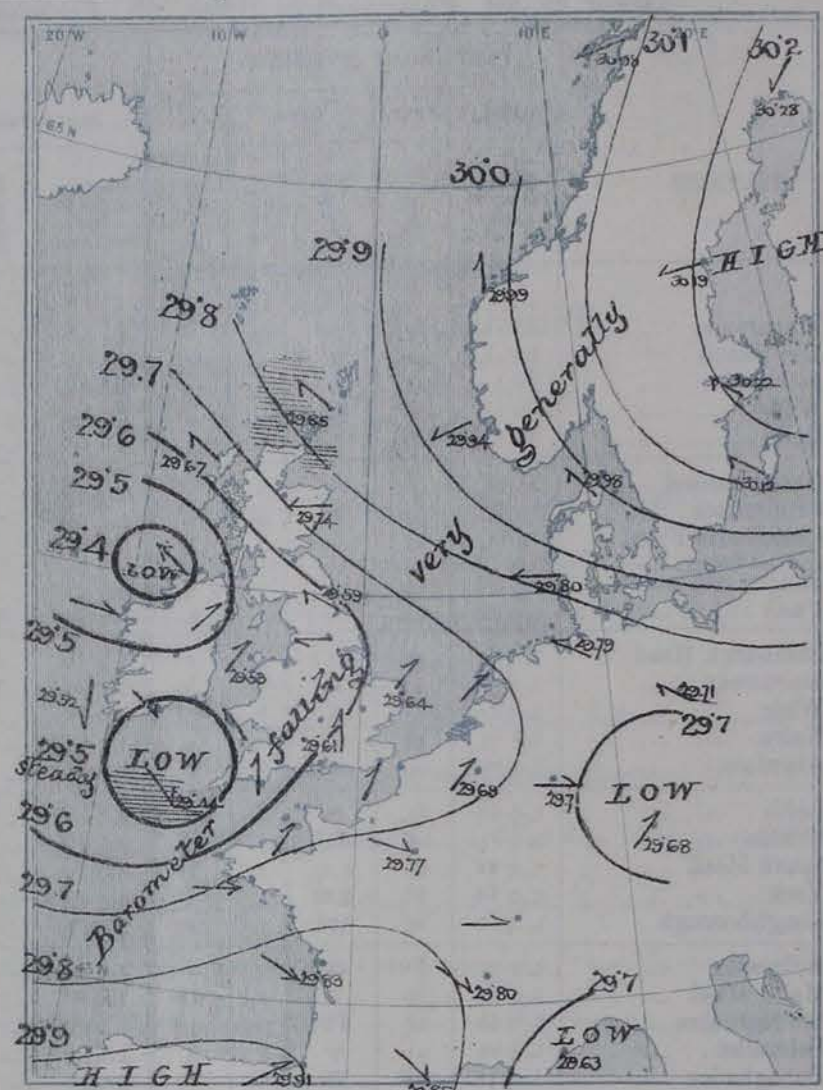
SEA DISTURBANCE—Where considerable, is shown thus:

▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.879
Stornoway	29.886
Wick	29.901
Nairn	29.908
Aberdeen	29.918
Leith	29.932
Shields	29.943
Spurn Head	29.956
York	29.962
Loughborough	29.973
Ardrossan	29.935
Mullaghmore	29.929
Donaghadee	29.947
Holyhead	29.956
Liverpool	29.961
Parsonstown	29.958
Valencia	29.963
Roche's Point	29.950
Pembroke	29.961
Scilly	29.974
Prawle Point	29.992
Jersey	29.989
Hurst Castle	29.982
Dover	29.970
LONDON	29.981
Oxford	29.981
Cambridge	29.976
Yarmouth	29.967



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 May.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head.....	50.3	40.2	46.1	44.0	1.72
Stornoway	53.3	41.1	48.6	46.4	2.61
Wick	53.9	40.6	48.1	45.6	1.69
Nairn	56.3	42.2	48.6	45.4	1.61
Aberdeen	55.0	41.9	48.9	45.4	1.99
Leith	57.8	42.4	50.1	45.7	1.67
Shields	54.4	42.9	49.0	46.0	1.69
Spurn Head.....	54.3	45.1	49.3	47.2	1.57
York	59.6	42.2	49.8	46.7	1.85
Loughborough	61.7	42.6	51.1	47.7	2.09
Ardrossan	56.5	43.9	49.6	46.7	2.34
Mullaghmore	56.7	45.3	50.2	47.4	2.42
Donaghadee.....	56.0	44.2	49.6	47.5	2.26
Holyhead.....	56.2	46.2	50.5	48.0	1.90
Liverpool.....	58.0	45.0	50.8	46.9	1.84
Parsonstown	59.5	42.7	51.0	47.8	2.24
Valencia	58.1	46.3	52.8	49.7	3.20
Roche's Point	58.9	46.2	51.7	48.8	3.14
Pembroke.....	55.0	45.9	49.9	47.7	2.03
Scilly	56.3	48.2	52.7	50.3	1.73
Prawle Point	56.6	45.3	51.4	49.4	1.56
Jersey	59.4	47.2	53.6	50.5	1.87
Hurst Castle	58.6	45.7	51.6	49.9	1.78
Dover	57.0	46.7	52.5	49.3	1.79
LONDON	62.3	44.4	52.5	48.5	1.86
Oxford	60.6	43.4	50.6	47.5	1.95
Cambridge	62.0	42.0	51.7	48.5	1.90
Yarmouth	55.4	44.0	50.6	48.1	1.86

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 in. to 30.1 in. over Ireland and Scandinavia; 30.1 in. to 29.8 in. over the Iberian Peninsula and the Bay of Biscay.
 Lowest, 29.4 in. and less, over the northwest of Ireland; 29.5 in. and less over Cornwall, the Celtic Islands, and the mouth of St. George's Channel.
 Gradients moderate for E and SE winds in the north, and for SW to W winds in the south; slight and very variable over our central and western districts.
 Barometer falling generally, but at variable rates.

TEMPERATURE

Highest, 58° at Lisbon, 57° at Perpignan, 55° at Nice, 52° in London.
 Lowest, 35° at Haparanda, 40° at Helsingfors, 44° to 45° at the Irish stations.
 The daily maxima recorded over England yesterday varied from 60° to 65°.

WIND

Very variable, mainly SE² to E² over the northern part of our area, and mainly SW² to W² in the south, but NW² on our extreme southern coasts.
 In force it is light to moderate generally.

WEATHER

Cloudy and unsettled generally, with rain at very many stations. The fall since yesterday has been general over Ireland, England, and France, and very considerable at the western stations.

SEA

Rather rough at Lumburgh Id and Pelly, moderate to slight in most other places.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The low pressure system which lay off our extreme western coasts yesterday has spread quickly to the eastward over the United Kingdom in the form of a "hollow". Two well-marked minima have been developed — one off the northwest of Ireland, the other at the mouth of St. George's Channel, and there are slight indications of a third between Sheffield and Derby. Temperature has fallen decidedly in the west, and the fall is spreading; the weather is becoming very unsettled and rainlike.

FORECASTS

For the 24 hours ending at NOON on 9th May

1891.

DISTRICTS.

FORECASTS.

- | | | |
|---|------------------|---|
| 0 | SCOTLAND NORTH | SE ² winds, fresh; drizzle, rainy. |
| 1 | SCOTLAND EAST | |
| 2 | ENGLAND N.E. | Varying SE ² to SW ² winds; very unsettled, rainy (heavy in several places), thunderstorms locally. Colder. |
| 3 | ENGLAND EAST | |
| 4 | MIDLAND COUNTIES | |
| 5 | ENGLAND SOUTH | SE ² to W ² winds, moderate; rainy, thunder locally. Colder. |

DISTRICTS.

FORECASTS.

- | | | |
|----|---------------|--|
| 6 | SCOTLAND WEST | Same as No 0 and 1. |
| 7 | ENGLAND N.W. | |
| 8 | ENGLAND S.W. | Very variable winds; rainy, unsettled, colder. |
| 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:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	30.12	50	45	SSE	4	c	4	Holyhead ...	29.86	53	51	SEW	3	rg	2
Sumburgh Head	29.92	48	47	SSE	3	0	6	Valencia ...	29.81	48	46	NW	4	rm	4
Stornoway ...	29.77	52	51	Sw	3	lc	3	Scilly ...	29.87	55	54	S	5	OT	5
Aberdeen ...	29.91	49	45	SSE	3	c	3	Jersey ...	29.97	55	51	NW	3	bcm	3
Shields ...	29.89	47	45	ESE	3	cm	3	Dungeness ...	29.90	56	51	S	1	bc	1
Ardrossan ...	29.84	53	51	SSW	1	0	1	London ...	29.88	62	52	NW	1	bc	*
Malin Head ...	29.78	51	48	E	2	0	2	Yarmouth ...	29.91	51	49	NNE	3	bc	3
Mullaghmore ...	29.75	52	48	SSE	2	og	3	Rochefort ...	30.06	60	54	NW	4	b	*
Belmullet ...	29.73	48	48	W	2	r	*								

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

Continental Information not yet received.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—Beaufort Scale is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.
* AN ASTERISK is inserted in all places for which information is not usually received.
The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark the observations are taken at 8 p.m. (Christiania time).

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 *Saturday, 9th May, 1891.*
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
	Reading at 32° F. and Sea Level.	Dry.	Direc.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...	30.20	30	N	0	b	30.02	-16	36	34	+1	S	2	b	*	41	25	-
	Hernösand ...	30.19	37	N	0	f	30.16	-03	46	41	+6	SSW	4	b	*	48	30	-
	Stockholm ...	30.31	41	E	2	b	30.18	-04	51	44	+3	EHE	2	b	*	55	30	-
	Wisby ...	30.04	44	E	4	b	30.06	-06	53	44	+6	ESE	4	b	*	55	34	-
	Bodö ...	30.04	46	E	1	b	30.03	-05	42	41	0	SW	4	r	2	50	37	-
	Christiansund	30.05	48	N	0	b	30.12	+13	47	44	+1	WAW	1	b	0	52	41	-
	Skudesnaes ...	30.00	51	E	2	c	30.04	+13	55	46	+4	E	2	0	2	57	46	-
	Christiania Fjord (Færdier)	30.04	51	EHE	3	b	30.11	+05	45	42	-1	NNE	5	b	2	54	43	-
	Skagen (The Scaw)	29.96	51	SE	3	b	29.99	+01	49	47	+3	E	3	b	3	63	45	-
	Fanö ...	29.75	50	E	6	r	29.76	-04	50	48	+1	NE	6	c	*	57	46	0.12
BRITISH ISLANDS.	Sumburgh Head	29.94	47	NE	2	c	30.11	+26	49	46	+3	NE	1	0	4	50	44	-
	Stornoway ...	29.83	50	E	4	b	30.04	+37	49	48	+2	E	4	m	4	54	41	-
	Wick ...	29.90	48	ESE	1	0	30.10	+30	50	48	+4	E	1	b	1	50	44	0.14
	Nairn ...	29.84	46	E	2	m	30.06	+38	47	46	-4	E	1	m	1	51	44	0.01
	Aberdeen ...	29.84	44	NE	3	or	30.04	+33	49	47	+5	NNE	2	b	3	49	44	0.47
	Leith ...	29.77	46	N	2	0	29.98	+38	47	46	+2	NNE	1	0	*	53	41	0.16
	Shields ...	29.68	45	N	2	f	29.89	+30	45	45	0	NW	3	r	3	48	42	0.09
	Spurn Head ...	29.62	47	EHE	3	c	29.78	+19	46	46	-4	NE	3	f	3	54	44	-
	York ...	29.61	59	E	1	cp	29.84	+25	49	48	0	NE	1	0	*	60	42	0.03
	Loughborough	29.58	55	EHE	2	0	29.80	+21	48	47	-3	NNE	4	ogm	*	62	45	-
GERMANY & HOLLAND.	Ardrossan ...	29.74	49	EHE	3	om	29.98	+43	51	49	+6	NNE	2	om	1	53	42	-
	Malin Head ...	29.73	48	NE	3	b	29.99	+61	48	47	+3	N	1	bw	2	49	44	-
	Mullaghmore ...	29.72	53	NE	5	bv	29.99	+55	50	48	+6	NE	4	bw	2	53	43	0.12
	Belmullet ...	29.76	50	NNE	3	b	30.03	+58	52	51	+7	N	1	b	*	52	45	0.02
	Donaghadee ...	29.68	50	NE	3	bc	29.96	+47	48	47	+3	NE	5	m	3	54	43	-
	Liverpool (Bidston)	29.58	55	NNE	2	c	29.86	+30	50	48	0	N	1	0	2	57	45	-
	Holyhead ...	29.58	48	NE	5	eg	29.88	+35	48	47	-1	NNE	4	ug	4	53	46	0.01
	Parsonstown ...	29.66	54	NE	1	bc	29.98	+48	46	45	+1	2	0	0	*	57	44	-
	Valencia ...	29.66	51	N	5	b	30.01	+49	53	50	+8	NE	3	bcm	3	53	44	-
	Roche's Point...	29.56	53	NNE	4	bc	29.87	+37	52	49	+7	NW	5	b	4	55	45	-
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.48	48	E	5	r	29.82	+32	51	49	+8	NNE	3	b	3	51	42	0.57
	Scilly ...	29.35	47	N	6	r	29.73	+29	51	49	+7	NNE	6	0	6	51	44	0.22
	Prawle Point...	No 6pm observations					29.71	+18	55	53	+8	NE	4	b	3	56	44	0.18
	Jersey (St. Aubin's)	29.42	48	N	3	rq	29.65	-02	53	50	+1	E	4	bcm	3	55	45	0.44
	Hurst Castle ...	29.69	52	E	3	c	29.70	+09	53	51	+3	NE	4	bm	2	56	48	-
	Dungeness ...	29.53	51	E	2	c	29.66	+04	54	52	+5	N	3	m	2	56	48	0.17
	London ...	29.53	58	SE	2	c	29.74	+13	53	49	+1	NNE	2	c	*	60	47	-
	Oxford ...	29.56	55	E	3	c	29.78	+19	46	46	-3	N	3	0	*	60	45	-
	Cambridge ...	29.55	59	SE	1	c	29.76	+16	50	49	-2	N	1	0	*	61	41	-
	Yarmouth ...	29.60	50	SE	3	b	29.72	+08	47	46	-4	NNE	3	f	3	52	44	-
PENINSULA.	Cuxhaven ...	29.70	49	ESE	3	r	29.68	-11	50	49	0	EHE	3	f	*	53	48	0.04
	Berlin ...	29.63	57	NE	2	0	29.62	-09	61	60	+5	ESE	3	c	*	61	54	0.12
	Wiesbaden ...	*	*	*	*	*	29.64	-17	55	54	+1	2	0	*	61	54	0.28	
	Munich ...	*	*	*	*	*								*				
	The Helder ...													*				
	Brussels (8 a.m.)	*	*	*	*	*	29.63	-06	52	51	-2	NNE	1	r	*	63	48	0.04
	Cape Gris Nez	29.53	52	E	3	c	29.63	-03	50	49	+1	E	3	m	3	57	48	-
	Paris ...	29.58	54	SE	2	r	29.60	-17	51	50	+1	NE	1	r	*	65	49	0.28
	Brest ...	29.44	49	NE	4	c	?	?	46	45	-4	NE	3	0	3	54	34	0.28
	Lorient ...	29.45	51	NW	5	b	29.58	-17	44	42	-7	NE	2	bc	5	55	45	0.32
FRANCE AND BELGIUM.	Rochefort ...	29.50	52	SW	6	r	29.50	-33	50	48	-5	ESE	3	bc	*	61	39	0.16
	Belfort ...	?	50	N	2	r	?	?	52	51	+2	N	3	0	*	54	48	0.08
	Lyons ...	29.63	54	E	1	c	29.52	-28	51	47	0	N	1	b	*	59	43	-
	Nice ...	29.50	56	SW	2	c	29.50	-13	56	54	+1	EHE	2	c	1	64	52	-
	Perpignan ...	29.65	63	NW	3	c	29.55	-30	46	43	-11	N	3	r	*	70	42	0.55
	Biarritz ...	29.67	53	N	4	r	29.54	-37	51	44	-1	SW	3	0	6	61	43	0.35
	Corunna ...	*	*	*	*	*	+29.69	-32	53	51	-4	NW	3	c	9	61	45	0.51
	Lisbon ...	30.04	57	NW	5	bc	29.95	-14	55	50	-3	NW	4	c	5	63	54	0.04

For Explanation of Columns, see bottom of p. 1.

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

WEATHER CHARTS

for 8 a.m. on Saturday, 9th May, 1891.

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:

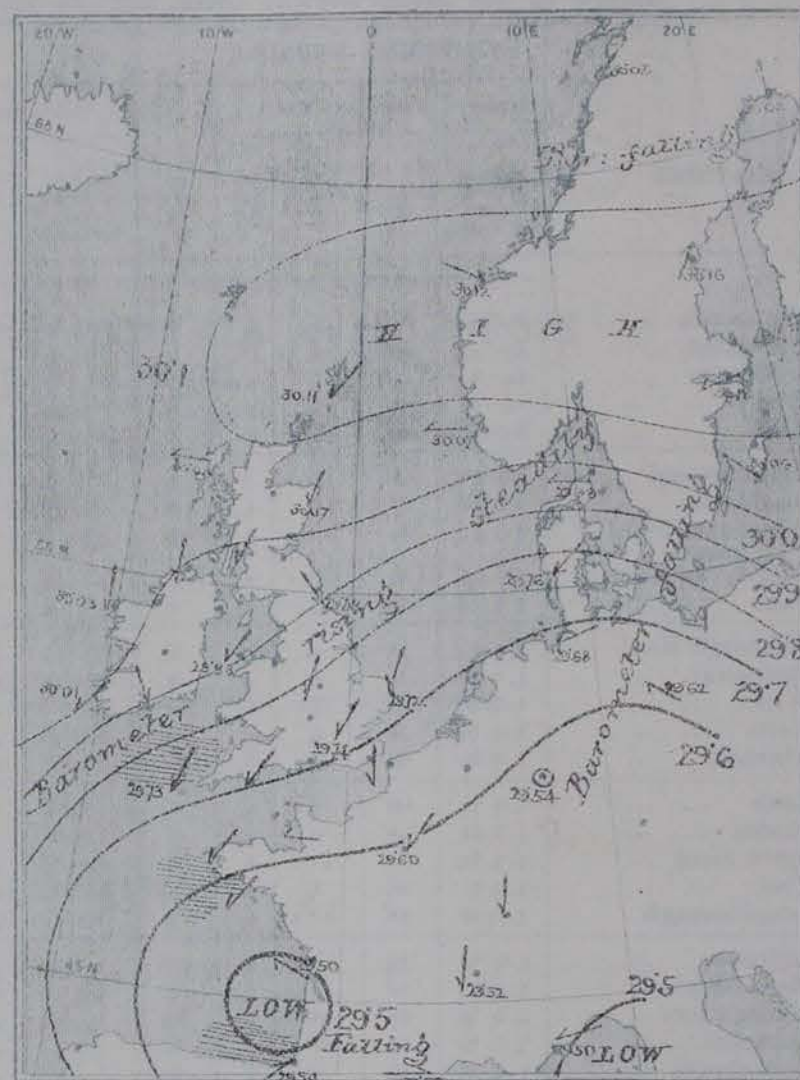
— Rough. — High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of May

During the 20 Years 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.879
Stornoway	29.888
Wick	29.901
Nairn	29.908
Aberdeen	29.918
Leith	29.932
Shields	29.943
Spurn Head	29.956
York	29.962
Loughborough	29.973
Ardrossan	29.985
Mullaghmore	29.989
Donaghadee	29.947
Holyhead	29.956
Liverpool	29.961
Parsonstown	29.968
Valencia	29.983
Roche's Point	29.959
Pembroke	29.961
Scilly	29.974
Prawle Point	29.992
Jersey	29.989
Hurst Castle	29.992
Dover	29.970
LONDON	29.981
Oxford	29.981
Cambridge	29.976
Yarmouth	29.967



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.

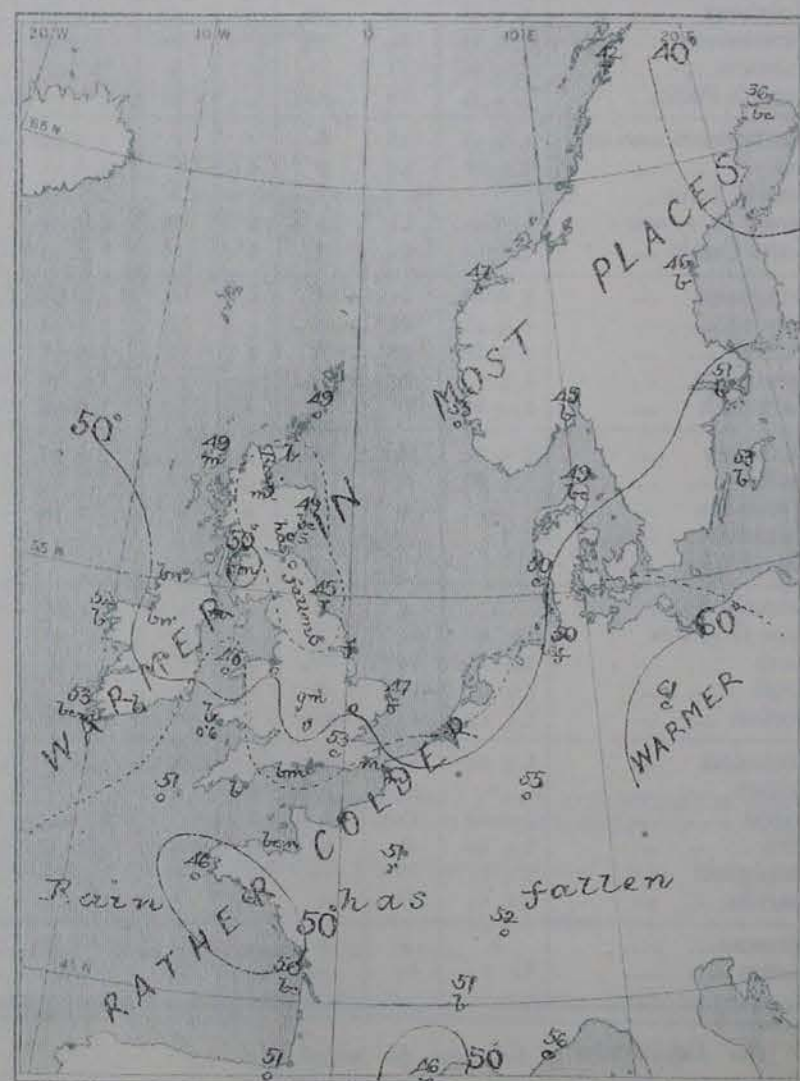
WEATHER is shown by Letters of the Beaufort Scale.

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 May)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry	Wet.	
Sumburgh Head.....	50.3	40.2	46.1	44.0	1.72
Stornoway	52.3	41.1	48.6	46.4	2.61
Wick	53.9	40.6	48.1	45.6	1.69
Nairn	50.3	42.2	48.6	45.4	1.61
Aberdeen	55.0	41.9	48.9	45.4	1.99
Leith	57.8	42.4	50.1	46.7	1.67
Shields	54.4	42.9	49.0	46.0	1.69
Spurn Head	54.3	45.1	49.3	47.2	1.57
York	59.6	42.2	49.8	46.7	1.85
Loughborough	61.7	42.6	51.1	47.7	2.09
Ardrossan	56.5	43.9	49.6	46.7	2.34
Mullaghmore	56.7	46.3	50.2	47.1	2.42
Donaghadee	56.0	44.2	49.6	47.5	2.36
Holyhead	56.2	46.2	50.5	48.0	1.90
Liverpool	58.0	45.0	50.8	46.9	1.84
Parsonstown	59.5	42.7	51.0	47.8	2.24
Valencia	58.1	46.3	52.8	49.7	3.20
Roche's Point	58.9	46.2	51.7	48.8	3.14
Pembroke	65.0	45.9	49.9	47.7	2.03
Scilly	56.3	48.2	52.7	50.3	1.73
Prawle Point	56.6	45.3	51.4	49.4	1.56
Jersey	59.4	47.2	53.6	50.5	1.87
Hurst Castle	54.6	45.7	51.6	49.9	1.78
Dover	57.0	46.7	52.5	49.3	1.79
LONDON	62.3	44.4	52.5	48.5	1.86
Oxford	60.8	43.4	50.6	47.5	1.95
Cambridge	62.0	42.0	51.7	48.5	1.90
Yarmouth	65.4	44.9	50.6	48.1	1.86

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 in. and more, in our anticyclone over Scandinavia, and 30.0 in. and more, in the extreme northwest and east of our Islands.
Lowest, 29.5 in. and less, over the southwest of France and Gulf of Genoa; 29.6 in. and less, over Switzerland and southern part of Germany.
Gradients moderate but irregular over the Bay of Biscay, the British Islands, North Sea and Denmark, slight elsewhere.
Barometer falling over Spain, France, and Germany, rising elsewhere.

TEMPERATURE

Highest, 56° at Nice, 55° at Lisbon and Ponta Point, 53° in London at Finch, and Valencia Island, 51° at Paris and Stockholm.
Lowest, 36° at Haparanda, 45° at Shields, 46° at Harrogate and Spennithorne.
It rose to between 60° and 62° in several parts of England yesterday, to 65° at Paris, and to 70° at Leipzig.

WIND

Light and variable from the E. in Scotland, light to fresh from the NE. over the North Sea, England, Ireland, and the Irish Channels. SW. at Biarritz, W. to NW. over Spain. S. to SW. breezes are again appearing over Lapland.

WEATHER

Very variable over France and the east of England with rain in several localities, thick fog at Havre.
There was much fog on our northern coasts yesterday, and a good deal of rain in Scotland at our southern stations, in Germany, and France.

SEA

Rough at Lally, Lorient and Brest, moderate in north and northwest, slight as a whole elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The disturbance noticed over the southwestern parts of our Islands yesterday has moved southwards, and at the same time pressure has given way over Germany; over the United Kingdom, however, it has increased, and rather irregular gradients for E. to NE. winds have become prevalent over nearly the whole of northwestern Europe.

The anticyclone over Scandinavia is apparently united by a "Col" to a similar system over the Atlantic. Both will probably move southwards shortly and the southerly current of air already shown over Lapland, spread to our northern stations shortly.

FORECASTS

For the 24 hours ending at NOON on 10th May.

1891.

DISTRICTS.

FORECASTS.

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

E. breezes, light, and probably shifting S. later; fair generally.
NE. breezes, moderate; cloudy, some rain.
NE. breezes, moderate, fresh in Channel; changeable, some rain occasionally.

DISTRICTS.

FORECASTS.

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

Same as No. 0 and 1.

NE. breezes, moderate, some showers.

N. and NW. breezes, moderate, fair as a whole.

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.

		THER:		WIND						THER:		WIND					
	BAR:	D.	W.	D.	F.	WEA.	SEA			BAR:	D.	W.	D.	F.	WEA.	SEA	
Skudesnaes ...	29.93	51	46	E	4	C	3	Holyhead ...	...	29.56	48	45	NE	4	C	2	
Sumburgh Head ...	29.91	48	47	ESE	2	C	4	Valencia ...	...	29.55	52	48	NW	2	bcv	3	
Stornoway ...	29.77	52	51	E	4	C	4	Scilly ...	...	29.40	48	44	NW	6	C	5	
Aberdeen ...	29.77	44	43	ENE	4	oqr	5	Jersey ...	...	29.49	52	50	SSE	3	T	3	
Shields ...	29.64	47	46	ENE	2	om	4	Dungeness ...	...	29.57	53	51	SW	3	m	1	
Ardrossan ...	29.65	53	51	ENE	3	om	2	London ...	...	29.54	58	53	SE	3	ov	3	
Malin Head ...	29.64	49	48	E	3	bc	2	Yarmouth ...	...	29.61	52	50	S	3	6	3	
Mullaghmore ...	29.61	50	48	N	4	bc	3	Rochefort ...	...	29.69	57	52	W	5	0	2	
Belmullet ...	29.59	50	48	NNE	1	0	*										

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

Weather in morning fine and bright over Scandinavia and the N. of Russia and at some stations in the S.E. of England, cloudy and very unsettled as a whole elsewhere. Rain falling in many parts of the United Kingdom, France and W. Germany, as well as at Lemberg; thunderstorm prevalent at Malta. Considerable rain falling later in some parts of Scotland, the S.W. of our Islands and several parts of France and Germany. Thick fog on our N.E. coasts.

Temperature changing somewhat irregularly. Morning readings exceeding 60° at several of the Mediterranean stations and over S.E. Europe (72° at Brindisi, 70° at Algiers) but below 50° at many of our own stations and still lower over N. and central Russia. Lowest of all 25° at Archangel, 35° at St. Petersburg and Haparanda, 36° at Kuopio, 38° at Moscow. Rising during day to a little above 60° in several parts of England, France and Germany, and to 70° at Perpignan.

Wind extremely variable over the United Kingdom, but mainly W. at the S. stations, S. in the east and E. to S.E. in the north; moderate to light from NW. and N. over the Iberian Peninsula, from W. in France, from SW. in the Netherlands and from E. over Denmark and Scandinavia. S.E. breezes over Austria-Hungary and Poland, E. over the S. of Russia, and chiefly NW. over the Mediterranean. Becoming E. (SE to NE) all over our Islands later, SW. to SE. in France.

Barometer highest (1) 30.3 ins. to 30.1 ins. over Sweden, Finland, the Baltic and Russia, to 30.1 ins. to 29.8 ins. over the Spanish Peninsula and SW. of France, lower elsewhere, below 29.4 ins. in a depression off the N.W. of Ireland; below 29.5 ins. in another at the mouth of St. George's Channel, below 29.6 ins. in a third over Italy and Corsica and apparently below 29.7 ins. in a shallow secondary over Saxony. The depression over St. George's Channel moving S.E. and S. later, that in the N.W. of Ireland filling up, and barometer rising throughout 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. The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark the observations are taken at 8 p.m. (Christiania time).

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

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

„ Weekly „ „ „ £1 10 0 „

DAILY WEATHER REPORT.

for Sunday 10th May 1891.
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.			BAROMETER.		SHADE TEMP.			WIND.				SHADE TEMP.			
Reading at 32° F. and Sea Level.	Dry.	Direc.	Force. (0 to 12.)	Weather.	Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)	Weather.	Sea. (0 to 12.)	Max.	Min.	Amount of Rainfall.		
SCANDINAVIA.	Haparanda ...	29.91	35	2	0	bc	30.00	- .02	41	37	+ 5	N	2	b	*	46	28	-
	Hernösand ...	30.06	45	S	2	c	30.10	- .06	48	43	+ 2	N	2	b	*	54	36	-
	Stockholm ...	30.17	46	ESE	2	c	30.08	- .10	52	43	+ 1	NNW	2	b	*	59	30	-
	Wisby ...	30.04	46	E	4	b	30.00	- .06	48	45	- 5	ENE	4	bc	*	59	39	-
	Bodö ...	30.12	38	WNW	2	b	30.18	+ .15	40	36	- 2	WSW	4	4	0	42	34	-
	Christiansund ...	30.17	48	WNW	1	b	30.21	+ .09	45	42	- 2	WNW	1	b	0	48	39	-
	Skudeanaes ...	30.05	50	NNW	6	b	30.11	+ .04	55	46	0	E	2	b	1	61	46	-
	Christiania Fjord (Fierder)	30.04	54	N	3	b	30.10	- .01	49	45	+ 4	N	5	b	2	55	45	-
	Skagen (The Seaw)	29.97	51	NE	3	bc	30.02	+ .03	50	45	+ 1	ENE	3	bc	2	59	46	-
	Fanö ...	29.81	51	NE	6	c	29.85	+ .09	50	50	0	NE	4	r	*	55	50	0.04
BRITISH ISLANDS.	Sumburgh Head	30.15	50	NE	1	b	30.19	+ .08	51	47	+ 2	NE	1	b	2	54	41	-
	Stornoway ...	30.07	52	E	4	b	30.15	+ .11	51	49	+ 2	2	0	b	2	58	37	-
	Wick ...	30.15	52	ESE	1	b	30.20	+ .10	52	48	+ 2	ESE	1	b	0	58	36	-
	Nairn ...	30.08	55	E	1	b	30.16	+ .11	48	47	+ 1	2	0	c	1	55	33	-
	Aberdeen ...	30.12	51	NE	4	b	30.17	+ .10	51	48	+ 2	NE	3	b	4	54	41	-
	Leith ...	30.09	51	NNE	2	bc	30.13	+ .15	52	48	+ 5	NNE	1	b	*	53	39	-
	Shields ...	29.96	46	NNW	4	0	30.03	+ .14	48	46	+ 3	NNW	3	b	4	49	44	0.01
	Spurn Head ...	29.82	46	NNE	5	r	29.87	+ .09	47	46	+ 1	NNE	5	rm	5	47	45	0.71
	York ...	29.89	47	NE	1	0	29.95	+ .11	52	48	+ 3	NE	3	c	*	52	44	0.03
	Loughborough	29.84	47	NNE	3	b	29.88	+ .08	47	46	- 1	N	4	od	*	51	46	0.03
GERMANY & HOLLAND.	Ardrossan ...	30.01	58	NE	4	b	30.10	+ .12	57	55	+ 6	ENE	2	b	1	61	44	-
	Malin Head ...	30.01	50	NE	2	b	30.09	+ .10	48	48	0	ESE	2	c	1	52	45	-
	Mullaghmore ...	30.00	58	NNW	1	c	30.07	+ .08	51	47	+ 1	ENE	4	bc	2	59	47	-
	Belmullet ...	30.05	51	NNE	2	b	30.05	+ .02	55	52	+ 3	E	2	b	*	55	45	-
	Donaghadee ...	29.97	55	NE	4	c	30.09	+ .13	48	46	0	NE	5	bc	3	56	46	-
	Liverpool (Bidston)	29.90	50	NNE	3	0	29.96	+ .10	50	47	0	NNE	2	r	2	53	47	0.16
	Holyhead ...	29.91	49	NNE	3	c	29.97	+ .09	48	46	0	NNE	4	c	3	50	47	-
	Parsonstown ...	29.98	58	2	0	0	30.05	+ .07	49	47	+ 3	2	0	0	*	60	43	-
	Valencia ...	30.00	56	N	3	bc	30.04	+ .03	57	53	+ 4	NNE	2	bc	2	62	46	-
	Roche's Point...	29.95	59	NNE	3	b	29.99	+ .12	53	49	+ 1	N	3	bc	3	62	48	-
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.85	53	N	4	b	29.94	+ .12	51	49	0	N	3	cg	2	56	48	-
	Scilly ...	29.83	50	N	5	c	29.86	+ .13	50	49	- 1	N	5	m	5	53	47	-
	Prawle Point ...	29.78	56	NE	1	c	29.84	+ .13	50	49	- 5	N	3	ag	1	64	48	-
	Jersey (St. Aubin's)	29.71	58	N	4	bc	29.79	+ .14	50	48	- 3	NNW	4	ag	3	61	49	-
	Hurst Castle ...	29.76	55	NE	4	0	29.78	+ .08	49	49	- 4	NNE	3	c	2	60	48	-
	Dungeness ...	29.67	51	N	4	0	29.69	+ .03	50	49	- 4	N	4	0	3	57	50	0.05
	London ...	29.74	51	NNW	3	0	29.78	+ .04	48	47	- 5	N	3	og	*	58	49	0.03
	Oxford ...	29.82	47	N	4	0	29.82	+ .04	47	46	+ 1	N	4	og	*	52	46	0.10
	Cambridge ...	29.77	47	N	2	r	29.82	+ .06	48	48	- 2	N	2	0	*	53	45	0.13
	Yarmouth ...	29.73	47	NNE	3	og	29.76	+ .04	47	46	0	NNE	4	og	4	49	45	0.06
PENIN- SULA.	Cuxhaven ...	29.82	50	ENE	4	0	29.73	+ .05	50	48	0	ENE	4	b	*	54	45	-
	Berlin ...	29.66	66	ESE	3	b	29.73	+ .11	63	60	+ 2	ESE	3	c	*	75	61	0.35
	Wiesbaden ...	*	*	*	*	*	29.73	*	*	*	*	*	*	*	*	*	*	*
	Munich ...	29.80	60	E	4	b	29.56	*	58	53	*	NE	1	bc	*	72	45	-
	The Helder ...	29.67	50	NE	3	0	29.70	+ .01	50	49	+ 1	NE	3	0	3	50	48	0.28
	Brussels (9 a.m.)	*	*	*	*	*	29.63	+ .00	54	?	+ 2	NNW	2	f	*	56	49	-
	Cape Gris Nez	29.67	47	NE	5	f	29.68	+ .05	47	47	- 3	NE	4	f	4	54	45	-
	Paris ...	29.59	59	N	3	bc	29.67	+ .07	50	47	- 1	N	2	f	*	65	49	-
	Brest ...	29.75	58	NE	3	bc	29.84	?	50	49	+ 4	NNW	1	m	3	61	46	-
	Lorient ...	29.69	60	NNE	4	bc	29.81	+ .23	51	50	+ 7	NNW	2	b	5	61	43	-
PENIN- SULA.	Rocheport ...	29.68	51	NNW	4	r	29.72	+ .22	55	54	+ 5	NE	4	0	2	61	43	0.24
	Belfort ...	?	54	N	3	bc	?	?	52	52	0	N	3	0	*	61	50	-
	Lyons ...	29.53	51	SSW	2	r	29.64	+ .12	51	50	0	N	1	bc	*	63	47	0.43
	Nice ...	29.58	52	SSE	2	r	29.64	+ .14	52	49	+ 6	ENE	2	c	3	66	46	0.24
	Perpignan ...	29.54	54	SW	2	b	29.64	+ .09	52	47	+ 6	N	4	0	*	63	46	-
	Biarritz ...	29.62	53	N	3	0	29.71	+ .17	51	47	0	WSW	4	0	5	59	50	-
	Corunna ...	*	*	*	*	*	30.01	+ .32	50	54	+ 3	NNW	4	0	5	59	48	-
	Lisbon ...	29.98	56	NNW	5	0	30.02	+ .07	56	53	+ 1	NNW	3	0	4	61	54	-

For Explanation of Columns, see bottom of p. 4.

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

WEATHER CHARTS

for 8 a.m. on Sunday, 10th May, 1891.

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.

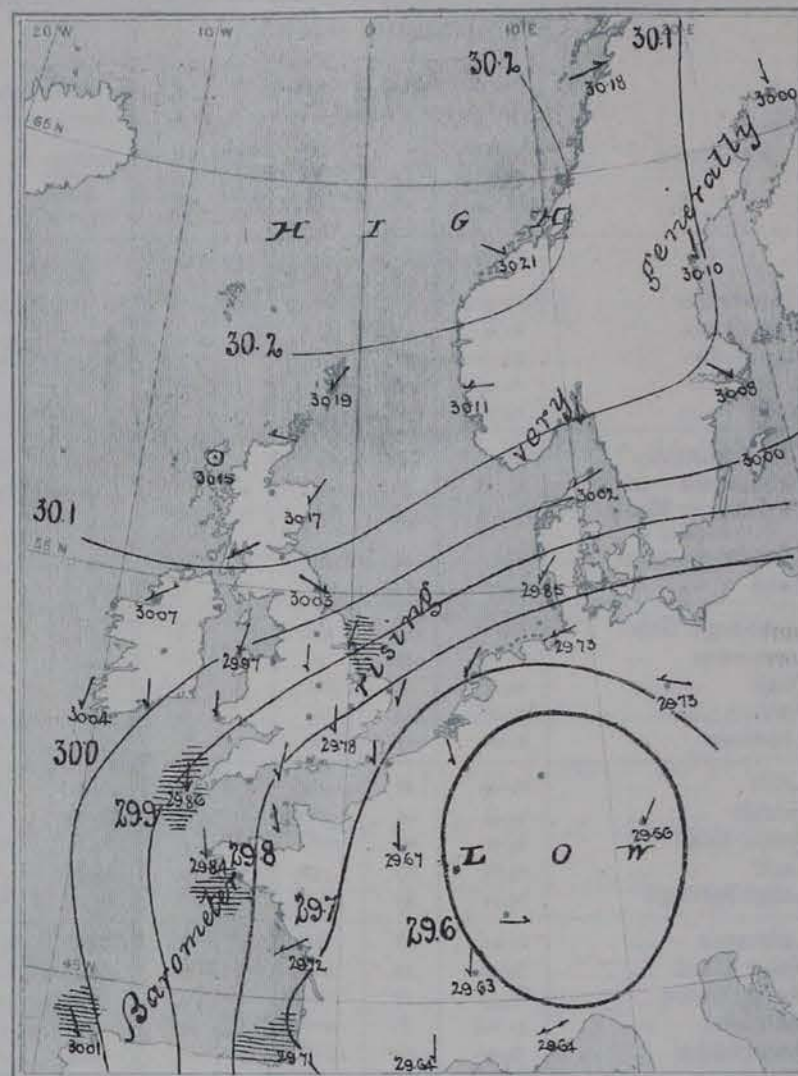
SEA DISTURBANCE—Where considerable, is shewn thus:

— = Rough. — = High.

MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.879
Stornoway	29.886
Wick	29.901
Nairn	29.908
Aberdeen	29.918
Leith	29.932
Shields	29.943
Spurn Head	29.956
York	29.962
Loughborough	29.973
Ardrossan	29.985
Mullaghmore	29.929
Donaghadee	29.947
Holyhead	29.956
Liverpool	29.961
Parsonstown	29.958
Valencia	29.963
Roche's Point	29.959
Pembroke	29.961
Scilly	29.974
Prawle Point	29.992
Jersey	29.989
Hurst Castle	29.982
Dover	29.970
LONDON	29.981
Oxford	29.981
Cambridge	29.976
Yarmouth	29.967



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.

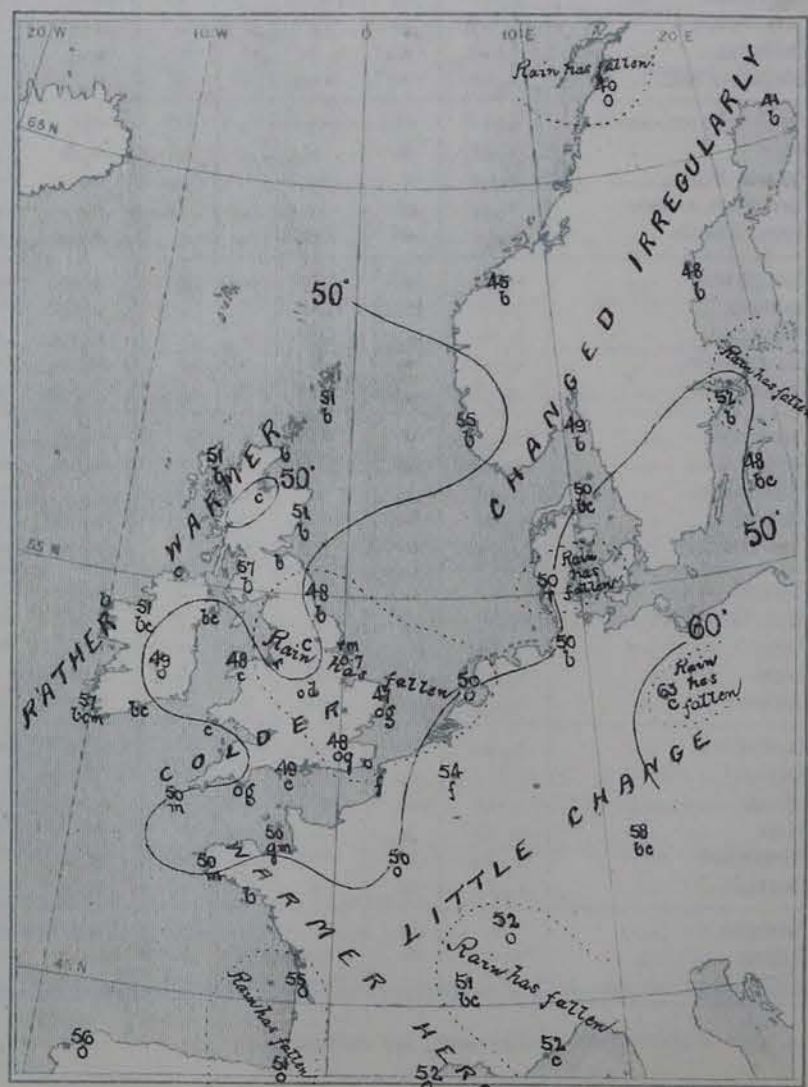
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of May.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	50.3	40.2	46.1	44.0	1.72
Stornoway	53.3	41.1	48.6	46.4	2.61
Wick	53.9	40.6	48.1	45.6	1.69
Nairn	56.3	42.2	48.0	45.4	1.61
Aberdeen	55.0	41.9	48.9	45.4	1.99
Leith	57.8	42.4	50.1	45.7	1.67
Shields	54.4	42.9	49.0	46.0	1.69
Spurn Head	54.3	45.1	49.3	47.2	1.57
York	59.6	42.2	49.8	46.7	1.85
Loughborough	61.7	42.6	51.1	47.7	2.09
Ardrossan	56.5	43.9	49.5	46.7	2.34
Mullaghmore	56.7	46.3	50.2	47.4	2.42
Donaghadee	56.0	44.2	49.6	47.5	2.26
Holyhead	56.2	46.2	50.5	48.0	1.90
Liverpool	58.0	45.0	50.8	46.9	1.84
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Pembroke	55.0	45.9	49.9	47.7	2.03
Scilly	56.3	48.2	52.7	50.3	1.73
Prawle Point	56.6	45.3	51.4	49.4	1.56
Jersey	59.4	47.2	53.6	50.5	1.87
Hurst Castle	58.6	45.7	51.6	49.9	1.78
Dover	57.0	46.7	52.5	49.3	1.79
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Cambridge	62.0	42.0	51.7	48.5	1.90
Yarmouth	55.4	44.9	50.6	48.1	1.86

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 Scandinavia, Scotland, Ireland, and neighbouring parts of Atlantic; 30.0 in. and more over Portugal.
 Lowest, 29.6 in. and less, over eastern France and western Germany.
 Gradients moderate over the North Sea and England, slight elsewhere.
 Barometer rising generally.

TEMPERATURE

Highest, 57° at Valencia (Ireland) 56° at Lisbon and Comino, 55° at Rochefort, Bismarck and Skutumpah; 53° at Rochistout.
 Lowest, 41° at Haparanda, 47° to 48° over the south-midland, home and eastern counties of England, and in the northeast of France.
 In London the air is very raw and damp, in Ireland and Scotland it is dry and fresh.

WIND

- (1) Light N in the north of Norway, N in the north of Sweden, nearly calm over Scotland.
- (2) Light to moderate NE over Ireland, light to fresh N over England, moderate N over the northern and western parts of France, NW over the Spanish Peninsula.
- (3) Moderate NE to E over Denmark and North Germany.

WEATHER

Dull, gloomy, and damp over the greater part of England and France, with rain at some stations; foggy on the southern side of the Channel; fine and bright in Ireland, Scotland and Scandinavia.
 Rainfall has been heavy at Spurn Hd, considerable at the Helder and in the south of France, slight over our southeastern, eastern and midland districts generally.

SEA

Rather rough at Queen Head and Scilly, moderate on our northeastern and eastern coasts as a whole, and on the Atlantic coasts of France and the Spanish Peninsula, slight in the Channel, very smooth on our northwestern coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 11TH May 1891.

DISTRICTS.

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

FORECASTS.

None Issued

DISTRICTS.

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

FORECASTS.

None Issued

WARNINGS

None Issued

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnes ...	30.07	60	49	NNW	6	b	2		Holyhead ...	29.91	49	48	NE	3	og
Sumburgh Head ...	30.15	58	49	NE	1	c	4		Valencia ...	29.99	59	55	N	4	bm
Stornoway ...	30.07	56	54	E	2	b	3		Scilly ...	29.81	52	50	N	6	c
Aberdeen ...	30.11	52	48	NE	4	b	4		Jersey ...	29.70	59	54	NNE	4	b
Shields ...	30.06	47	45	NNE	2	o	3		Dungeness ...	29.67	55	53	N	2	c
Ardrossan ...	30.00	61	55	NE	4	b	2		London ...	29.74	52	51	N	3	o
Malin Head ...	30.02	51	48	NE	2	b	1		Yarmouth ...	29.74	49	48	NNE	3	cf
Mullaghmore ...	30.00	50	54	NNW	1	b	2		Rocheport ...	29.66	59	54	ENE	3	o
Belmullet ...	30.04	54	52	N	2	b	*								

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

Weather in morning fine and bright over northern Europe and the Baltic, as well as at many of our own northern and western stations, cloudy or overcast elsewhere, with rain at some of our own stations and on the Continent, thunder at Comma, fog on our eastern coasts, haze in the southeast. Rain later in many parts of our Islands, France, Germany, Austria and Italy, as well as at Warsaw; fall considerable at many stations, slight at others.

Temperature changing irregularly, fallen over France and England, risen over Germany. Morning readings above 60° at most of the Mediterranean stations, and at many of those over Austria and Germany; below 50° over the northern and eastern parts of our Islands, and in Scandinavia, and as low as 25° at Archangel, 36° at Moscow, Petersburg and Haparanda. Rising later to 60° and rather more at many of the western stations and some parts of France, to 70° and more over Germany, Austria, and Italy, and to 80° and more in some parts of Algeria.

Wind moderate from the SW² over the northern parts of Scandinavia, but mainly E³ over Germany and the Baltic, NE³ to N³ over the North Sea, British Isles and north of France, NW³ to W³ over Spain and Algeria; very variable over the southern parts of Germany and France and in Italy. Becoming more N³ over our Islands and the Bay of Biscay later, and freshening a little at times.

Barometer highest 30.3 ins. and more to 30.1 ins. over Russia and in a "col" stretching thence across Scandinavia to Scotland, exceeding 30.0 ins. off the west of Ireland, and exceeding 29.9 ins. over the southeast of Spain. Lower 29.6 ins. and less, over France, Germany, the northern parts of the Mediterranean, and as low as 29.5 ins. at Trice. Rising slowly over northwestern Europe and depression over France and Germany decreasing in size and moving 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.

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

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

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

„ Weekly „ „ „ £1 10 0 „

DAILY WEATHER REPORT.

for *Monday, 11th May, 1891.*
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		BAROM. Reading at 32° F. and Sea Level.	TEMP. Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
				Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...	30.13	38	NW	2	c	30.25	+ .25	37	33	- 4	SSW	2	bc	*	48	30	-	
	Hernösand ...	30.20	40	Z	0	b	30.34	+ .24	48	42	0	Z	0	b	*	59	36	-	
	Stockholm ...	30.19	48	ESE	2	b	30.35	+ .27	50	41	- 2	ESE	2	b	*	61	34	-	
	Wisby ...	30.13	44	E	4	b	30.21	+ .21	50	41	+ 2	NE	6	b	*	57	39	-	
	Bodö ...	30.20	41	Z	0	o	30.15	- .03	45	42	+ 5	SW	4	c	2	39	36	-	
	Christiansund	30.25	47	N	2	b	30.25	+ .04	47	44	+ 2	ESE	1	b	1	52	43	-	
	Skudesnaes ...	30.15	57	NNW	4	b	30.26	+ .15	57	48	+ 2	E	2	c	1	63	48	-	
	Christiania Fjord (Fæder)	30.13	58	N	3	b	30.29	+ .19	51	47	+ 2	N	3	b	1	59	44	-	
	Skagen (The Seaw)	30.09	53	E	1	b	30.26	+ .24	52	48	+ 2	ESE	1	b	0	61	46	-	
	Fanö ...	30.01	52	ESE	4	b	30.12	+ .27	54	48	+ 4	E	6	b	*	61	48	-	
BRITISH ISLANDS.	Sumburgh Head	30.21	50	NE	1	b	30.23	+ .04	50	49	- 1	NE	1	b	1	54	42	-	
	Stornoway ...	30.13	57	E	3	b	30.20	+ .05	54	51	+ 3	SE	3	b	3	62	36	-	
	Wick ...	30.23	48	Z	0	b	30.28	+ .08	46	45	- 6	S	1	bc	2	57	36	-	
	Nairn ...	30.16	53	E	2	b	30.23	+ .07	47	45	- 1	Z	0	b	0	56	42	-	
	Aberdeen ...	30.19	48	NE	2	b	30.27	+ .10	54	48	+ 3	N	1	bc	1	54	36	-	
	Leith ...	30.15	52	NE	3	b	30.25	+ .12	50	47	- 2	E	1	c	*	53	38	-	
	Shields ...	30.06	49	NNW	2	cp	30.18	+ .15	49	46	+ 1	NNW	3	o	3	52	44	-	
	Spurn Head ...	29.93	47	NNE	6	o	30.09	+ .22	50	47	+ 3	NNE	4	b	4	50	45	0.23	
	York ...	30.01	51	N	2	o	30.14	+ .19	56	51	+ 4	N	2	bc	*	58	45	0.03	
	Loughborough	29.94	48	N	4	o	30.08	+ .20	54	51	+ 7	NNE	3	bc	*	54	46	0.16	
BRITISH ISLANDS.	Ardrossan ...	30.09	57	ESE	2	b	30.21	+ .11	54	48	- 3	NE	3	o	2	64	44	-	
	Malin Head ...	30.08	52	ESE	1	b	30.20	+ .11	52	46	+ 4	ESE	3	b	1	55	47	-	
	Mullaghmore ...	30.07	57	NW	3	c	30.19	+ .12	52	49	+ 1	ESE	4	bcw	2	63	46	-	
	Belmullet ...	30.08	62	ESE	1	b	30.19	+ .14	55	52	0	NW	1	b	*	63	45	-	
	Donaghadee ...	30.06	56	NE	3	b	30.20	+ .11	50	47	+ 2	NE	4	m	2	58	47	-	
	Liverpool (Bidston)	30.00	54	NE	3	o	30.14	+ .18	59	54	+ 9	N	1	c	2	64	50	0.03	
	Holyhead ...	30.00	53	NNE	3	c	30.13	+ .16	51	49	+ 3	NE	3	cq	3	55	48	-	
	Parsonstown ...	30.05	64	Z	0	b	30.20	+ .15	52	48	+ 3	Z	0	bc	*	65	38	-	
	Valencia ...	30.05	59	N	3	bcm	30.17	+ .13	55	52	- 2	Z	0	bm	1	62	46	-	
	Roche's Point...	30.03	57	SW	1	c	30.15	+ .16	56	52	+ 3	N	2	b	2	61	49	-	
BRITISH ISLANDS.	Pembroke (St. Ann's Hd.)	29.93	55	NNE	2	o	30.08	+ .19	58	55	+ 7	N	2	b	1	58	51	-	
	Scilly ...	29.92	51	N	5	om	30.04	+ .18	51	50	+ 1	N	4	o	4	54	48	-	
	Prawle Point...	29.88	54	ESE	1	o	30.01	+ .17	53	52	+ 3	ESE	1	ogm	0	54	50	-	
	Jersey (St. Aubin's)	29.85	53	NNW	3	om	29.97	+ .18	51	50	+ 1	N	3	cm	3	53	49	0.01	
	Hurst Castle ...	29.84	51	NNE	3	og	29.97	+ .19	54	53	+ 5	NNE	4	bm	2	55	49	-	
	Dungeness ...	29.75	52	NNE	4	m	29.89	+ .20	53	51	+ 3	NNE	5	o	4	52	49	-	
	London ...	29.85	50	N	3	og	29.99	+ .21	54	51	+ 6	N	2	c	*	54	48	-	
	Oxford ...	29.92	48	N	2	o	30.02	+ .20	54	52	+ 7	N	2	b	*	54	47	0.02	
	Cambridge ...	29.90	49	N	1	o	30.03	+ .21	55	50	+ 7	N	1	bc	*	55	44	0.09	
	Yarmouth ...	29.80	48	NNE	4	cm	30.00	+ .24	50	48	+ 3	NNE	3	b	3	50	45	-	
GERMANY & HOLLAND.	Cuxhaven ...	29.85	54	ESE	5	b	29.91	+ .18	52	50	?	E	4	b	*	61	50	-	
	Berlin ...	29.77	72	ESE	2	b	30.00	+ .27	63	59	0	ESE	4	b	*	81	59	-	
	Wiesbaden ...	*	*	*	*	*	29.92	*	57	55	*	NE	2	bc	*	73	50	-	
	Munich ...	29.69	61	SE	1	c	29.92	+ .36	58	54	0	W	3	bc	*	70	50	-	
	The Helder ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-	
FRANCE AND BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	29.92	*	56	55	*	SE	2	o	*	64	50	-	
	Cape Gris Nez	29.74	47	NNE	5	f	29.86	+ .18	49	48	+ 2	N	4	o	4	49	45	-	
	Paris ...	29.75	54	NNW	2	f	29.91	+ .24	50	50	0	NE	1	f	*	55	48	0.43	
	Brest ...	29.91	52	N	3	m	30.02	+ .18	50	49	0	NE	2	m	2	59	48	-	
	Lorient ...	29.85	54	N	3	m	29.98	+ .17	52	50	+ 1	N	2	m	3	59	50	-	
FRANCE AND BELGIUM.	Rochefort ...	29.77	56	NW	4	o	29.91	+ .19	53	52	- 2	NW	3	o	*	59	45	-	
	Belfort ...	?	54	SW	3	c	?	?	54	53	+ 2	S	3	bc	*	63	50	-	
	Lyons ...	29.71	57	NW	2	bc	29.88	+ .25	54	52	+ 3	NW	1	o	*	66	?	-	
	Nice ...	29.69	56	E	6	b	29.73	+ .09	57	50	+ 5	E	4	f	4	63	52	0.04	
	Perpignan ...	29.77	61	NW	4	b	29.82	+ .18	57	52	+ 5	NW	4	o	*	66	52	-	
	Biarritz ...	29.67	55	NNW	5	f	29.97	+ .26	55	53	+ 4	NW	5	f	4	57	46	0.16	
PENINSULA.	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-	
	Lisbon ...	30.04	57	N	6	b	30.06	+ .04	55	51	- 1	N	4	b	5	64	54	-	

For Explanation of Columns, see bottom of p. 4.

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

WEATHER CHARTS

for 8 a.m. on *Monday, 14th May, 1891.*

BAROMETER, WIND, AND SEA.

EXPLANATION OF MAP

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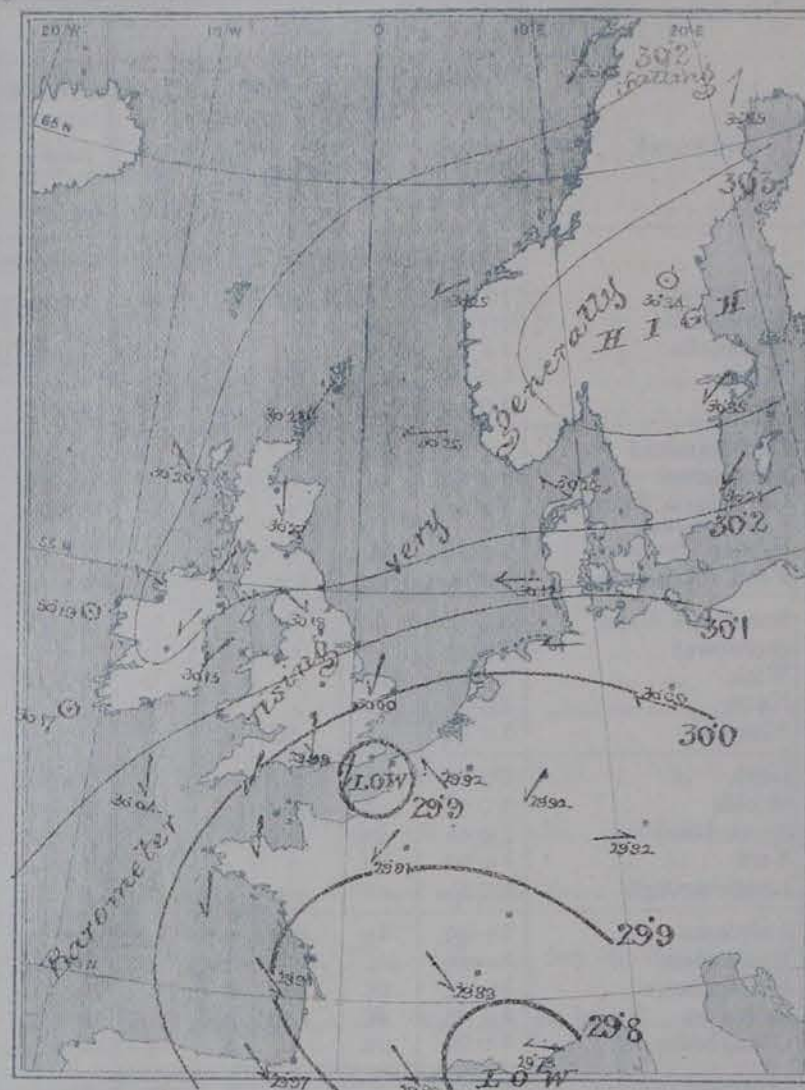
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at 8.0 a.m. for the month of May
During the 20 Years: 1871—1890.

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Sumburgh Head	29.879
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Loughborough	29.973
Ardrossan	29.985
Mullaghmore	29.929
Donaghadee	29.947
Holyhead	29.956
Liverpool	29.961
Parsonstown	29.958
Valencia	29.968
Roche's Point	29.950
Pembroke	29.961
Scilly	29.974
Prawle Point	29.992
Jersey	29.989
Hurst Castle	29.982
Dover	29.970
LONDON	29.981
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			Dry.	Wet.	
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LONDON.....	62.3	44.4	52.6	48.5	1.86
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Cambridge.....	62.0	42.0	51.7	48.5	1.90
Yarmouth.....	55.4	44.9	50.6	48.1	1.86

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 in. and more to 30.7 in. in an anticyclone spreading from Scandinavia across the North Sea and eastwards to Ireland.
Lowest, 29.8 in. and less, in the south of France, and rather below 30.0 in. over Germany, and the southeastern counties of England.

Gradients slight everywhere, almost nil in the north.

Barometer still rising in our Islands, most in the south and southeast, but a fall is in progress in Scotland.

TEMPERATURE

Highest, 63° at Berlin, 56° at Munich and also at Palermo, 57° at Wiesbaden, Nice and Perpignan, 54° in London.

Lowest, 37° at Haparanda, 46° at Vask, 43° at Shields, and 50° at Spinn Ht and Paris.

Over the home and eastern counties of England the maximum temperature recorded yesterday was considerably lower than the reading at 8 am today.

WIND

Moderate to light from the N^o over England and the two Channels, N^oW over the Bay of Biscay, E over North Germany and Denmark. In Ireland and Scotland it is very light and variable, while in Scotland it is S^o to SW^o.

WEATHER

Fine and bright over Scandinavia and the northern and western parts of our Islands, cloudy, but clearing in the southeast of England, hazy or foggy at the Channel stations, dull over France and rainy at Paris.
A further considerable fall of rain occurred at Spinn Ht yesterday.

SEA

Moderate in the south, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A further rise of the barometer has taken place over the whole of our Islands and extended to France and Germany, in which regions the depressions noticed yesterday have filled up. As the barometric rise has become greater at the southern than at the northern of our stations, the gradients for NE winds have decreased, and over our most northern districts have disappeared entirely. The N^o breeze has therefore begun to fall light over England, and as the sky has simultaneously cleared somewhat the thermometer has begun to rise.

The high pressure area in the north appears likely to move southward slowly, and in those circumstances SW^o breezes appear likely to set in at our extreme northern & northwestern stations shortly.

FORECASTS

For the 24 hours ending at NOON on 12th May, 1891.

DISTRICTS.

FORECASTS.

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

Variable and S^o winds; fine, warm.

N^o breezes, moderate to light; fine, dry, very cold tonight.

DISTRICTS.

FORECASTS.

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

Same as N^o 0 and 1.

Same as N^o 2 to 5.

Variable and S^o winds; fine, warm, but cold inland tonight.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	30.14	63	51	NW	4	6	1		Holyhead ...	30.00	52	48	NNE	4	6
Sumburgh Head ...									Valencia ...						
Stornoway ...	30.15	61	55	E	3	6	3		Scilly ...						
Aberdeen ...									Jersey ...	29.82	52	50	NNE	3	3
Shields ...									Dungeness ...	29.73	52	50	NNE	4	3
Ardrossan ...									London ...						*
Malin Head ...	30.11	54	49	E	2	6	0		Yarmouth ...						
Mullaghmore ...									Rochefort ...						
Balmullet ...	30.08	62	57	WNW	2	6	*								

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

Weather in morning fine and bright over Ireland, Scotland, N. E. and central Europe, dull and unsettled elsewhere; rain and mist at several stations in England, France, Spain, Algeria and N. Italy; fog and haze on the south side of the Channel. Rainfall later, somewhat considerable at Spurn Head and Paris, slight at few other English and French stations; weather remaining fine elsewhere.

Temperature falls somewhat over central Europe and in Italy. Morning readings exceeding 60° over the S. and E. parts of the Mediterranean and several parts of N. Germany, but below that value elsewhere. Below 50° over central Russia, N. Europe and the E. half of England, and as low as 37° at Archangel, 39° at Moscow, 40° at Rode, 41° at Haparanda and St. Petersburg, 47° at Spurn Head, Loughborough, Oxford and Cape Gris Nez. Remaining low all day over the E. and S. E. parts of England, but rising to 60° and more in the Hebrides and in many parts of Ireland and France, to 70° and more in S. Germany and to 81° at Berlin.

Wind mainly S. or SE. over eastern and central Europe, E. over north Germany, the Baltic and Denmark, N. over Ireland, England and France, NW. over Spain and W. in Algeria. W. to N. breezes reported over Lapland, Finland and the Gulf of Bothnia.

Barometer Highest (1) 30.3 ins. to 30.1 ins. in an anticyclone over central Russia (2) 30.2 ins. to 30.1 ins. over Norway and the neighbouring parts of the Atlantic and exceeding 30.0 ins. in a col. lying over the Baltic, and uniting the two anticyclones mentioned; exceeding 30.0 ins. over Portugal also, lower elsewhere, and as low as 29.6 ins. and less in a depression over W. Germany and E. France, in another over Sardinia and the neighbouring parts of the Mediterranean, and 29.5 ins. and less in a third lying to the S. of Tunis and Malta. Rising over our Islands and France during day.

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

FROM THE 3rd TO 9th MAY 1891.

In the course of this week we have witnessed a series of decided changes. No sooner had the depression noticed at the close of last week's summary passed away to Scandinavia, than the barometer rose quickly, and in the course of Monday night an anticyclone advanced quickly in a northeasterly direction from the Bay of Biscay to the North Sea, Scandinavia, the Baltic and northern Europe where it lay on Wednesday and Thursday. During its passage the sky cleared generally, the rain ceased even over the western and northern parts of the Kingdom, and temperature rose during the daytime, so that maxima readings exceeding 60° in the shade were reported from some of the English stations on Monday and Tuesday. A large low-pressure area then appeared off our western coasts and began to spread eastwards, S. winds set in, - first at the extreme western, and then at the more eastern stations, accompanied by rainy weather. Temperature again rose; the daily maxima increased to between 60° and 68° over England, but the rainy weather failed to reach the southeastern parts of this country. On the evening of the 7th (Thursday) a very complex series of depressions was developed over our Islands, this occurred between two high-pressure areas, which lay one over northern, the other over southwestern Europe. During the day one of the depressions dispersed, but the remaining portion moved southeasterly and southward to France and the Bay of Biscay, while the barometer rose steadily over the Kingdom. A good deal of rain fell over the western and northern parts of the Kingdom, but very little in the southeast, and as the disturbances passed off gradients for NE. winds became general, temperature fell fast and at the close of the week the sky was clearing decidedly in the west and north, but was decidedly overcast in the south and east.

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

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 TUESDAY 12TH MAY. 1891.
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea. (0 to 5.)	SHADE TEMP.		Amount of Rainfall.		
	Reading at 32° F. and Sea Level.	Dry.	Dirac.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirac.	Force. (0 to 12.)		Max.	Min.			
SCANDINAVIA.	Haparanda ...	29.99	34	2	0	0	29.89	-1.36	50	44	+13	NW	2	0	28	—		
	Hernösand ...	30.22	44	SW	2	0	30.19	-1.15	53	47	+7	WNW	4	0	30	—		
	Stockholm ...	30.34	43	0	2	0	30.26	-1.09	51	44	+1	SW	2	0	34	—		
	Wisby ...	30.29	40	SE	4	0	30.24	+0.03	43	40	-7	W	2	0	37	—		
	Bodö ...	30.08	44	SW	6	0	30.08	-1.07	43	42	-2	SW	2	0	41	0.08		
	Christiansund	30.27	51	WNW	1	0	30.25	0.0	50	48	+3	WNW	2	0	46	—		
	Skudesnaes ...	30.36	54	2	0	0	30.33	+1.07	52	47	-5	ESE	2	0	43	—		
	Christiania Fjord (Færder)	30.28	52	SW	4	0	30.30	+1.01	53	48	+2	N	2	0	50	—		
	Skagen (The Scaw)	30.31	53	2	0	0	30.32	+1.06	53	47	+1	NW	2	0	43	—		
	Fanö ...	30.28	47	ESE	4	0	30.31	+1.19	51	45	-3	E	4	0	41	—		
BRITISH ISLANDS.	Sumburgh Head	30.30	44	SW	1	0	30.18	-1.05	52	49	+2	0	3	38	—			
	Stornoway ...	30.27	54	E	3	0	30.16	-1.04	57	54	+3	0	5	39	—			
	Wick ...	30.32	52	0	1	0	30.22	-1.06	57	52	+11	0	2	42	—			
	Nairn ...	30.25	56	E	1	0	30.19	-1.04	58	53	+11	SW	1	0	38	—		
	Aberdeen ...	30.23	50	ESE	1	0	30.26	-1.01	58	50	+4	ESE	1	0	39	—		
	Leith ...	30.29	53	E	2	0	30.29	+1.04	52	49	+2	E	1	0	38	—		
	Shields ...	30.26	51	WNW	2	0	30.28	+1.10	52	49	+3	NW	3	0	41	—		
	Spurn Head ...	30.18	49	NNE	4	0	30.25	+1.16	50	48	0	NNE	3	0	45	—		
	York ...	30.26	62	NNE	2	0	30.28	+1.14	53	50	-3	NNW	1	0	41	—		
	Loughborough	30.17	62	NE	3	0	30.28	+1.20	53	51	+1	NNE	2	0	46	—		
GERMANY & HOLLAND.	Ardrossan ...	30.24	62	ESE	2	0	30.27	+1.06	61	53	+7	2	0	44	—			
	Malin Head ...	30.22	53	ESE	1	0	30.24	+1.04	56	53	+4	SW	2	0	50	—		
	Mullaghmore ...	30.22	63	WNW	2	0	30.28	+1.09	56	53	+4	2	0	47	—			
	Belmullet ...	30.22	60	NW	2	0	30.30	+1.11	56	54	+1	WNW	1	0	46	—		
	Donaghadee ...	30.23	57	NE	3	0	30.30	+1.10	56	50	+6	SW	3	0	49	—		
	Liverpool (Bidston)	30.17	66	ESE	3	0	30.27	+1.13	62	53	+3	ESE	1	0	50	—		
	Holyhead ...	30.18	53	NNE	3	0	30.25	+1.12	58	54	+7	2	0	49	—			
	Parsonstown ...	30.20	67	2	0	0	30.32	+1.12	55	52	+3	2	0	43	—			
	Valencia ...	30.20	62	N	3	0	30.29	+1.12	58	54	+3	2	0	47	—			
	Roche's Point...	30.21	64	SW	1	0	30.28	+1.13	58	53	+2	N	1	0	52	—		
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.10	60	NNE	4	0	30.27	+1.19	54	52	-4	ESE	2	0	51	—		
	Scilly ...	30.08	53	NNE	4	0	30.22	+1.18	53	53	+2	ESE	3	0	50	—		
	Prawle Point ...	30.07	53	NE	1	0	30.24	+1.23	53	52	0	NE	2	0	50	—		
	Jersey (St. Aubin's)	30.06	56	NW	3	0	30.22	+1.25	53	54	+4	NE	3	0	49	—		
	Hurst Castle ...	30.09	57	0	3	0	30.23	+1.26	49	49	-5	ESE	1	0	47	—		
	Dungeness ...	30.04	53	NNE	1	0	30.15	+1.26	53	52	+2	NNE	4	0	45	—		
	London ...	30.10	64	E	1	0	30.23	+1.24	52	50	-2	NNW	1	0	50	—		
	Oxford ...	30.17	53	NNE	3	0	30.26	+1.24	53	52	+1	NNE	1	0	43	—		
	Cambridge ...	30.14	53	N	2	0	30.25	+1.22	54	52	-1	N	1	0	43	—		
	Yarmouth ...	30.10	53	NNE	3	0	30.20	+1.20	53	53	+3	NNE	3	0	45	—		
GERMANY & HOLLAND.	Cuxhaven ...	30.10	54	E	4	0	30.24	+1.33	50	48	-2	E	4	0	48	—		
	Berlin ...	30.12	66	E	3	0	30.23	+1.23	53	49	-10	ESE	4	0	46	—		
	Wiesbaden ...	30.02	59	NE	2	0	30.09	+1.17	66	60	+9	NE	2	0	59	—		
	Munich ...	30.02	59	NE	2	0	30.10	+1.18	59	53	+1	NE	4	0	46	—		
	The Helder ...	30.10	58	NE	1	0	30.19	+1.19	53	53	0	ESE	1	0	54	—		
	Brussels (9 a.m.)	30.03	49	NE	2	0	30.12	+1.20	57	56	+1	WNW	1	0	48	0.24		
	Cape Gris Nez	30.05	62	SW	1	0	30.15	+1.29	50	49	+1	N	3	0	45	—		
	Paris ...	30.05	62	SW	1	0	30.13	+1.22	58	56	+2	NNW	2	0	49	—		
	Brest ...	30.07	56	NE	2	0	30.19	+1.17	53	51	+3	NE	1	0	46	—		
	Lorient ...	30.05	55	W	1	0	30.17	+1.19	52	52	0	E	1	0	52	—		
FRANCE AND BELGIUM.	Rocheport ...	29.99	57	NW	3	0	30.18	+1.27	57	57	+4	NE	2	0	46	—		
	Belfort ...	29.99	62	N	3	0	30.18	+1.27	61	59	+7	N	3	0	48	—		
	Lyons ...	29.99	62	N	2	0	30.04	+1.16	53	57	+5	N	1	0	54	—		
	Nice ...	29.80	64	NE	4	0	29.88	+1.15	63	52	+6	E	4	0	57	0.04		
	Perpignan ...	29.93	60	NW	4	0	30.00	+1.18	63	43	+6	NW	4	0	57	0.04		
	Biarritz ...	30.07	58	NW	3	0	30.15	+1.18	53	54	0	E	2	0	50	0.04		
	Corunna ...	29.94	58	WNW	5	0	29.95	-1.11	61	53	+6	NNE	4	0	54	—		
	Lisbon ...	29.94	58	WNW	5	0	29.95	-1.11	61	53	+6	NNE	4	0	54	—		
	Peninsular	29.94	58	WNW	5	0	29.95	-1.11	61	53	+6	NNE	4	0	54	—		
	Peninsular	29.94	58	WNW	5	0	29.95	-1.11	61	53	+6	NNE	4	0	54	—		

For Explanation of Columns, see bottom of p. 4.

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

WEATHER CHARTS

for 8 a.m. on Tuesday, 12th May, 1891.

BAROMETER, WIND AND SEA.

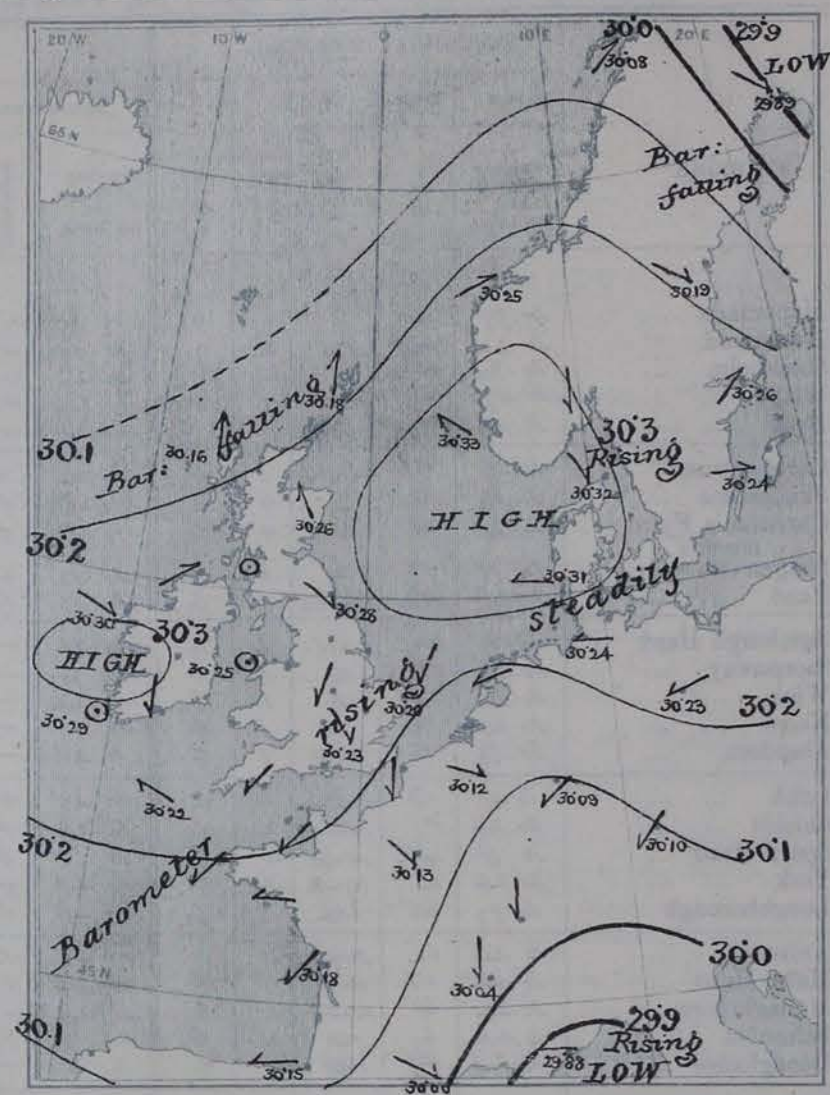
EXPLANATION OF MAP

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 May
During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.879
Stornoway	29.886
Wick	29.901
Nairn	29.908
Aberdeen	29.918
Leith	29.932
Shields	29.943
Spurn Head	29.956
York	29.962
Loughborough	29.973
Ardrossan	29.935
Mullaghmore	29.929
Donaghadee	29.947
Holyhead	29.956
Liverpool	29.961
Parsonstown	29.958
Valencia	29.963
Roche's Point	29.959
Penbroke	29.961
Scilly	29.974
Prawle Point	29.992
Jersey	29.989
Hurst Castle	29.982
Dover	29.970
LONDON	29.981
Oxford	29.981
Cambridge	29.976
Yarmouth	29.967



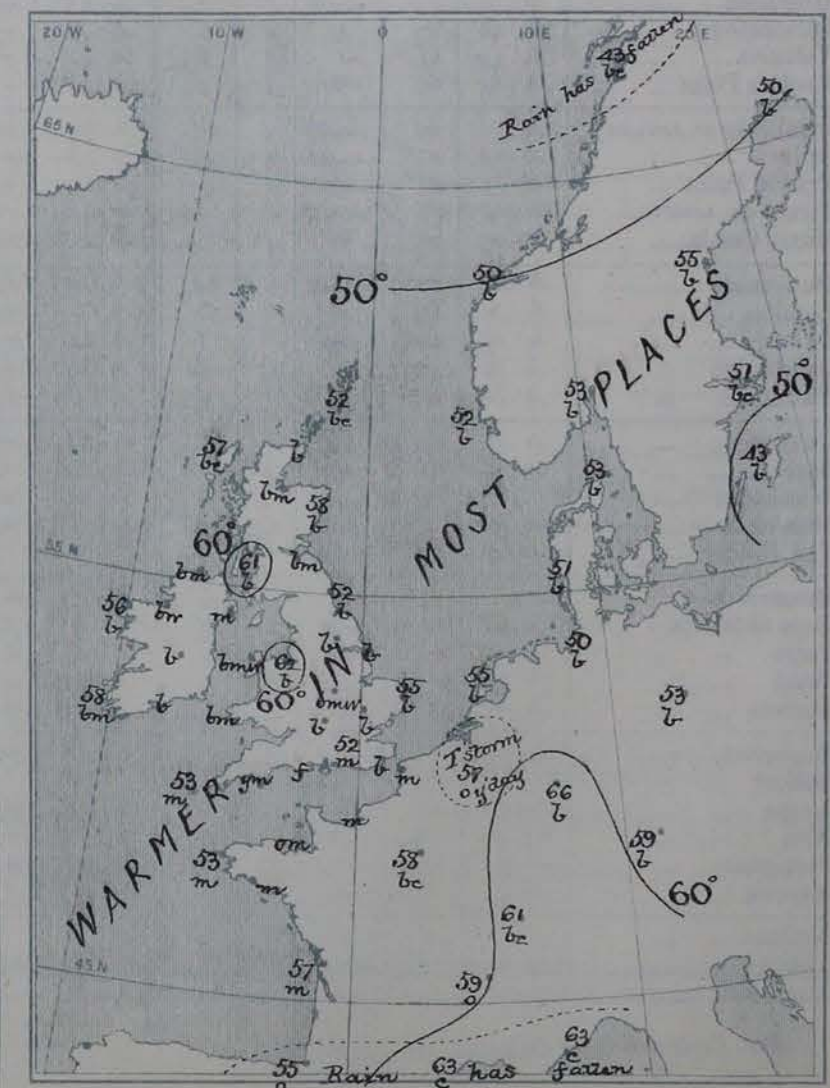
TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

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 May.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	50.3	40.2	46.1	44.0	1.72
Stornoway	53.3	41.1	48.6	46.4	2.61
Wick.....	53.9	40.6	48.1	45.6	1.69
Nairn	56.3	42.2	48.6	45.4	1.61
Aberdeen	55.0	41.9	48.9	45.4	1.99
Leith	57.8	42.4	50.1	45.7	1.67
Shields	54.4	42.9	49.0	46.0	1.69
Spurn Head.....	54.3	45.1	49.3	47.2	1.57
York	59.6	42.2	49.8	46.7	1.85
Loughborough	61.7	42.6	51.1	47.7	2.09
Ardrossan	56.5	43.9	49.5	46.7	2.34
Mullaghmore	56.7	46.3	50.2	47.4	2.42
Donaghadee.....	56.0	44.2	49.6	47.5	2.26
Holyhead.....	56.2	46.2	50.5	48.0	1.90
Liverpool	58.0	45.0	50.8	46.9	1.84
Parsonstown	59.5	42.7	51.0	47.8	2.24
Valencia	58.1	46.3	52.8	49.7	3.20
Roche's Point	58.9	46.2	51.7	48.8	3.14
Penbroke.....	55.0	45.9	49.9	47.7	2.03
Scilly	56.3	48.2	52.7	50.3	1.73
Prawle Point	56.6	45.3	51.4	49.4	1.56
Jersey	59.4	47.2	53.6	50.5	1.87
Hurst Castle	58.6	45.7	51.6	49.9	1.78
Dover	57.0	46.7	52.5	49.3	1.79
LONDON	62.3	44.4	52.5	48.5	1.86
Oxford	60.6	43.4	50.6	47.5	1.95
Cambridge	62.0	42.0	51.7	48.5	1.90
Yarmouth	55.4	44.9	50.6	48.1	1.86

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 in: to 30.2 in: in a broad band of high-pressure stretching from the Atlantic across our islands and the North Sea to the Baltic and south of Scandinavia.
 Lowest, 29.9 in: and less, over the Kola Peninsula, and also over the Gulf of Genoa; about 30.1 in: off the north of Scotland, over the southern half of France, and in Spain.
 Gradients slight, especially over Ireland, England, and the North Sea.
 Barometer not changing much at any station.

TEMPERATURE

Highest, 66° at Wiesbaden, 63° at Nice and Perpignan, 62° at Liverpool, 61° at Lisbon, Belfort, and Andriessan.
 Lowest, 43° at Bodø and Nisby, 50° at Spurn H^d, 52° at Lumburg H^d and Shields.
 The daily maxima recorded over England yesterday ranged between 65° and 70° in many places, that in London was 75°.

WIND

S² in the Hebrides, Shetlands and north of Scotland, SW⁴ to W² over the northern part of Scandinavia; nearly calm over the greater part of our islands, but N² to E² over our southern districts, E² to NE² over the Netherlands, the north of France and Bay of Biscay.

WEATHER

Fine generally, but hazy, in several places. Some rain has fallen over the southern part of France and at Bodø; at Brussels a sharp thunderstorm has occurred with more than a quarter of an inch of rain.

SEA

Moderate in the Minch and at Scilly, slight to very smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A slight fall of the barometer has now set in in the extreme north of our islands and over Norway, while over all the more southern parts of our area a rise has occurred. The high-pressure area is consequently moving southwards, the N² and NE² winds are decreasing in force, and SW² to S² breezes are appearing at the northern stations, and are blowing freely at Stornoway. The change does not seem to be moving southwards at all quickly.

FORECASTS

For the 24 hours ending at NOON on 13th May. 1891.

DISTRICTS.

FORECASTS.

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

S² to W² winds, fresh; some rain.
 Varying and S² breezes, light; fine, warm.
 Varying N² airs and light breezes; fine, cold inland during night.

DISTRICTS.

FORECASTS.

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

Same as No. 0
 Varying airs, fine generally, hazy.
 NE² breezes, light; fine.
 Same as No. 0
 Same as No. 7.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	30.23	62	52	W	2	C	1		Holyhead ...	30.20	52	49	NNE	4	bc
Sumburgh Head ...	30.28	51	50	2	0	C	1		Valencia ...	30.21	66	58	N	3	bc
Stornoway ...	30.27	61	57	2	2	C	2		Scilly ...	30.06	53	51	NNE	4	C
Aberdeen ...	30.31	52	48	ESE	2	C	2		Jersey ...	30.03	58	52	N	3	om
Shields ...	30.24	56	50	NNW	3	bc	3		Dungeness ...	30.00	54	53	NNE	4	C
Ardrossan ...	30.24	61	54	NE	2	0	1		London ...	30.18	72	65	NNE	1	bc
Malin Head ...	30.25	58	48	NNE	1	C	0		Yarmouth ...	30.08	54	50	NNE	4	C
Mullaghmore ...	30.22	60	53	WNW	3	C	2		Rocheport ...	30.02	57	55	WNW	3	0
Belmullet ...	30.23	66	58	N	1	C	*								

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

Weather fine and bright over the British Isles, the North Sea, the Baltic, and northern Europe generally, also over Spain, Germany, Austria, and many parts of southeastern Europe; dull over France, cloudy and unsettled over the Mediterranean, with rain at several stations. Slight rain in south of France later, a thunderstorm at Brussels, and a little rain at Rome. A good deal of haze or fog in the English Channel.

Temperature changing fitfully; morning readings exceeding 60° at the Mediterranean stations and some parts of Germany, and exceeding 50° over Western Europe and the greater part of the British Islands. Lower elsewhere, as low as 32° at Archangel, 37° at Haparanda, 42° at St. Petersburg, 45° at Helsingfors, 46° at Wick, 48° at New Fahrwasser, 49° at Shields. Rising fast during day to between 60° and 70° in many parts of Great Britain and France, to 72° at Belfast, to 75° at Brussels, Berlin, and in London, and to 77° at Wiesbaden.

Wind light and extremely variable over Ireland, Scotland and the northern half of Scandinavia, mainly E³ to N³ over the Baltic, Germany, Holland, England and the north of France, NW² over the Bay of Biscay. Strong to moderate N³ over the north of Italy, fresh NW² over Tunis; very light and variable over central and southeastern Europe.

Barometer highest (1) 30.3 in. to 30.1 in. over Ireland, the northern parts of Great Britain, the Baltic, and Scandinavia; (2) 30.1 in. to 30.0 in. over southern Russia; (3) 30.0 in. and more over the western half of Spain. Lowest 29.4 in. and less, in a large depression over the Mediterranean having its centre near Malta and below 30.0 in. all over France, Germany, western, and central Russia. Rising over our Islands till night, then falling a little in the extreme north and over Lapland.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

* AN ASTERISK is inserted in all places for which information is not usually received. The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark the observations are taken at 8 p.m. (Christiania time).

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

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

DAILY WEATHER REPORT.

for *Wednesday, 13th May, 1891.*
 Issued by the Meteorological Office, 63, Victoria Street, London. *R. H. SCOTT, Secretary.*

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
	Reading at 32° F. and Sea Level.	Dry.	Direc.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...	29.87	38	Z	0	c	29.32	- 57	40	38	- 10	SW	2	bc	*	55	34	0.16
	Hernösand ...	29.92	48	SW	2	bc	29.62	- 57	58	48	+ 3	WNW	2	c	*	55	37	-
	Stockholm ...	30.11	50	S	2	b	29.80	- 46	56	47	+ 5	SW	2	c	*	64	39	-
	Wisby ...	30.16	46	SW	4	b	29.91	- 33	53	45	+ 10	WSW	4	bc	*	57	36	-
	Bodö ...	29.69	42	Z	0	f	29.46	- 62	41	40	- 2	WSW	6	0	8	46	39	0.89
	Christiansund	29.77	57	SW	9	0	29.87	- 38	45	43	- 5	WNW	2	f	4	57	45	0.04
	Skudesnaes ...	30.18	49	SSW	4	0	30.00	- 33	50	47	- 2	W	4	0	2	54	45	-
	Christiania Fjord (Fæder)	30.09	54	SSW	3	b	29.87	- 43	51	47	- 2	WSW	5	bc	2	57	50	-
	Skagen (The Scaw)	30.16	50	W	2	b	29.97	- 35	53	46	0	W	3	b	3	61	46	-
	Fanö ...	30.21	50	NW	2	b	30.08	- 23	58	50	+ 7	WSW	1	b	*	64	41	-
BRITISH ISLANDS.	Sumburgh Head	30.02	51	WSW	6	0	30.03	- 15	45	43	- 7	N	1	0	4	59	36	0.01
	Stornoway ...	30.18	55	SW	5	c	30.06	- 10	49	49	- 8	NE	2	r	3	63	45	0.05
	Wick ...	30.18	63	NW	3	0	30.10	- 12	49	47	- 8	Z	0	0	1	71	42	-
	Nairn ...	30.15	64	W	3	c	30.05	- 14	57	54	- 1	SW	2	c	1	72	50	-
	Aberdeen ...	30.15	65	NNE	1	bc	30.11	- 15	49	47	- 9	SSW	2	0	1	69	48	0.01
	Leith ...	30.20	70	W	1	bc	30.15	- 14	55	52	+ 3	W	4	cm	*	72	50	-
	Shields ...	30.22	54	E	2	bc	30.15	- 13	60	54	+ 8	NW	3	c	2	60	48	-
	Spurn Head ...	30.22	49	NE	1	b	30.14	- 11	53	51	+ 3	WNW	2	bc	2	56	47	-
	York ...	30.21	73	ESE	1	b	30.17	- 11	61	54	+ 8	WNW	1	b	*	75	45	-
	Loughborough	30.21	76	Z	0	b	30.19	- 09	64	57	+ 9	WNW	2	bcnw	*	81	50	-
GERMANY & HOLLAND.	Ardrossan ...	30.26	68	W	3	c	30.21	- 06	51	50	- 10	Z	0	0	0	64	48	-
	Malin Head ...	30.31	51	W	2	0	30.21	- 03	50	50	- 6	WSW	4	of	2	61	48	-
	Mullaghmore ...	30.33	50	WSW	4	0	30.29	+ 01	52	51	- 4	SW	4	orm	3	61	48	-
	Belmullet ...	30.35	53	NW	2	0	30.31	+ 01	51	51	- 5	W	2	og	*	60	48	0.02
	Donaghadee ...	30.28	59	NNE	2	b	30.26	- 04	52	51	- 4	WNW	3	m	1	62	52	-
	Liverpool (Bidston)	30.26	59	WNW	1	b	30.24	- 03	55	51	- 7	WNW	1	b	2	64	49	-
	Holyhead ...	30.28	56	N	1	b	30.26	+ 01	55	51	- 3	WNW	1	bw	1	60	47	-
	Parsonstown ...	30.27	74	Z	0	bc	30.33	+ 01	50	49	- 5	Z	0	0	*	75	46	-
	Valencia ...	30.32	59	WNW	4	bcq	30.37	+ 08	54	52	- 4	N	2	0	2	67	48	-
	Roche's Point...	30.29	58	SE	1	b	30.31	+ 03	53	49	- 5	NW	4	b	3	63	50	-
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.26	57	NW	2	b	30.24	- 03	63	59	+ 9	NNE	2	bc	1	64	50	-
	Scilly ...	30.29	54	NNE	2	c	30.26	+ 04	53	53	0	WNW	4	m	4	56	51	-
	Prawle Point ...	30.24	57	NW	2	b	30.21	- 03	67	63	+ 14	NE	1	bm	0	68	52	-
	Jersey (St. Aubin's)	30.22	61	WNW	3	b	30.21	- 01	60	56	+ 5	NW	1	bm	3	65	54	-
	Hurst Castle ...	30.20	61	W	2	b	30.20	- 03	58	54	+ 9	NW	1	m	1	66	48	-
	Dungeness ...	30.16	60	Z	0	m	30.16	+ 01	61	60	+ 6	ESE	1	m	0	68	48	-
	London ...	30.19	75	N	1	b	30.17	- 06	61	58	+ 9	Z	0	mw	*	78	51	-
	Oxford ...	30.22	65	NE	1	b	30.19	- 07	63	57	+ 8	NW	1	bm	*	76	53	-
	Cambridge ...	30.21	68	N	5	b	30.18	- 07	61	58	+ 7	N	1	c	*	75	46	-
	Yarmouth ...	30.21	54	NNE	3	b	30.15	- 05	55	52	0	NNE	2	b	2	57	45	-
PENIN- SULA.	Cuxhaven ...	30.25	55	E	3	b	30.17	- 07	56	54	+ 6	SE	1	b	*	60	50	-
	Berlin ...	30.14	62	NNE	5	b	30.08	- 15	55	50	+ 2	N	2	b	*	70	46	-
	Wiesbaden ...	*	*	*	*	*	30.08	- 01	60	54	- 6	NNE	2	b	*	77	50	0.04
	Munich ...	30.08	60	E	3	b	30.08	- 02	57	53	- 2	NE	1	b	*	72	46	-
	The Helder ...	30.19	57	ENE	1	b	30.12	- 07	55	52	0	WNW	1	b	1	61	54	-
	Brussels (9 a.m.)	*	*	*	*	*	30.12	00	61	58	+ 4	NW	2	b	*	78	52	0.04
	Cape Gris Nez	30.15	52	NE	3	m	30.15	00	55	51	+ 5	E	2	m	1	59	46	-
	Paris ...	30.08	73	NNE	2	bc	30.14	+ 01	60	57	+ 2	N	2	b	*	73	53	0.08
	Brest ...	30.26	57	NE	1	c	30.26	+ 07	50	49	- 3	NE	1	m	2	63	48	-
	Lorient ...	30.21	59	W	2	b	30.23	+ 06	53	51	+ 1	NE	1	b	2	63	52	-
PENIN- SULA.	Rochefort ...	30.15	59	WNW	4	bc	30.14	- 04	58	57	+ 1	WNW	3	b	*	66	48	-
	Belfort ...	?	65	NW	2	c	?	?	60	56	- 1	W	3	c	*	75	48	0.32
	Lyons ...	29.99	68	WNW	2	0	30.04	00	61	56	+ 2	N	2	0	*	73	57	-
	Nice ...	29.91	67	SE	1	c	29.94	+ 06	65	65	+ 2	E	1	c	0	77	59	-
	Perpignan ...	29.99	70	NW	5	0	30.01	+ 01	68	61	+ 5	NW	3	bc	*	75	63	-
	Biarritz ...	30.19	67	WNW	3	bc	30.17	+ 02	57	55	+ 2	W	5	0	2	62	55	-
	Corunna ...	*	*	*	*	*	30.04	+ 04	64	60	+ 3	SSW	2	bc	?	79	61	-
	Lisbon ...	29.99	70	NW	3	bc	30.04	+ 04	64	60	+ 3	SSW	2	bc	?	79	61	-

For Explanation of Columns, see bottom of p. 4.

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

WEATHER CHARTS

for 8 a.m. on WEDNESDAY, 13th May, 1891.

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.

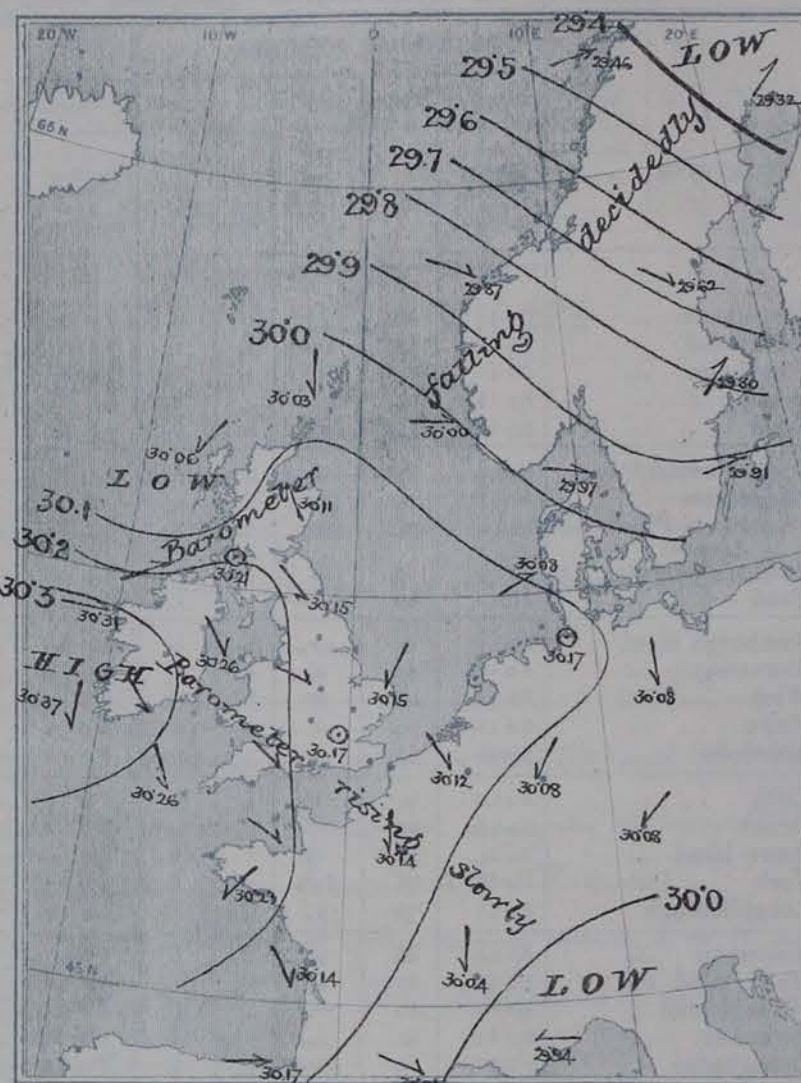
SEA DISTURBANCE—Where considerable, is shown thus:

▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.879
Stornoway	29.886
Wick	29.901
Nairn	29.908
Aberdeen	29.918
Leith	29.932
Shields	29.943
Spurn Head	29.956
York	29.962
Loughborough	29.973
Ardrossan	29.935
Mullaghmore	29.929
Donaghadee	29.947
Holyhead	29.958
Liverpool	29.961
Parsonstown	29.958
Valencia	29.963
Roche's Point	29.959
Pembroke	29.961
Scilly	29.974
Prawle Point	29.992
Jersey	29.989
Hurst Castle	29.982
Dover	29.970
LONDON	29.981
Oxford	29.981
Cambridge	29.976
Yarmouth	29.967



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.

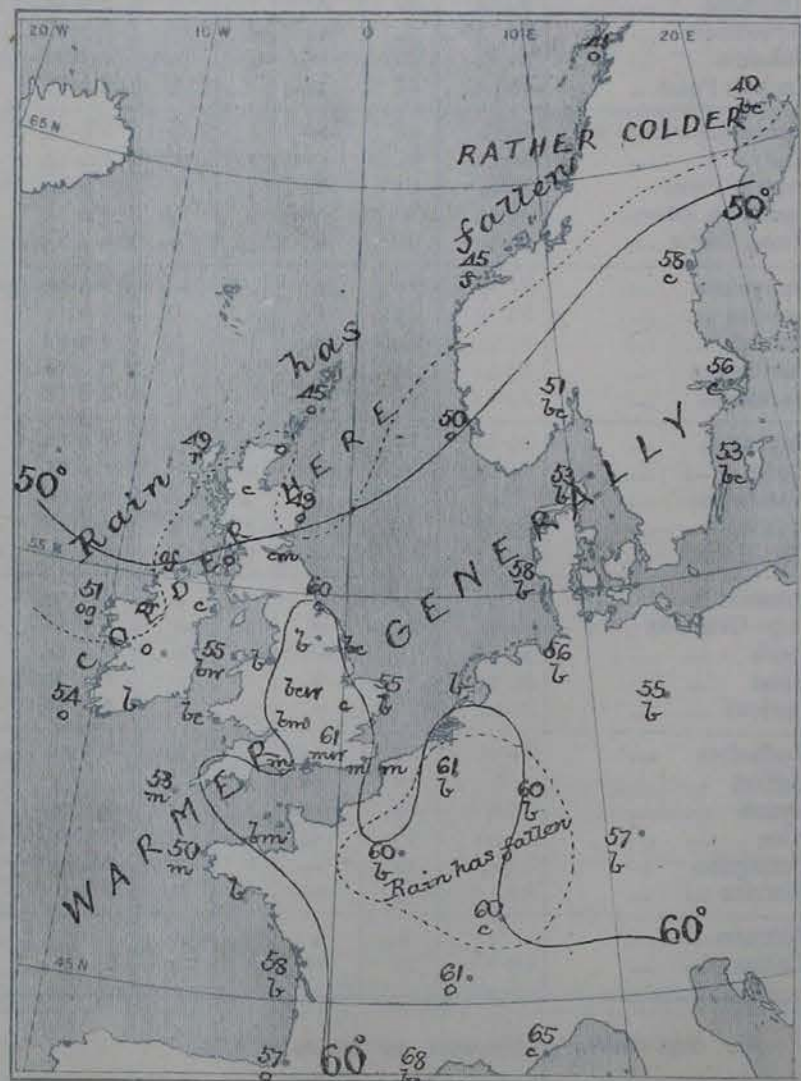
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of May.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	50.3	40.2	46.1	44.0	1.72
Stornoway.....	53.3	41.1	48.6	46.4	2.61
Wick.....	53.9	40.6	48.1	45.8	1.69
Nairn.....	56.3	42.2	48.6	45.4	1.61
Aberdeen.....	55.0	41.9	48.9	45.4	1.99
Leith.....	57.8	42.4	50.1	45.7	1.67
Shields.....	54.4	42.9	49.0	46.0	1.69
Spurn Head.....	54.3	45.1	49.3	47.2	1.57
York.....	59.6	42.2	49.8	46.7	1.85
Loughborough.....	61.7	42.6	51.1	47.7	2.09
Ardrossan.....	56.5	43.9	49.5	46.7	2.34
Mullaghmore.....	56.7	46.3	50.2	47.4	2.42
Donaghadee.....	56.0	44.2	49.6	47.5	2.26
Holyhead.....	56.2	46.2	50.5	48.0	1.90
Liverpool.....	58.0	45.0	50.8	48.9	1.84
Parsonstown.....	59.5	42.7	51.0	47.8	2.24
Valencia.....	58.1	46.3	52.8	49.7	3.20
Roche's Point.....	58.9	46.2	51.7	48.8	3.14
Pembroke.....	55.0	45.9	49.9	47.7	2.03
Scilly.....	56.3	48.2	52.7	50.3	1.73
Prawle Point.....	56.6	45.3	51.4	49.4	1.56
Jersey.....	59.4	47.2	53.6	50.5	1.87
Hurst Castle.....	58.6	45.7	51.6	49.9	1.78
Dover.....	57.0	46.7	52.5	49.3	1.79
LONDON.....	62.3	44.4	52.5	48.5	1.86
Oxford.....	60.6	43.4	50.6	47.5	1.95
Cambridge.....	62.0	42.0	51.7	48.5	1.90
Yarmouth.....	55.4	44.9	50.6	48.1	1.86

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 in. to 30.1 in. in an anticyclone stretching from the Atlantic over Ireland, England, and the greater part of the North Sea, France, and the Bay of Biscay.
 Lowest, (1) 29.4 in. and less, over Lapland; 30.0 in. and less, over the Gulf of Genoa.

Gradients moderate over Sweden and Norway, very slight in our Islands and over the North Sea.

Barometer falling except at our most southern and south-western stations.

TEMPERATURE

Highest, 68° at Perpignan, 67° at Hawke Point, 65° at Nice, 63° at Oxford, 61° in London, 60° at Paris and North Shields, 58° at Amsterdam.

Lowest, 40° at Haparanda and 41° at Bodø, 45° at Christiansund and Lumburg H^{ts}, 49° at Wick and Aberdeen, 50° at Malin H^t.

The fall since yesterday in the northern parts of Ireland and in Scotland has been very decided.

WIND

SW³ to W³, moderate to strong, over Norway; W³, light, in Denmark, very variable and light in Scotland;

SW⁴, moderate, in the north of Ireland; and NW³ to N³, light, over England and France.

WEATHER

Very dull at all the western and extreme northern stations; rain is falling at Stornoway and Mullaghmore, fog is prevalent at Christiansund and Malin.

The rainfall measured at Bodø this morning, was 0.39 in. Over England and France the weather is still very fine, and the air hazy in several places.

SEA

Moderate in the extreme north and at Lally, smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Large disturbances have been advancing towards Lapland and the other northern parts of Scandinavia during the past twenty-four hours, and this morning's observations show that a well-marked secondary system has reached Scotland from the north-westward. Temperature has fallen fast at the Scotch stations and in the north of Ireland, the sky has become overcast in those regions, and in some places rain is falling. The disturbances seem to be moving in a southeasterly direction and to be spreading southwards, so that their unsettled and colder weather is likely to reach England shortly.

FORECASTS

For the 24 hours ending at NOON on 14th May

1891.

DISTRICTS.

FORECASTS.

0 SCOTLAND NORTH

1 SCOTLAND EAST

2 ENGLAND N.E.

3 ENGLAND EAST

4 MIDLAND COUNTIES

5 ENGLAND SOUTH

Varying winds, light; rainy, unsettled.

SW³ to NW³ winds; fine and warm to dull, rainy and colder.

Same as N°5

Same as N°2

NW³ to W³ breezes, light; fine and warm today, probably unsettled tomorrow.

DISTRICTS.

FORECASTS.

6 SCOTLAND WEST

7 ENGLAND N.W.

8 ENGLAND S.W.

9 IRELAND NORTH

10 IRELAND SOUTH

Same as N°s 0 and 1.

W³ and NW³ breezes; fine to rainy.

NW³ breezes, moderate, fair to unsettled.

Same as N°s 0 and 1

Same as N°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:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	30.29	54	49	S	2	c	1		Holyhead ...	30.28	58	54	NW	1	b
Sumburgh Head ...	30.09	53	50	SW	3	c	3		Valencia ...	30.31	65	57	NNW	4	bm
Stornoway ...	30.15	59	57	W	5	o	4		Scilly ...	30.27	56	54	ESE	3	o
Aberdeen ...	30.18	62	53	S	3	bc	2		Jersey ...	30.24	64	58	NW	3	bc
Shields ...	30.24	52	49	E	2	b	3		Dungeness ...	30.17	64	60	E	1	m
Ardrossan ...	30.26	64	56	SSW	1	b	1		London ...	30.20	74	66	Z	0	b
Malin Head ...	30.26	59	53	WSW	2	bc	1		Yarmouth ...	30.23	57	54	NNE	3	b
Mullaghmore ...	30.31	58	54	W	3	cm	3		Rocheport ...	30.13	65	61	NW	4	b
Belmullet ...	30.33	56	54	WNW	2	c	*								

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

Weather fine over the greater part of our Islands and the Continent, but hazy at several of the British and French stations. Dull over northern Russia (with rain at Kuopio) as well as in Algeria and the south of Italy. Subsequently becoming cloudy in the extreme north of Scotland and the west of Norway.

Temperature highest 72° at Palma, 71° at Lecina, 69° at Barcelona and Trieste, and 68° at Toulon; above 60° over southern Europe generally, as well as over Austria and western Germany, but below that point at several of the Algerian stations. Lowest, 32° at Archangel, 35° at Moscow, 41° at Kharkov, and 42° at St. Petersburg; below 50° at most of the Russian stations, as well as in the north of Scandinavia. Rapid rise taking place during day over the inland parts of the United Kingdom, thermometer reaching 75° at Banonstown, 78° in London, and 81° at Loughboro'.

Wind light or moderate from the NE^W (N to E) over the southern half of the United Kingdom and greater part of central, southern, and eastern Europe; NW in Algeria. Light from the S^W in the north of Scotland, from the SW^W in the west of Norway, and from the W^W over Sweden and the north of Russia. Subsequently, veering to the SW^W in the north of Scotland, and increasing to a fresh or strong breeze.

Barometer highest 30.1 ins. to 30.3 ins. or a little more in a large anticyclone embracing all but the extreme northern and southern part of Europe. Lowest 29.6 ins. and less, in a depression lying off the coast of Tunis, 29.9 ins. and less, in a long shallow disturbance over Lapland. New depression with readings below 29.9 ins. subsequently approaching the west of Norway from the Atlantic.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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

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„ Weekly „ „ „ „ £1 10 0 „

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for *Thursday 14th May.* 1891.
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
	Reading at 32° F. and Sea Level.	Dry.	Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...	29.39	41	W	2	b	29.39	+0.7	42	36	+2	N	2	c	*	54	34	—
	Hernösand ...	29.59	48	W	2	bc	29.45	-1.5	45	40	-13	NW	2	c	*	70	43	—
	Stockholm ...	29.58	57	W	2	o	29.31	-4.9	40	39	-16	NW	6	p	*	64	43	—
	Wishby ...	29.64	53	W	4	o	29.31	-6.0	47	44	-6	W	4	bc	*	64	41	—
	Bodö ...	29.54	37	W	6	c	29.47	+0.1	38	38	-3	N	2	c	1	43	32	0.04
	Christiansund	29.74	48	W	5	o	29.53	-3.2	44	42	-1	SW	7	o	4	46	41	0.08
	Skudesnaes ...	29.88	45	W	4	o	29.78	-2.2	47	44	-3	NW	4	c	2	50	41	—
	Christiania Fjord (Færder)	29.57	53	W	3	o	29.62	-2.5	46	43	-3	W	3	bc	3	53	43	0.04
	Skagen (The Scaw)	29.65	47	W	6	o	29.63	-3.4	48	43	-5	W	5	bc	4	53	45	—
	Fanö ...	29.89	47	W	4	c	29.86	-2.2	50	48	-2	NW	6	c	*	59	45	—
BRITISH ISLANDS.	Sumburgh Head	29.92	48	W	4	c	29.77	-2.6	44	44	-1	W	2	p	3	50	41	0.12
	Stornoway ...	30.15	52	NW	4	bc	29.87	-1.9	48	47	-1	W	4	o	4	54	43	0.05
	Wick ...	30.09	48	NW	5	c	29.85	-2.5	47	46	-2	W	1	o	1	53	40	0.15
	Nairn ...	30.10	52	W	3	c	29.91	-1.4	48	43	-5	W	4	bc	1	59	43	0.16
	Aberdeen ...	30.08	53	NW	4	bc	29.93	-1.8	50	43	+1	SW	2	c	1	57	42	0.04
	Leith ...	30.07	61	W	3	c	30.04	-1.1	52	46	-3	W	3	bc	*	63	42	—
	Shields ...	30.05	61	W	4	bc	30.04	-1.1	51	47	-3	W	2	c	2	69	45	—
	Spurn Head ...	30.03	54	W	3	bc	30.07	-0.7	51	46	-2	N	1	bc	1	61	47	—
	York ...	30.07	67	W	3	bc	30.10	-0.7	53	47	-3	W	1	bc	*	76	45	—
	Loughborough	30.11	65	W	4	bc	30.13	-0.6	54	49	-10	NW	2	bc	*	75	50	—
GERMANY & HOLLAND.	Ardrossan ...	30.16	54	W	2	bc	30.06	-1.5	50	48	-1	SW	2	o	2	56	45	—
	Malin Head ...	30.21	57	NW	3	bc	30.08	-1.3	49	47	-1	W	4	o	2	52	47	—
	Mullaghmore ...	30.29	52	NW	3	o	30.18	-1.1	50	48	-2	W	5	p	3	53	43	—
	Belmullet ...	30.31	52	N	2	o	30.20	-1.1	51	49	0	W	2	o	*	53	46	—
	Donaghadee ...	30.21	53	NW	3	c	30.14	-1.2	50	46	-2	W	3	c	2	62	50	—
	Liverpool (Bidston)	30.18	53	W	3	c	30.15	-0.9	49	46	-6	W	3	bc	3	58	46	—
	Holyhead ...	30.21	53	W	1	o	30.18	-0.8	52	49	-3	NW	1	c	1	53	46	—
	Parsonstown ...	30.26	60	NW	1	c	30.24	-0.5	51	47	+1	W	0	c	*	63	43	—
	Valencia ...	30.32	56	NW	2	c	30.28	-0.9	53	50	-1	N	1	o	1	61	44	—
	Roche's Point...	30.26	59	NW	3	bc	30.23	-0.8	54	50	+1	NW	3	bc	3	62	50	—
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.22	56	N	3	bc	30.20	-0.4	52	49	-1	NNE	3	bc	2	65	46	—
	Scilly ...	30.23	53	NW	4	c	30.20	-0.6	53	52	0	NNE	3	c	3	59	52	—
	Prawle Point ...	30.14	61	NW	1	bc	30.14	-0.7	62	57	-5	NNE	1	bc	0	74	53	—
	Jersey (St. Aubin's)	30.14	70	NW	3	bc	30.11	-1.0	57	54	-3	NNE	3	bc	3	74	53	—
	Hurst Castle ...	30.10	76	W	2	bc	30.12	-0.8	56	50	-2	NNE	3	bc	1	77	52	—
	Dungeness ...	30.02	52	W	1	m	30.05	-1.1	56	52	-5	E	3	bc	0	61	50	—
	London ...	30.08	72	NW	2	c	30.09	-0.8	56	52	-5	NW	1	o	*	70	52	—
	Oxford ...	30.13	61	N	3	bc	30.12	-0.7	52	49	-11	NW	2	o	*	76	51	—
	Cambridge ...	30.07	69	NW	1	c	30.11	-0.7	56	52	-5	N	1	c	*	80	49	—
	Yarmouth ...	30.05	60	N	0	bc	30.08	-0.7	51	48	-4	NE	3	bc	3	65	47	—
GERMANY & HOLLAND.	Cuxhaven ...	29.98	50	NW	2	c	29.93	-1.24	49	48	-7	NW	5	bc	*	59	44	—
	Berlin ...	29.87	47	NW	2	bc	29.84	-1.24	53	51	0	NW	4	bc	*	73	53	—
	Wiesbaden ...	*	*	*	*	*	29.98	-1.0	59	55	-1	NW	2	bc	*	75	53	—
	Munich ...	29.97	62	N	0	bc	30.00	-1.08	56	50	-1	NW	5	bc	*	72	54	0.20
	The Helder ...	30.03	53	NW	1	bc	30.04	-0.8	49	46	-6	NNE	2	bc	3	55	44	—
	Brussels (9 a.m.)	*	*	*	*	*	30.02	-1.0	57	53	-4	N	2	c	*	73	49	—
	Cape Gris Nez	30.07	57	E	1	m	30.04	-1.1	52	50	-3	NNE	3	bc	2	66	50	—
	Paris ...	30.05	73	N	3	bc	30.05	-1.09	60	57	0	NNE	2	bc	*	70	52	—
	Brest ...	30.21	58	N	3	bc	30.19	-0.7	50	49	0	N	3	bc	2	64	46	—
	Lorient ...	30.12	67	N	3	bc	30.12	-1.1	54	51	+1	N	1	bc	2	70	52	—
FRANCE AND BELGIUM.	Rochefort ...	30.09	62	NW	4	c	30.09	-0.5	60	59	+2	NNE	1	bc	*	72	50	—
	Belfort ...	30.09	65	W	3	bc	30.09	-0.5	61	59	+1	W	1	bc	*	73	45	—
	Lyons ...	29.98	67	N	1	c	29.98	-0.6	63	57	+2	N	1	bc	*	71	51	—
	Nice ...	29.90	70	SW	2	bc	29.87	-0.7	67	57	+2	NE	2	bc	0	79	61	—
	Perpignan ...	29.98	68	NW	3	o	29.96	-0.5	65	59	-3	NW	4	c	*	78	63	—
	Biarritz ...	30.13	58	W	3	o	30.10	-0.7	57	55	0	NW	3	o	2	68	55	0.20
	Corunna ...	29.98	69	NW	4	c	29.94	-1.0	66	58	+2	SE	2	c	2	75	64	0.04
	Lisbon ...	29.98	69	NW	4	c	29.94	-1.0	66	58	+2	SE	2	c	2	75	64	0.04
	Corunna ...	29.98	69	NW	4	c	29.94	-1.0	66	58	+2	SE	2	c	2	75	64	0.04
	Lisbon ...	29.98	69	NW	4	c	29.94	-1.0	66	58	+2	SE	2	c	2	75	64	0.04

For Explanation of Columns, see bottom of p. 4.

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

WEATHER CHARTS

for 8 a.m. on Thursday, 14th May, 1891.

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:

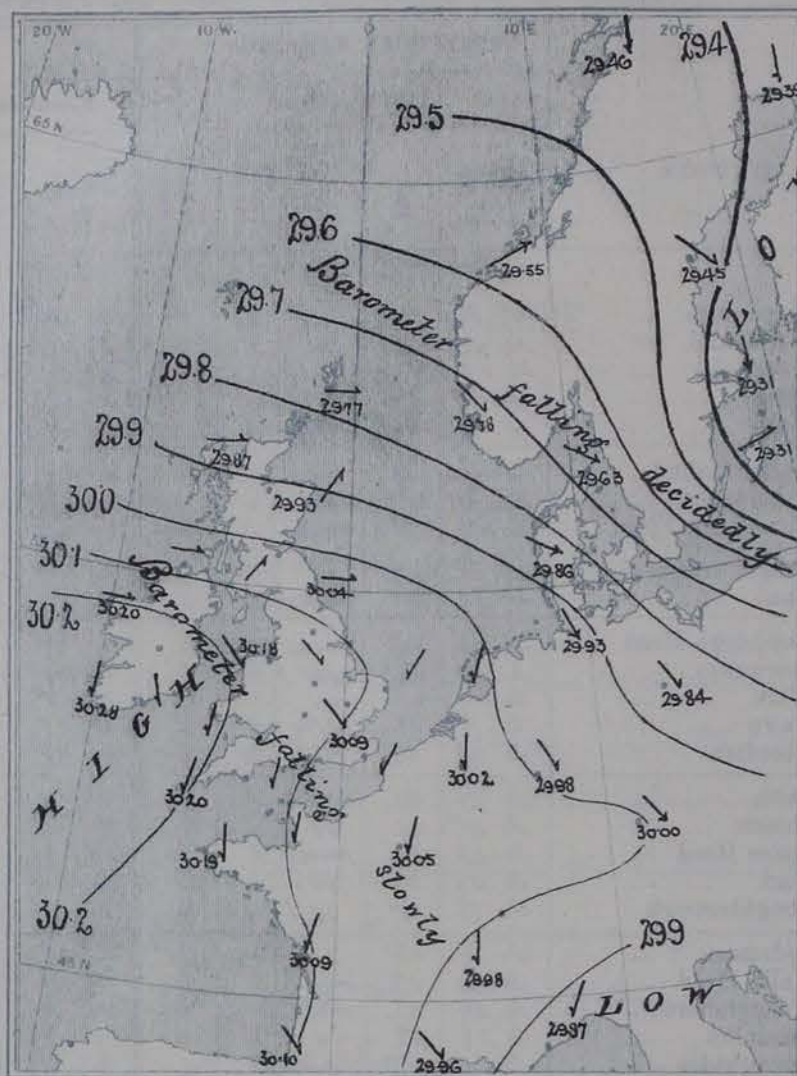
☼ = Rough, ☼ = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of May

During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.879
Stornoway	29.886
Wick	29.901
Nairn	29.908
Aberdeen	29.918
Leith	29.932
Shields	29.943
Spurn Head	29.956
York	29.962
Loughborough	29.973
Ardrossan	29.985
Mullaghmore	29.929
Donaghadee	29.947
Holyhead	29.955
Liverpool	29.961
Parsonstown	29.958
Valencia	29.963
Roche's Point	29.959
Pembroke	29.961
Scilly	29.974
Prawle Point	29.992
Jersey	29.989
Hurst Castle	29.982
Dover	29.970
LONDON	29.981
Oxford	29.981
Cambridge	29.976
Yarmouth	29.967



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.

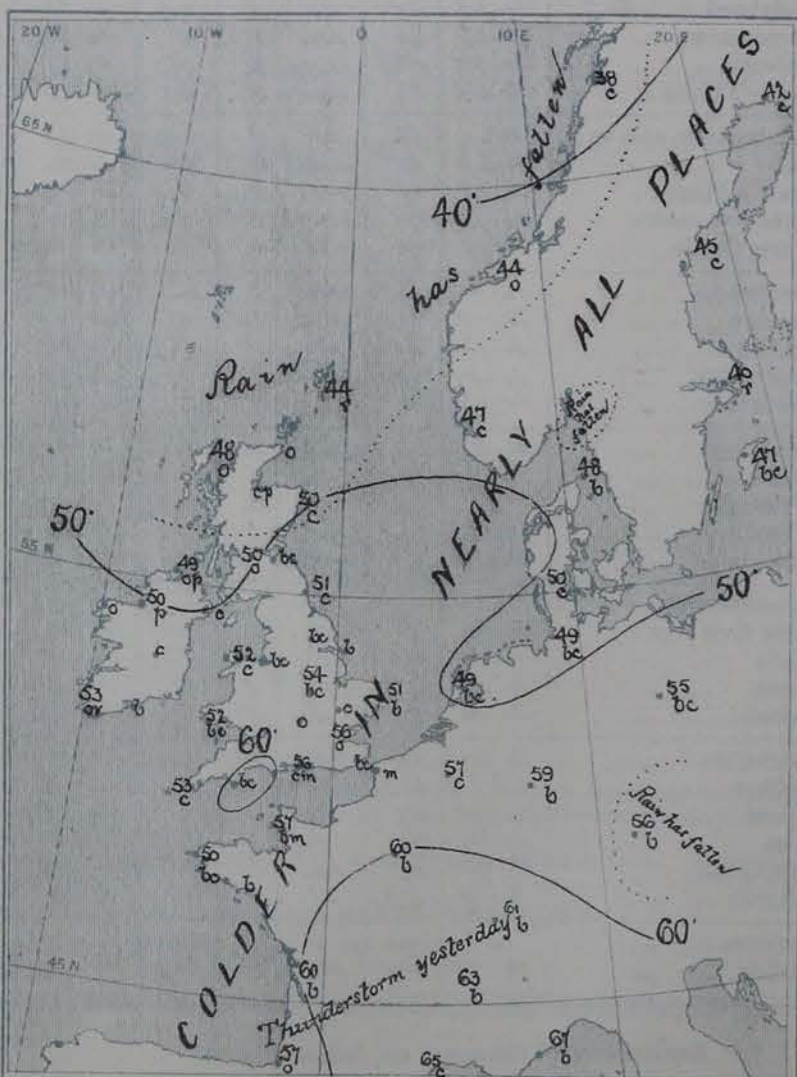
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of May.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	50.3	40.2	46.1	44.0	1.72
Stornoway.....	53.3	41.1	48.6	46.4	2.61
Wick.....	53.9	40.6	48.1	45.6	1.69
Nairn.....	56.3	42.2	48.6	45.4	1.61
Aberdeen.....	55.0	41.9	48.9	45.4	1.99
Leith.....	57.8	42.4	50.1	46.7	1.67
Shields.....	54.4	42.9	49.0	46.0	1.69
Spurn Head.....	54.3	45.1	49.3	47.2	1.57
York.....	59.6	42.2	49.8	46.7	1.85
Loughborough.....	61.7	42.6	51.1	47.7	2.09
Ardrossan.....	56.5	43.9	49.5	46.7	2.34
Mullaghmore.....	56.7	46.3	50.2	47.4	2.42
Donaghadee.....	56.0	44.2	49.6	47.5	2.26
Holyhead.....	56.2	46.2	50.5	48.0	1.90
Liverpool.....	58.0	45.0	50.8	46.9	1.84
Parsonstown.....	59.5	42.7	51.0	47.8	2.24
Valencia.....	58.1	46.3	52.8	49.7	3.20
Roche's Point.....	58.9	46.2	51.7	48.8	3.14
Pembroke.....	55.0	45.9	49.9	47.7	2.03
Scilly.....	56.3	48.2	52.7	50.3	1.73
Prawle Point.....	56.6	45.3	51.4	49.4	1.56
Jersey.....	59.4	47.2	53.6	50.5	1.87
Hurst Castle.....	58.6	45.7	51.6	49.9	1.78
Dover.....	57.0	46.7	52.5	49.3	1.79
LONDON.....	62.3	44.4	52.5	48.5	1.86
Oxford.....	60.6	43.4	50.6	47.5	1.95
Cambridge.....	62.0	42.0	51.7	48.5	1.90
Yarmouth.....	55.4	44.9	50.6	48.1	1.86

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 upwards in an anticyclone lying over the southeast of our Islands.
 Lowest, 29.6 ins. and less, over Finland, the Baltic, and eastern parts of Sweden.
 Gradients slight. Barometer falling generally, — most in Scandinavia and the extreme north of Scotland.

TEMPERATURE

Highest, 67° at Nice, 66° at Lisbon, 65° at Perpignan, 63° at Lyons, 62° at Brindisi, and 61° at Belfast.
 Lowest, 38° at Bodo, 40° at Stockholm, 42° at Haparanda, 44° at Christiansund and Lumburg N^o and 45° at Helsingfors.
 During yesterday, the thermometer rose to 76° at York and Oxford, 77° at Hurst Castle, 78° in London, and 80° at Cambridge.

WIND

Light or moderate from the Wnd over the northern parts of the United Kingdom, but Nth at our southern and the French stations.
 Moderate from the NWth at most of the Scandinavian and Danish stations, but strong from SW. at Christiansund.

WEATHER

Fine over the greater part of Western Europe, but dull and showery in the extreme north and northwest of our Islands.
 Rain is also falling at Stockholm.
 A little rain fell yesterday in the north of Scotland. Thunderstorms have occurred in the south of France.

SEA

Slight or smooth generally.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depressions which are passing along to the northward of our Islands seem likely to occasion a continuance of unsettled weather over our northern districts, but are not likely to affect our southern stations at present. The general tendency is, however, for a gradual extension of cyclonic conditions over our Islands.

FORECASTS

For the 24 hours ending at NOON on 15th May 1891.

DISTRICTS.

FORECASTS.

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

Wth winds, moderate or fresh; unsettled, rain at times.
 Wth winds, light or moderate; changeable, some showers.
 Nth and NWth winds, light, fair generally.

DISTRICTS.

FORECASTS.

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

Same as N^o 1 and 2.
 Same as N^o 3 to 5.
 Same as N^o 0.
 Same as N^o 3 to 5.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.52	44	46	WNW	4	P	2		Holyhead ...	30.24	55	52	NW	1	bc
Sumburgh Head ...	29.56	44	47	W	3	C	0		Valencia ...	30.25	60	56	NW	3	bc
Stornoway ...	30.12	51	53	NW	4	P	4		Scilly ...	30.24	57	54	NW	4	c
Aberdeen ...	30.03	54	52	NW	3	o/p	2		Jersey ...	30.17	74	65	WNW	2	bm
Shields ...	30.06	68	59	WNW	3	C	2		Dungeness ...	30.11	59	56	WNW	1	m
Ardrossan ...	30.15	53	52	W	2	o	1		London ...	30.11	75	63	WNW	1	c
Malin Head ...	30.20	51	51	WNW	4	o	2		Yarmouth ...	30.10	64	56	NNE	2	c
Mullaghmore ...	30.24	53	52	WNW	4	om/p	2		Rochefort ...	30.15	68	64	NW	4	c
Belmullet ...	30.30	53	53	WNW	1	o/p	*								

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

Weather fine over England and the greater part of the Continent, but dull at many of the Scotch and Irish stations, with rain at Stornoway and Mullaghmore. Dull also over northern and central Russia, Tunis, Sicily, and the adjacent parts of the Mediterranean. Rain falling later in Norway and the north of Scotland; thunderstorms occurring at some of the French stations.

Temperature highest 74° at Barcelona, 73° at London, 71° at Trieste, and 70° at Algiers, above 60° over the whole of southern Europe and the Mediterranean as well as at many of the English stations. Lowest 40° at Haparanda, 41° at Pozo, 42° at Helsingfors, 43° at Uleaborg and Hango, and 45° at Sumburgh Hd., Christiansund, and Moscow. Rising during day to between 75° and 80° over the inland parts of England and France, but remaining below 55° in the extreme north and northwest of our Island.

Winds moderate from the W³ or SW² over Scandinavia, northern Russia, and the north of Ireland, but variable or NE¹ in the extreme north of Scotland. NW¹ over England and the south of Ireland, north of France, and Germany, and NE¹ in Spain and Italy. Light and variable over Algeria. NW¹ breeze setting in later over the north of Scotland; no important change occurring elsewhere.

Barometer highest 30.3 ins. and upwards over Ireland, 30.0 ins. and upwards, in a large anticyclone extending from the Atlantic over western and central Europe as far as Russia. Lowest, 29.4 ins. and less, in a depression lying over Lapland, 29.8 ins. and less, in a shallow system lying to the southward of Sicily, 30.1 ins. and less, in a still shallower system lying over the northwest of Scotland. Scotch disturbance subsequently moving away in an easterly direction, and barometer rising on our extreme northwest coast.

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.

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

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 *Friday, 15th May,* 1891.
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 6.)	SHADE TEMP.		Amount of Rainfall.	
	Reading at 32° F. and Sea Level.	Dry.	Direc.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...	29.38	38	Z	0	0	29.41	+0.02	41	38	-1	NE	4	0	*	48	32	-
	Hernösand ...	29.38	44	Z	0	0	29.36	-0.09	42	37	-3	E	4	0	*	52	41	-
	Stockholm ...	29.45	46	W	2	0	29.34	+0.03	50	45	+10	S	2	0	*	57	37	-
	Wisby ...	29.49	41	SW	4	0	29.38	+0.07	45	43	-2	W	4	0	*	48	37	0.04
	Bodö ...	29.47	38	N	1	0	29.44	-0.03	39	34	+1	E	2	0	1	3	28	-
	Christiansund	29.45	43	WNW	4	0	29.31	-0.24	42	39	-2	NE	6	0	3	45	30	0.04
	Skudesnaes ...	29.43	45	S	4	0	29.23	-0.55	45	41	-2	S	2	0	3	47	39	0.20
	Christiania Fjord (Fjærd)	29.43	51	SW	3	0	29.18	-0.44	44	43	-2	SSW	2	0	2	55	43	0.08
	Skagen (The Scaw)	29.50	45	WNW	5	0	29.28	-0.35	45	42	-3	WNW	6	bc	5	54	41	0.08
	Fanö ...	29.65	44	WSW	6	0	29.47	-0.39	50	45	0	W	4	0	*	54	45	0.04
BRITISH ISLANDS.	Sumburgh Head	29.36	44	W	4	0	29.31	-0.46	42	40	-2	NNE	6	0	6	48	35	0.17
	Stornoway ...	29.69	47	NW	6	0	29.52	-0.35	44	44	-4	N	8	0	6	51	38	0.08
	Wick ...	29.58	44	WNW	8	0	29.42	-0.43	46	45	-1	N	7	0	6	52	38	0.16
	Nairn ...	29.69	42	SW	6	0	29.45	-0.46	44	42	-4	NW	4	0	4	59	38	0.18
	Aberdeen ...	29.70	48	W	5	bc	29.37	-0.56	45	41	-5	WNW	6	0	4	59	39	0.03
	Leith ...	29.80	54	W	5	0	29.47	-0.54	51	45	-1	W	4	0	*	57	39	0.01
	Shields ...	29.82	55	W	4	0	29.48	-0.56	45	41	-6	WNW	4	0	2	56	38	-
	Spurn Head ...	29.87	53	W	6	0	29.54	-0.53	47	43	-4	W	7	0	5	60	42	-
	York ...	29.92	52	W	3	bc	29.58	-0.52	47	43	-6	W	5	0	*	62	39	-
	Loughborough	29.98	54	WNW	3	0	29.69	-0.44	49	44	-5	W	5	0	*	62	40	0.02
GERMANY & HOLLAND.	Ardrossan ...	29.91	49	W	5	bc	29.52	-0.54	49	47	-1	NW	6	0	4	53	39	0.38
	Malin Head ...	29.97	49	NW	5	0	29.66	-0.42	43	42	-6	WNW	7	0	5	51	40	0.07
	Mullaghmore ...	30.10	50	WNW	5	0	29.82	-0.36	48	44	-2	NW	7	0	6	54	42	0.06
	Belmullet ...	30.16	52	WNW	3	0	29.91	-0.29	43	43	-8	WNW	5	0	*	54	43	0.06
	Donaghadee ...	29.99	52	NNE	4	0	29.67	-0.47	44	43	-6	W	5	0	4	56	43	0.19
	Liverpool (Bidston)	29.99	50	W	5	0	29.68	-0.47	45	42	-4	W	6	0	5	53	43	0.02
	Holyhead ...	30.03	51	W	2	bc	29.76	-0.42	49	45	-3	WNW	6	0	5	57	43	0.01
	Parsonstown ...	30.12	57	Z	0	bc	29.92	-0.32	45	43	-6	NW	1	0	*	58	42	0.03
	Valencia ...	30.21	55	N	3	om	30.04	-0.24	49	45	-4	NW	4	0	4	56	47	0.01
	Roche's Point...	30.14	56	N	4	0	29.96	-0.27	52	48	-2	NW	5	0	4	60	45	-
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.08	51	NW	3	0	29.94	-0.26	47	45	-5	NW	4	0	3	54	46	-
	Scilly ...	30.13	53	NW	4	0	29.99	-0.21	52	48	-1	NW	4	0	3	56	48	-
	Prawle Point ...	30.04	55	WNW	4	0	29.90	-0.24	50	47	-12	WNW	4	0	2	66	43	-
	Jersey (St. Aubin's)	30.04	50	WNW	3	0	29.85	-0.26	53	50	-4	WNW	3	0	3	62	46	-
	Hurst Castle ...	30.00	64	WNW	4	bc	29.82	-0.30	52	47	-4	WNW	5	0	3	67	44	-
	Dungeness ...	29.93	48	SW	3	f	29.74	-0.31	54	49	-2	W	4	0	3	58	41	-
	London ...	29.93	64	NW	2	bc	29.74	-0.35	52	45	-4	NW	3	0	*	69	43	-
	Oxford ...	29.97	52	WNW	2	0	29.75	-0.37	49	44	-3	W	3	0	*	66	41	-
	Cambridge ...	29.93	55	NW	2	0	29.72	-0.39	50	45	-6	WNW	3	0	*	67	38	-
	Yarmouth ...	29.90	53	SSW	1	0	29.65	-0.43	50	44	-1	WNW	4	0	3	53	40	-
PENIN- SULA.	Cuxhaven ...	29.90	49	WNW	4	bc	29.61	-0.32	51	48	+2	WNW	3	0	*	52	49	-
	Berlin ...	29.77	59	NW	4	0	29.63	-0.21	51	46	-4	NW	3	0	*	64	46	-
	Wiesbaden ...	*	*	*	*	*	29.70	-0.28	57	50	-2	WNW	2	0	*	72	52	-
	Munich ...	29.89	59	W	4	0	29.74	-0.26	62	55	+6	SW	4	0	*	72	50	-
	The Helder ...	29.86	50	WSW	1	0	29.62	-0.42	48	44	-1	WNW	2	0	3	52	48	-
	Brussels (9 a.m.)	*	*	*	*	*	29.74	-0.28	50	45	-7	W	4	0	*	66	45	-
	Cape Gris Nez	?	54	?	1	m	29.76	-0.28	48	45	-4	WNW	3	0	3	54	45	-
	Paris ...	29.89	67	SE	2	bc	29.83	-0.22	52	50	-8	WNW	2	0	*	74	50	-
	Brest ...	30.13	56	N	4	0	30.08	-0.11	51	50	+1	N	3	0	2	66	48	-
	Lorient ...	30.03	60	N	3	0	30.01	-0.11	50	48	-4	WNW	3	0	2	70	48	-
PENIN- SULA.	Rochefort ...	29.93	63	NW	4	0	29.91	-0.18	54	51	-6	WNW	4	0	*	72	43	-
	Belfort ...	?	67	W	2	bc	?	?	56	56	-5	W	1	0	*	77	50	-
	Lyons ...	29.87	68	WNW	1	bc	29.81	-0.17	59	56	-4	SE	2	0	*	75	55	-
	Nice ...	29.84	68	W	2	0	29.80	-0.07	60	58	-7	NE	1	0	2	77	55	-
	Perpignan ...	29.88	74	NW	3	bc	29.85	-0.11	64	60	+4	W	1	0	*	80	63	-
	Biarritz ...	30.03	57	W	3	m	29.98	-0.12	58	56	+1	W	5	0	3	68	54	-

For Explanation of Columns, see bottom of p. 4.

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

WEATHER CHARTS

for 8 a.m. on Friday, 15th May, 1891.

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 bars and feathers refer to force thus—

— forces above 10. — forces 8 to 10.

— forces 5 to 7. — forces 1 to 4.

— dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

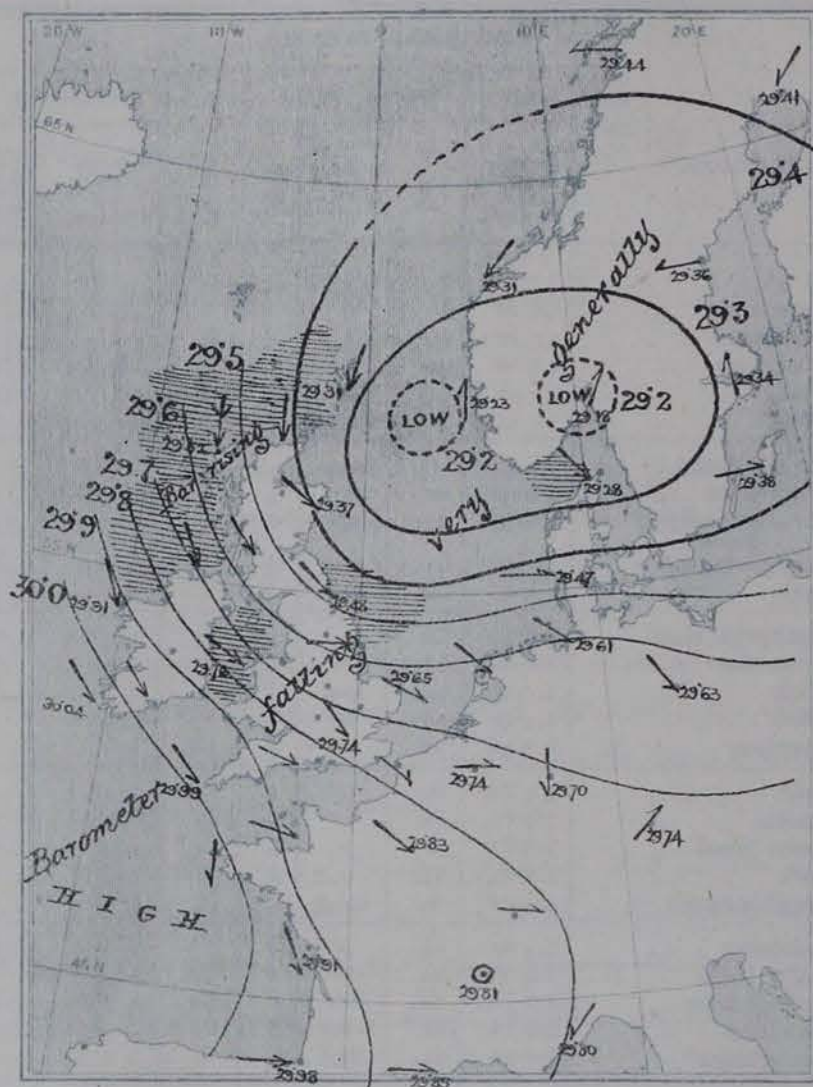
— Rough — High.

MEAN HEIGHT OF THE BAROMETER

at 8 a.m. for the month of May

During the 25 Years: 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.879
Sornoway	29.888
Wick	29.901
Nairn	29.908
Aberdeen	29.918
Leith	29.922
Shields	29.943
Spurn Head	29.950
York	29.962
Loughborough	29.973
Ardrossan	29.935
Mullaglmore	29.929
Donaghadee	29.947
Holyhead	29.958
Liverpool	29.961
Parsonstown	29.958
Valencia	29.963
Roche's Point	29.950
Pembroke	29.961
Seilly	29.974
Prawle Point	29.982
Jersey	29.980
Hurst Castle	29.982
Dover	29.970
LONDON	29.981
Oxford	29.981
Cambridge	29.976
Yarmouth	29.967



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.

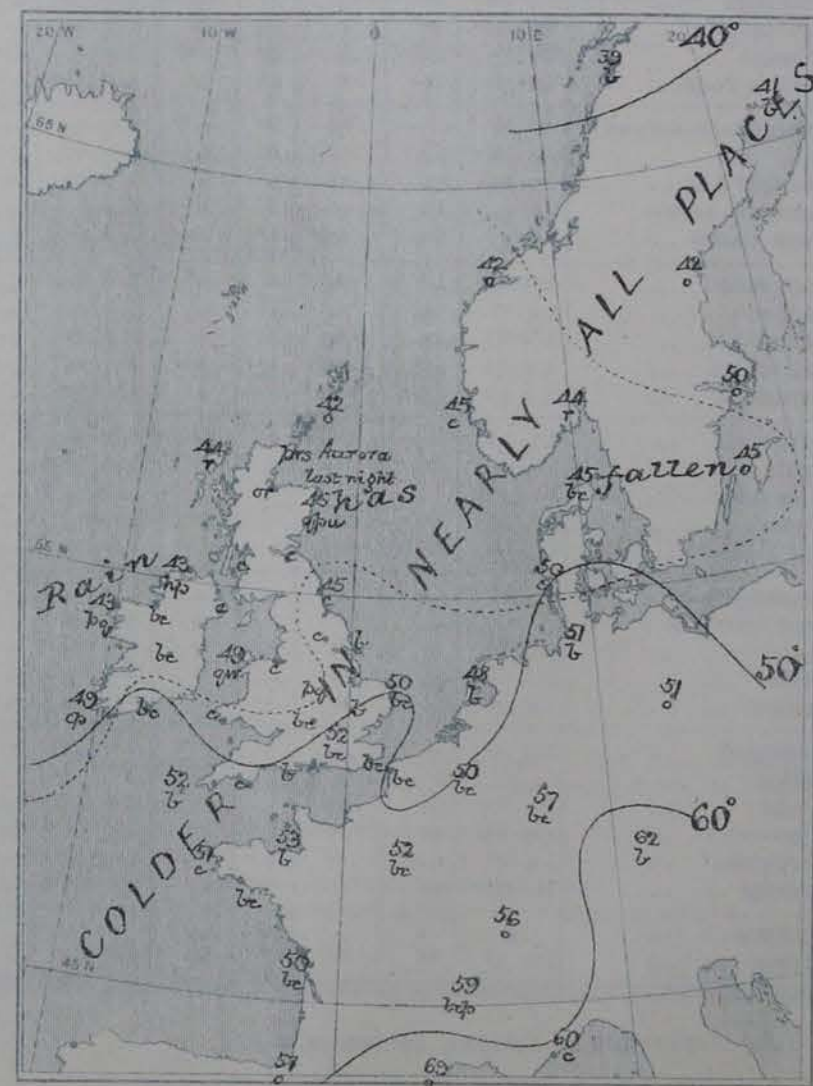
WEATHER—is shown by Letters of the Beaufort Scale.

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 May.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	At 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	50.3	40.2	46.1	44.0	1.72
Sornoway	53.3	41.1	48.6	46.4	2.61
Wick.....	53.9	40.6	48.1	45.6	1.69
Nairn.....	56.3	42.2	48.6	45.4	1.61
Aberdeen.....	55.0	41.9	48.9	45.1	1.99
Leith.....	57.8	42.4	50.1	46.7	1.67
Shields.....	54.4	42.9	49.0	46.0	1.69
Spurn Head.....	54.3	45.1	49.3	47.2	1.57
York.....	59.0	42.2	49.8	46.7	1.85
Loughborough	61.7	42.6	51.1	47.7	2.09
Ardrossan.....	56.5	43.9	49.5	46.7	2.34
Mullaglmore.....	50.7	46.3	50.2	47.1	2.12
Donaghadee.....	56.0	44.2	49.6	47.5	2.26
Holyhead.....	56.2	46.2	50.5	48.0	1.90
Liverpool.....	58.0	45.0	50.8	46.9	1.84
Parsonstown	59.5	42.7	51.0	47.8	2.24
Valencia.....	58.1	46.3	52.8	49.7	3.20
Roche's Point.....	58.9	46.2	51.7	48.8	3.14
Pembroke.....	55.0	45.9	49.9	47.7	2.03
Seilly.....	56.3	48.2	52.7	50.3	1.73
Prawle Point	56.6	45.3	51.4	49.4	1.66
Jersey.....	59.4	47.2	53.6	50.5	1.87
Hurst Castle.....	58.0	45.7	51.6	49.9	1.78
Dover.....	57.0	46.7	52.5	49.3	1.79
LONDON.....	62.3	44.4	52.5	48.5	1.86
Oxford.....	60.6	43.4	50.6	47.5	1.95
Cambridge.....	62.0	42.0	51.7	48.5	1.90
Yarmouth	55.4	44.9	50.6	48.1	1.86

NOTE—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 35 years 1855-90.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.0 in. and upwards, in an anticyclone extending from the Atlantic over the Bay of Biscay and the extreme south-west of Ireland.
 Lowest, 29.3 in. and less, in a large depression lying over the south of Scandinavia and the northern parts of the North Sea.
 Gradients moderate over our Islands and the North Sea, but slight elsewhere.
 Barometer falling generally, but beginning to rise again in the north-west of Scotland.

TEMPERATURE

Highest, 63° at Perpignan, 64° at Lisbon, 62° at Munich, 60° at Nice, 59° at Lyons, 58° at Biarritz, and 57° at Wiesbaden.
 Lowest, 39° at Bodo, 41° at Haparanda, 42° at Haparanda, 43° at Stockholm, and 44° at Malmö, and 45° at Belmullet.
 During yesterday the thermometer rose to 67° at Hull, Carlisle and Cambridge, and 68° in London.

WIND

NW³ over the greater part of our Islands and France; strong in force on all our more northern coasts, with a gale in the north of Scotland.
 Moderate from the Wnd over Denmark and the Netherlands; E³ or NE³ over the northern part of Scandinavia.

WEATHER

Showery at several of our northern stations, with hail at Malmö and also at Wick; dull in Scandinavia.
 Fine in most other parts of Western Europe, but dull in the south of France.
 Since yesterday morning rain has fallen over all the more northern parts of the United Kingdom. Bright Auroras were seen last night at Aberdeen.

SEA

Rough or rather so on our north-west, north, and north-east coasts, but moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The large depression noticed above appears to be moving in a southeasterly direction, and the showery unsettled weather now prevailing over the northern part of the United Kingdom seems likely to become general.

FORECASTS

For the 24 hours ending at NOON on 16th May. 1891.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	N ² winds, strong to moderate; squally, some cold showers
1	SCOTLAND EAST	
2	ENGLAND N.E.	Same as No. 5.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	W ³ to NW ³ winds, fresh or strong; squally, some cold showers.

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	NW ² winds, strong to moderate; squally, showery.
7	ENGLAND N.W.	
8	ENGLAND S.W.	NW ³ winds, freshening considerably; fair generally, but local showers.
9	IRELAND NORTH	Same as No. 6 and 7.
10	IRELAND SOUTH	Same as No. 8.

WARNINGS

The N. CONE which was hoisted yesterday in district 0 and part of 1 is still flying.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.69	46	47	WSW	4	c	3	Holyhead ...	30.10	50	50	WNW	2	c	1
Sumburgh Head ...	29.48	45	44	WSW	4	o	4	Valencia ...	30.24	55	53	NW	2	om	2
Stornoway ...	29.77	49	46	W	5	c	5	Scilly ...	30.17	54	51	NW	4	c	3
Aberdeen ...	29.72	57	50	W	4	cq	2	Jersey ...	30.09	62	57	WNW	3	b	3
Shields ...	29.92	54	46	W	4	op	2	Dungeness ...	30.00	54	51	E	4	bc	3
Ardrossan ...	29.93	53	51	W	6	bc	4	London ...	29.98	65	58	WNW	3	bc	*
Malin Head ...	30.00	51	48	NW	5	bc	3	Yarmouth ...	30.00	53	49	WSW	2	b	3
Mullaghmore ...	30.12	53	50	WNW	5	bc	4	Rochefort ...	30.03	70	66	NW	3	b	2
Belmullet ...	30.17	54	51	NW	2	b	*								

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

Weather in morning fine and bright over nearly the whole of western, southern, and southeastern Europe, cloudy or overcast and unsettled elsewhere, with rain in places, more particularly in the north and northwest of our Islands. Squally and showery over Norway, Scotland, the north of Ireland and northwest of England later, and becoming dull and gusty even in London in evening; thunder reported at Lyons.

Temperature falling decidedly over the British Islands and their immediate neighbourhood. Morning readings exceeding 60° at most of the Spanish and Mediterranean stations (70° at Leghorn, 69° at Algiers), but lower elsewhere; below 50° in the north of Scotland and over northern Europe, and as low as 37° at Archangel, 38° at Rode, 40° at Stockholm, 42° at Haparanda, 43° at Kuopio, 44° at Sumburgh Hd. Rising to between 60° and 65° over England during day, and to 70° and more in many parts of Germany and France, but failing to touch 50° at most of the Scandinavian stations. Falling suddenly in London during evening.

Wind moderate W in Scotland and the north of Ireland, light N over England and France, NE to E over Spain; strong NW on the eastern shores of the North Sea and over the Baltic, moderate to light NW over Germany, light S to E over the Baltic Provinces and Finland; very variable air over southeastern Europe. Strong breeze and moderate gale from the NW in our Islands later, varying breeze in Norway.

Barometer highest 30.2 ins. and more to 30.0 ins. in a high pressure area spreading eastwards from the Atlantic to Ireland, England the Bay of Biscay and France; 29.9 ins. and more over the Black Sea. Lowest 29.3 ins. and less, over the White Sea and Kola Peninsula; 29.4 ins. and less, in a well marked secondary disturbance over the Baltic; 29.6 ins. over Corsica, the southeast of France and Gulf of Genoa. New and somewhat deep secondary system approaching the Shetland Islands and Norway later from the north-westward.

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

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

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

„ Weekly „ „ „ £1 10 0 „

DAILY WEATHER REPORT.

for *Saturday, 16th May,* 1891.
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

R. H. SCOTT, Secretary.																	
LONDON, 55, VICTORIA STREET.																	
STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.	
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 5.)	SHADE TEMP.		Amount of Rainfall.
	Reading at 32° F. and Sea Level.	Dry.	Direc.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)			Max.	Min.	
SCANDINAVIA.																	
Haparanda ...	29.39	33	NE	A	0	29.28	- 13	30	30	- 11	NE	4	S	*	45	32	0.12
Hernösand ...	29.38	41	N	h	C	29.36	- 00	42	36	0	NNW	4	bc	*	48	39	0.35
Stockholm ...	29.31	42	N	2	0	29.32	- 02	43	43	- 2	E	2	C	*	55	37	0.12
Wisby ...	29.34	42	S	4	b	29.31	- 07	47	44	+ 2	N	4	bc	*	51	37	-
Bodö ...	29.43	42	E	1	C	29.47	+ 03	42	35	+ 3	E	4	C	*	45	34	-
Christiansund	29.39	40	N	3	C	29.39	+ 08	42	40	0	NE	1	r	3	?	37	0.12
Skudesnaes ...	29.28	43	NNW	6	C	29.26	+ 03	45	41	0	NNW	4	C	5	45	43	0.04
Christiania Fjord (Færdø)	29.21	44	N	3	0	29.19	+ 01	45	42	+ 1	SE	5	bc	2	45	41	0.12
Skagen (The Scaw)	29.23	40	N	1	b	29.23	- 05	44	41	- 1	SW	1	b	1	52	39	-
Fanö ...	29.29	44	NNW	4	C	29.21	- 26	47	44	- 3	NNW	4	C	*	52	41	0.16
Sumburgh Head	29.58	39	NNE	5	0	29.62	+ 31	36	33	- 6	N	6	C	6	48	31	0.10
Stornoway ...	29.82	37	N	4	S	29.89	+ 37	35	35	- 9	N	4	S	6	48	30	0.10
Wick ...	29.66	40	N	8	0	29.75	+ 33	38	36	- 8	N	4	C	6	48	32	0.12
Nairn ...	29.70	40	NNW	5	T	29.81	+ 36	37	35	- 7	NNW	4	bc	4	50	32	0.13
Aberdeen ...	29.61	43	NNW	7	C	29.74	+ 37	34	33	- 11	NW	5	cspg	6	50	33	0.22
Leith ...	29.66	48	N	4	C	29.82	+ 35	41	36	- 10	N	4	C	*	55	36	0.01
Shields ...	29.58	47	NW	4	C	29.72	+ 24	41	36	- 4	NNW	5	C	5	54	34	0.01
Spurn Head ...	29.53	48	N	7	bcgp	29.70	- 14	41	39	- 6	NNW	6	fgp	5	50	37	0.07
York ...	29.57	49	N	4	bc	29.75	+ 17	41	36	- 6	NNW	3	bc	*	53	36	0.23
Loughborough	29.61	44	NNW	4	E	29.77	+ 08	41	39	- 8	NW	2	0	*	55	38	0.26
Ardrossan ...	29.71	47	NNW	2	b	29.85	+ 33	44	40	- 5	NW	4	b	2	53	36	0.04
Malin Head ...	29.81	44	NNW	7	cgp	29.93	+ 27	39	37	- 4	NNW	6	csp	4	47	37	?
Mullaghmore ...	29.92	46	NNW	7	bcgp	30.02	+ 20	43	39	- 5	NNW	6	cgp	5	50	38	0.12
Belmullet ...	30.01	47	NNW	4	C	30.09	+ 18	42	40	- 1	N	5	C	*	52	39	0.14
Donaghadee ...	29.76	48	NNE	7	b	29.91	+ 24	43	39	- 1	NNE	7	b	5	53	40	0.03
Liverpool (Bidston)	29.65	47	NE	3	b	29.82	+ 14	43	38	- 2	N	3	chp	4	51	37	0.40
Holyhead ...	29.72	47	NNW	6	cq	29.86	+ 10	42	39	- 7	NNW	6	C	5	54	39	0.06
Parsonstown ...	29.91	51	NW	2	C	30.03	+ 11	43	39	- 2	NW	2	C	*	53	38	0.08
Valencia ...	30.04	50	NNW	4	cq	30.12	+ 08	48	44	- 1	N	3	C	3	53	43	0.12
Roche's Point...	29.91	50	NNW	5	bcgth	30.03	+ 07	47	43	- 5	N	5	b	4	55	41	0.15
Pembroke (St. Ann's Hd.)	29.79	49	NNW	6	bc	29.91	- 03	43	40	- 4	NNW	6	bcq	4	51	41	0.17
Scilly ...	29.87	52	NNW	5	C	29.98	- 01	46	42	- 6	NNW	6	cq	5	53	42	0.08
Prawle Point ...	29.78	50	NNW	5	bc	29.88	- 02	45	41	- 5	NW	5	C p	3	57	40	-
Jersey (St. Aubin's)	29.81	52	NNW	4	bcu	29.89	- 02	50	45	- 3	NNW	4	cgp	3	56	46	-
Hurst Castle ...	29.67	52	NNW	7	bc	29.80	- 02	45	41	- 7	NNW	4	bc	4	59	40	0.13
Dungeness ...	29.61	50	NNW	5	C	29.73	- 01	44	42	- 10	N	3	C	2	59	34	-
London ...	29.64	44	NW	4	qthp	29.76	+ 02	41	39	- 11	NNW	2	0	*	58	37	0.25
Oxford ...	29.67	45	NNW	3	0	29.79	+ 04	40	38	- 9	NW	4	p	*	54	39	0.09
Cambridge ...	29.61	49	NNW	3	0	29.73	+ 01	46	45	- 4	NW	2	C	*	59	36	0.02
Yarmouth ...	29.52	47	NNW	4	cp	29.66	+ 01	43	41	- 7	NW	4	C	3	54	39	0.03
Cuxhaven ...	29.46	49	N	4	r	29.33	- 28	45	44	- 6	N	6	r	*	54	45	0.20
Berlin ...	29.47	53	NW	3	0	29.47	- 16	47	45	- 4	N	4	C	*	63	46	0.04
Wiesbaden ...	*	*	*	*	*	29.64	- 06	49	44	- 8	N	4	bc	*	63	43	-
Munich ...	29.62	54	SW	3	0	29.67	- 07	42	41	- 20	N	4	0	*	68	41	0.35
The Helder ...	29.47	47	WSW	3	b	29.56	- 06	45	41	- 3	NW	4	bc	4	50	45	0.04
Brussels (9 a.m.)	*	*	*	*	*	29.68	- 06	45	42	- 5	NNW	4	C	*	58	37	0.24
Cape Gris Nez	29.61	47	N	5	C	29.71	- 05	44	41	- 4	N	4	0	5	54	41	0.04
Paris ...	29.70	54	NW	4	C	29.77	- 06	46	44	- 6	N	2	C	*	65	41	0.04
Brest ...	29.95	52	NNW	4	C	29.97	- 11	47	44	- 4	N	4	C	3	63	43	-
Lorient ...	29.88	53	NW	6	C	29.93	- 08	47	43	- 3	NW	4	b	4	61	45	-
Rochefort ...	29.93	56	NW	6	bc	29.94	+ 03	51	47	- 3	N	4	C	*	61	44	-
Belfort ...	?	59	N	4	r	?	?	46	44	- 10	N	4	C	*	68	42	0.32
Lyons ...	29.73	62	NNW	2	bc	29.78	- 03	40	39	- 19	NNW	2	r	*	73	40	-
Nice ...	29.68	57	SW	4	r	29.55	- 25	57	51	- 3	SW	4	bc	3	66	54	0.08
Perpignan ...	29.81	65	NW	5	0	29.82	- 03	55	47	- 14	NW	5	0	*	76	54	-
Biarritz ...	30.01	57	NW	5	0	29.99	+ 01	51	48	- 7	NW	5	r	4	61	48	0.08
Corunna ...	*	*	*	*	*	† 30.11	+ 10	58	54	0	NNE	4	C	3	68	52	-
Lisbon ...	29.91	62	NNW	5	b	29.95	+ 02	59	52	- 5	N	5	b	2	73	55	-
PENIN- SULA.																	

For Explanation of Columns, see bottom of p. 4.

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

WEATHER CHARTS

for 8 a.m. on Saturday, 16th May, 1891.

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.

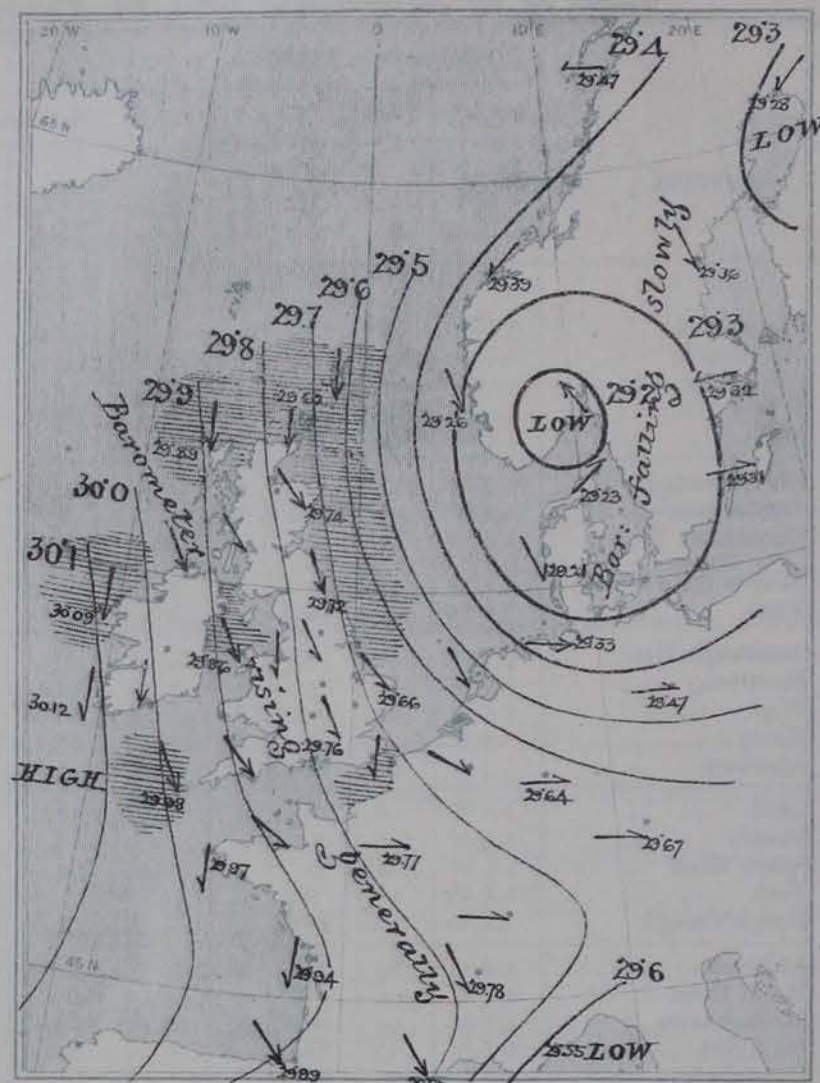
SEA DISTURBANCE—Where considerable, is shown thus:

≡ = Rough. ≡ = High.

MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.879
Stornoway	29.885
Wick	29.901
Nairn	29.908
Aberdeen	29.916
Leith	29.932
Shields	29.943
Spurn Head	29.956
York	29.962
Loughborough	29.973
Ardrossan	29.985
Mullaghmore	29.929
Donaghadee	29.947
Holyhead	29.956
Liverpool	29.961
Parsonstown	29.958
Valencia	29.963
Roche's Point	29.959
Pembroke	29.951
Scilly	29.974
Prawle Point	29.992
Jersey	29.989
Hurst Castle	29.982
Dover	29.970
LONDON	29.981
Oxford	29.981
Cambridge	29.976
Yarmouth	29.967



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.

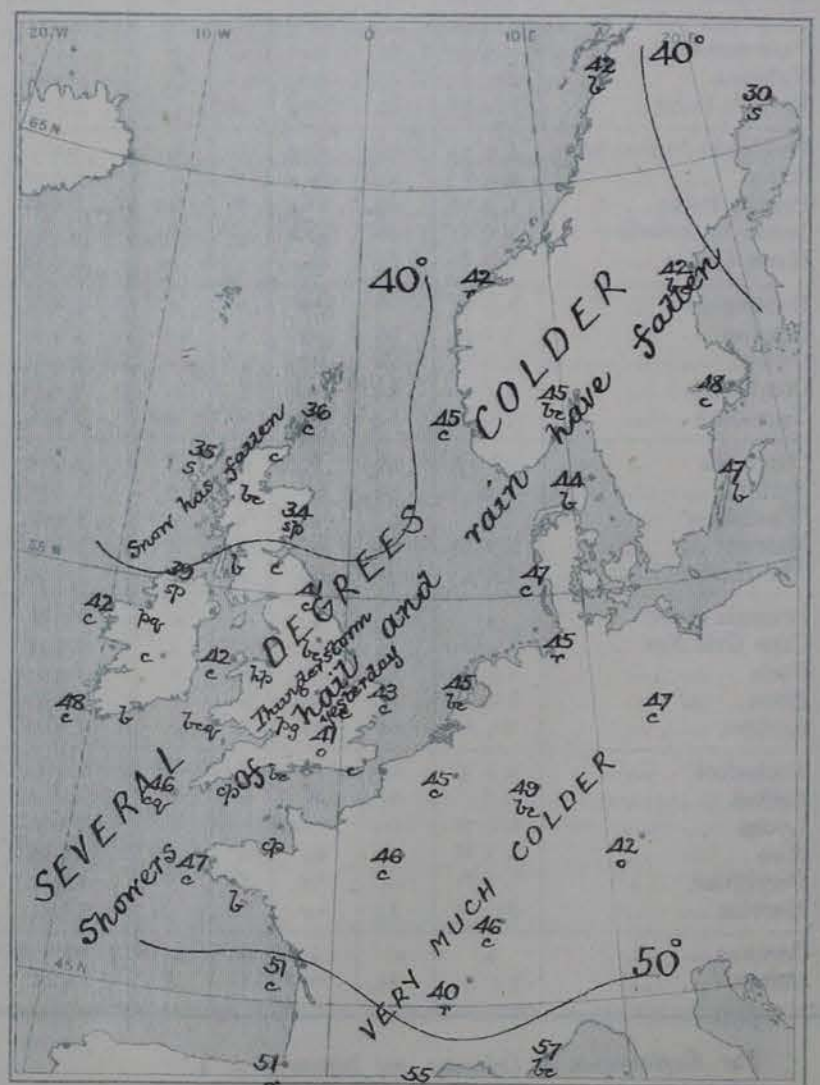
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of May.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	50.3	40.2	46.1	44.0	1.72
Stornoway	53.3	41.1	48.6	46.4	2.61
Wick	53.9	40.6	48.1	45.6	1.69
Nairn	50.3	42.2	48.6	45.4	1.01
Aberdeen	55.0	41.9	48.9	45.4	1.99
Leith	57.8	42.4	50.1	45.7	1.67
Shields	54.4	42.9	49.0	46.0	1.69
Spurn Head	54.3	45.1	49.3	47.2	1.57
York	59.6	42.2	49.8	46.7	1.85
Loughborough	61.7	42.6	51.1	47.7	2.09
Ardrossan	56.6	43.9	49.5	46.7	2.34
Mullaghmore	56.7	46.3	50.2	47.4	2.42
Donaghadee	56.0	44.2	49.6	47.5	2.26
Holyhead	56.2	46.2	50.5	48.0	1.90
Liverpool	58.0	45.0	50.8	46.9	1.84
Parsonstown	59.5	42.7	51.0	47.8	2.24
Valencia	58.1	46.3	52.8	49.7	3.20
Roche's Point	58.9	46.2	51.7	48.8	3.14
Pembroke	55.0	45.0	49.2	47.7	2.03
Scilly	56.3	48.2	52.7	50.3	1.73
Prawle Point	56.6	45.3	51.4	49.4	1.56
Jersey	59.4	47.2	53.8	50.5	1.87
Hurst Castle	54.6	45.7	51.6	49.9	1.78
Dover	57.0	46.7	52.5	49.3	1.79
LONDON	62.3	44.4	52.5	48.5	1.86
Oxford	60.6	43.4	50.6	47.5	1.95
Cambridge	62.0	42.0	51.7	48.5	1.90
Yarmouth	55.4	44.9	50.8	48.1	1.86

NOTE—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1865-90.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.1 in. and upwards, in an anticyclone extending from the Atlantic over the west of Ireland.
 Lowest, 29.3 in. and less, in a large depression lying over Denmark and the south of Scandinavia.
 Gradients moderate or slight generally.
 Barometer falling slightly at the Scandinavian and Danish stations, but rising elsewhere.

TEMPERATURE

Highest, 59° at Biebon, 57° at Kiev, 55° at Perpignan, 51° at Rochefort and Bismutz, and 50° at Jersey.
 Lowest, 30° at Haparanda, 34° at Aberdeen, 35° at Stornoway, 36° at Lumburg Ht., 37° at Narvik, 38° at Niek, and 39° at Malin Ht.
 Frost occurred last night over the northern part of Scotland.

WIND

N² or NW² over our Islands, France, and the North Sea; strong in force on all the more exposed part of our western and northern coasts.
 Moderate from the W² in Germany; variable in the south of Scandinavia.
 A strong gale from the N² was experienced yesterday in the northeast of Scotland.

WEATHER

Changeable and showery over the greater part of Western Europe, with snow at Stornoway, Aberdeen, and Malin Ht., as well as at Haparanda.
 Heavy showers of rain, hail, or sleet fell yesterday over nearly the entire Kingdom, and thunderstorms occurred at many of the English stations as well as at Lyons.

SEA

Rough off the north of Scotland, and rather rough on all but our southern coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The rise in the barometer which is in progress over our Islands is of a somewhat irregular character, and although there are at present no signs of the advance of any new disturbance of importance it is probable that small shallow depressions will pass southwards across the country occasioning a continuance of showery unsettled weather.

FORECASTS

For the 24 hours ending at NOON on 17th May 1891.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	N ² winds, strong to moderate; changeable, some cold showers.	6 SCOTLAND WEST	Same as No 5
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.	Same as No 5.	8 ENGLAND S.W.	N ² and NW ² winds, moderate or fresh; fair generally, but local showers.
3 ENGLAND EAST		9 IRELAND NORTH	Same as No 0 and 1
4 MIDLAND COUNTIES		10 IRELAND SOUTH	Same as No 8.
5 ENGLAND SOUTH	N ² and NW ² winds, moderate or fresh; changeable, some cold showers.	WARNINGS	

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

The N. Cone is still flying in district 0 and part of 1.

YESTERDAY'S 2 P.M. REPORTS.

	THER: WIND								THER: WIND						
	BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA
Skudesnaes ...	29.27	45	43	NNW	1	r	4	Holyhead ...	29.70	52	47	NNW	6	b c q	5
Sumburgh Head ...	29.51	39	37	NNE	5	0	6	Valencia ...	30.03	53	48	NW	5	c q	5
Stornoway ...	29.77	42	40	N	7	0	6	Scilly ...	29.91	52	48	NNW	5	b c p	4
Aberdeen ...	29.52	49	42	NNW	8	b c q	6	Jersey ...	29.86	51	50	W	4	c	3
Shields ...	29.50	50	45	NW	5	0	3	Dungeness ...	29.63	52	45	N	5	b c p	4
Ardrossan ...	29.64	47	46	NNW	2	0	1	London ...	29.64	53	48	NNW	4	b c v	3
Malin Head ...	29.76	46	44	NNW	7	b c	5	Yarmouth ...	29.53	54	46	NW	5	c q	3
Mullaghmore ...	29.87	49	45	NNW	7	c t q	6	Rochefort ...	29.98	59	55	NW	5	b	3
Belmullet ...	29.94	51	48	NNW	8	b	3								

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

Weather in morning fine and bright in Lapland, the south of the British Islands, and north of France, and at several of the Mediterranean stations, cloudy or overcast elsewhere, with squalls of rain, sleet, and hail in the northwest and north of the United Kingdom; very generally unsettled. Showers of sleet, hail, and rain very prevalent over western and northwestern Europe during day, with thunder and lightning in many parts of England.

Temperature again fallen over the whole of Western Europe, and becoming low for the time of year. Morning readings much above 60° over Spain and the Mediterranean, and exceeding 70° at Barcelona and Algiers, exceeding 50° over the southern half of Russia and in Central Europe, but below that value over the United Kingdom and Scandinavia, and as low as 35° at Bodö and Helsingfors, 41° at Uleaborg, 42° at Lumburgh H^o and Christiansund, 43° at Malin Head and Archangel, and 45° at Harroxtown and Liverpool. Not touching 50° at any of our own stations later, but rising to above that value over Germany and France, and to 71° at Lurem, 73° at Lyons, 76° at Perpignan.

Wind strong to a gale from the N^o in Scotland and the north of Ireland, moderate to strong from between W. and NW. over England and the south of Ireland, and also over the Gulf of Finland, mainly W^o (but variable) over North Germany; very variable elsewhere, both in force and direction. Becoming strong and equally from the the NW^o or N^o in nearly all parts of our Islands later, and freshening considerably in the Channel and Bay of Biscay.

Barometer highest 30.0 in. and more, over the Atlantic, to the southward and westward of our Islands, over the northwest of Spain, and exceeding 29.9 in. over the southern side of the Mediterranean, in Greece, and Asia Minor; exceeding 29.4 in. over Lapland and the Kola Peninsula also. Lowest 29.1 in. and less, in a depression near St. Petersburg; 29.2 in. and less, in another complex system lying over the south of Scandinavia, and between the Norwegian coast and the Shetlands; below 29.7 in. all over North Germany, the Baltic Provinces and Central Russia. Rising in the north of our Islands and in Norway later, and gradients for N^o winds increasing over the United Kingdom.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—Beaufort Scale is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.
* AN ASTERISK is inserted in all places for which information is not usually received.
The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark the observations are taken at 8 p.m. (Christiania time).

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

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

DAILY WEATHER REPORT.

for Sunday 17th MAY 1891.
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 6.)	SHADE TEMP.		Amount of Rainfall.	
		Reading at 32° F. and Sea Level.	Dry.	Direc.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...	29.27	35	NE	2	0	29.34	+ .06	34	34	+ 4	E	2	S	*	37	30	0.16	
	Hernösand ...	29.34	35	NNW	2	7	29.41	+ .05	38	35	- 4	NNW	2	0	*	48	31	0.12	
	Stockholm ...	29.36	40	E	2	6	29.37	+ .05	45	43	- 3	S	2	0	*	57	34	0.24	
	Wisby ...	29.35	42	S	4	6	29.42	+ .11	47	44	0	WSW	6	C	*	54	37	-	
	Bodö ...	29.45	39	E	2	0	29.42	- .05	42	39	0	SSE	1	C	1	43	37	-	
	Christiansund	29.40	46	NNE	5	bc	29.39	- .00	42	40	0	NNE	3	r	3	46	41	-	
	Skudesnaes ...	29.30	44	NNW	6	r	29.33	+ .07	45	42	0	SSE	2	C	3	45	41	0.51	
	Christiania Fjord (Fæder)	29.30	45	ENE	5	C	29.34	+ .15	43	40	- 2	NNE	2	C	2	50	41	-	
	Skagen (The Seaw)	29.25	48	Z	0	0	29.32	+ .09	45	43	+ 1	Z	0	C	*	57	41	0.24	
	Fanö ...	29.40	42	WNW	6	C	29.46	+ .25	45	42	- 2	W	6	C	*	48	41	0.08	
BRITISH ISLANDS.	Sumburgh Head	29.58	39	NNW	3	bc	29.41	- .21	40	39	+ 4	NNE	5	0	6	41	32	0.09	
	Stornoway ...	29.80	37	N	6	C	29.60	- .29	34	34	- 1	N	4	0	4	41	29	0.10	
	Wick ...	29.67	38	NNW	6	0	29.50	- .25	36	35	- 2	N	4	0	4	42	30	0.18	
	Nairn ...	29.73	38	N	2	0	29.55	- .26	38	35	+ 1	NNW	2	b	1	43	30	0.04	
	Aberdeen ...	29.71	35	NNW	5	bc, hsp	29.52	- .22	40	36	+ 6	WNW	5	bc	4	42	29	0.16	
	Leith ...	29.75	41	N	2	0	29.58	- .24	43	37	+ 2	NNW	3	C	*	51	32	-	
	Shields ...	29.73	39	NNW	4	C	29.55	- .17	41	36	0	NNW	3	C	4	44	29	-	
	Spurn Head ...	29.71	42	NNW	5	b	29.52	- .09	40	36	- 1	W	5	bc	4	42	35	0.09	
	York ...	29.76	39	N	3	b	29.61	- .14	40	36	- 1	W	1	b	*	47	29	-	
	Loughborough	29.79	35	W	1	S	29.71	- .06	37	36	- 4	W	3	CSP	*	49	32	0.08	
GERMANY & HOLLAND.	Ardrossan ...	29.81	44	NNW	4	bshp	29.59	- .26	41	38	- 3	NNW	2	C	1	33	35	-	
	Malin Head ...	29.91	42	NNW	5	0	29.65	- .25	39	37	0	NNW	4	opq	3	43	35	0.03	
	Mullaghmore ...	30.00	43	NNW	6	C	29.72	- .30	40	38	- 3	NNW	5	orhq	4	46	37	0.17	
	Belmullet ...	30.06	44	NNW	4	C	29.73	- .36	43	42	+ 1	NNE	3	sp	*	46	38	0.10	
	Donaghadee ...	29.98	40	NNE	6	b	29.69	- .22	37	36	- 6	NNW	5	rs	3	47	35	0.10	
	Liverpool (Bidston)	29.82	38	WNW	4	bc	29.66	- .16	37	36	- 6	W	5	orhq	4	47	35	0.14	
	Holyhead ...	29.87	43	NNW	6	C	29.70	- .16	43	40	+ 1	WNW	6	egq	5	45	39	0.01	
	Parsonstown ...	30.01	45	NNW	2	C	29.77	- .26	45	41	+ 2	SW	2	C	*	49	34	0.03	
	Valencia ...	30.10	46	N	3	bc	29.83	- .29	46	45	- 2	WNW	3	rmv	2	50	41	0.02	
	Roche's Point...	30.02	47	NNW	4	bc	29.84	- .19	45	42	- 2	W	3	0	3	51	38	-	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.92	44	NNW	5	bc	29.81	- .10	43	40	0	NNW	4	bcq	4	47	37	0.04	
	Scilly ...	29.98	45	NNW	5	Cq	29.90	- .08	45	40	- 1	NNW	4	chp	4	48	40	0.13	
	Prawle Point ...	29.88	45	NNW	5	b	29.86	- .02	46	42	+ 1	WNW	3	bc	2	54	35	-	
	Jersey (St. Aubin's)	29.86	47	WNW	4	bc	29.89	+ .02	45	41	- 5	WNW	3	bc	3	51	42	0.04	
	Hurst Castle ...	29.80	45	NNW	5	Cpq	29.80	0.00	45	41	0	WNW	4	bc	?	52	38	0.03	
	Dungeness ...	29.72	42	Z	0	bc	29.74	+ .01	44	41	0	NNE	2	bc	1	48	31	0.20	
	London ...	29.77	42	N	2	0	29.74	- .02	44	39	+ 3	NNW	3	bc	*	48	31	0.02	
	Oxford ...	29.81	38	NNW	2	b	29.75	- .04	42	38	+ 2	W	3	b	*	47	30	0.04	
	Cambridge ...	29.75	39	Z	0	S	29.70	- .03	42	39	- 4	SW	2	bc	*	50	30	0.14	
	Yarmouth ...	29.71	40	NNW	5	Cpq	29.68	+ .02	41	38	- 2	WNW	2	bc	3	44	32	0.14	
PENINSULA.	Cuxhaven ...	29.49	43	WNW	5	bc	29.55	+ .22	43	42	- 2	WSW	3	bc	*	49	41	0.04	
	Berlin ...	29.56	48	W	3	b	29.62	+ .15	46	42	- 1	NNW	2	b	*	57	39	0.08	
	Wiesbaden ...	*	*	*	*	*	29.60	- .04	39	39	- 10	N	2	r	*	55	37	0.47	
	Munich ...	29.69	41	SW	4	0	29.61	- .06	40	40	- 2	SW	4	r	*	45	39	0.12	
	The Helder ...	29.65	42	NNW	2	bc	29.64	+ .08	41	38	- 4	NNW	3	C	3	46	37	0.08	
	Brussels (9 a.m.)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Cape Gris Nez	?	40	NE	3	0	29.73	+ .02	40	37	- 4	NNW	3	bc	3	46	36	0.55	
	Paris ...	29.72	48	NNW	3	bc	29.82	+ .05	41	37	- 5	NNW	3	0	*	56	38	0.04	
	Brest ...	29.99	48	W	5	0	29.99	+ .02	45	42	- 2	N	2	C	5	57	39	-	
	Lorient ...	29.93	50	NNW	6	C	29.96	+ .03	45	41	- 2	NNW	2	bc	3	52	48	-	
FRANCE AND BELGIUM.	Rochefort ...	29.86	52	NNW	6	0	29.93	- .01	47	41	- 4	NNW	4	b	*	57	37	-	
	Belfort ...	29.76	44	W	4	bc	?	?	37	36	- 9	W	4	S	*	54	35	-	
	Lyons ...	29.85	52	W	2	bc	29.83	+ .05	41	37	+ 1	NNW	2	C	*	58	37	-	
	Nice ...	29.43	60	NNW	4	b	29.50	- .05	52	40	- 5	SSW	4	b	5	70	48	-	
	Perpignan ...	29.79	55	SSW	5	b	29.94	+ .12	47	42	- 8	SSW	2	f	*	66	43	-	
	Biarritz ...	30.02	54	NNW	5	C	30.03	+ .04	52	45	+ 1	N	4	b	3	59	48	-	
	Corunna ...	*	*	*	*	*	30.13	+ .02	59	55	+ 1	NE	3	b	3	64	48	-	
	Lisbon ...	29.95	55	N	5	b	30.01	+ .06	56	49	- 3	N	4	b	5	66	52	-	

For Explanation of Columns, see bottom of p. 4.

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

WEATHER CHARTS

for 8 a.m. on Sunday, 17 May, 1891.

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.

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

→ = forces 5 to 7; → = forces 1 to 4.

○ = dead calm.

SEA DISTURBANCE—Where considerable, is shewn thus:

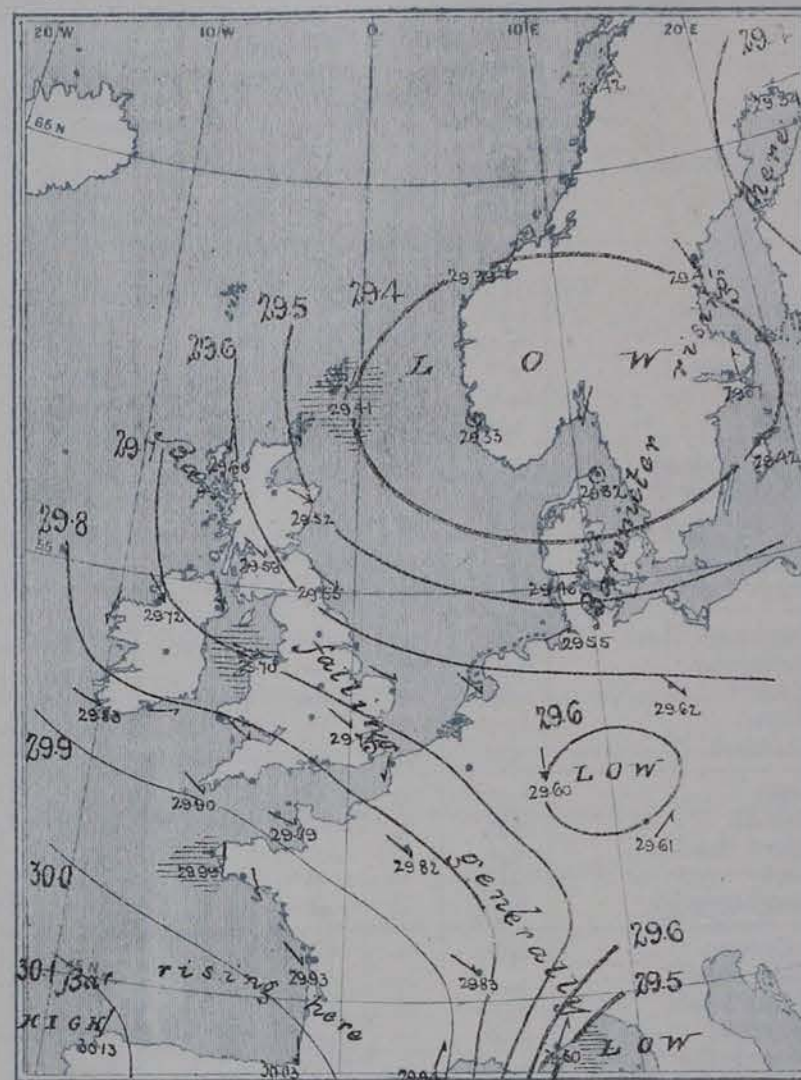
⊞ = Rough, ⊞ = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of May

During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.879
Stornoway	29.886
Wick	29.901
Nairn	29.908
Aberdeen	29.918
Leith	29.932
Shields	29.943
Spurn Head	29.956
York	29.962
Loughborough	29.973
Ardrossan	29.935
Mullaghmore	29.929
Donaghadee	29.947
Holyhead	29.956
Liverpool	29.961
Parsonstown	29.958
Valencia	29.963
Roche's Point	29.959
Pembroke	29.961
Scilly	29.974
Prawle Point	29.992
Jersey	29.989
Hurst Castle	29.982
Dover	29.970
LONDON	29.981
Oxford	29.981
Cambridge	29.976
Yarmouth	29.967



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 May.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily	Daily	at 8 a.m.		
	Max.	Min.	Dry.	Wet.	
Sumburgh Head.....	50.3	40.2	46.1	44.0	1.72
Stornoway	53.3	41.1	48.6	46.4	2.61
Wick.....	53.9	40.6	48.1	45.6	1.69
Nairn	56.3	42.2	48.6	45.4	1.61
Aberdeen	55.0	41.9	48.9	45.4	1.99
Leith.....	57.8	42.4	50.1	46.7	1.67
Shields	54.4	42.9	49.0	46.0	1.69
Spurn Head.....	54.3	45.1	49.3	47.2	1.67
York	59.6	42.2	49.8	46.7	1.85
Loughborough	61.7	42.6	51.1	47.7	2.09
Ardrossan	56.5	43.9	49.5	46.7	2.34
Mullaghmore	56.7	46.3	50.2	47.4	2.42
Donaghadee.....	56.0	44.2	49.6	47.5	2.26
Holyhead.....	56.2	46.2	50.5	48.0	1.90
Liverpool	58.0	45.0	50.8	46.9	1.84
Parsonstown	59.5	42.7	51.0	47.8	2.24
Valencia	58.1	46.3	52.8	49.7	3.20
Roche's Point	58.9	46.2	51.7	48.8	3.14
Pembroke.....	55.0	45.9	49.9	47.7	2.03
Scilly	56.3	48.2	52.7	50.3	1.73
Prawle Point	56.6	45.3	51.4	49.4	1.58
Jersey	59.4	47.2	53.6	50.5	1.87
Hurst Castle	54.6	45.7	51.6	49.9	1.78
Dover	57.0	46.7	52.5	49.3	1.79
LONDON	62.3	44.4	52.5	48.5	1.86
Oxford	60.6	43.4	50.6	47.5	1.95
Cambridge	62.0	42.0	51.7	48.5	1.90
Yarmouth	55.4	44.9	50.6	48.1	1.86

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 upwards, in an anticyclone lying to the westward of the Spanish Peninsula.
 Lowest, 29.4 ins. and less, in a large depression lying over the southern part of Scandinavia and the northern part of the North Sea,
 as well as in a smaller disturbance lying over the Gulf of Bothnia.

Gradients slight generally. *Barometer* falling in our Islands, — most in the west, but rising at the Continental stations.

TEMPERATURE

Highest, 59° at Colmar, 56° at Lisbon, 52° at Biarritz and Nice, and 47° at Marseilles, Rochefort and Perpignan.

Lowest, 34° at Hafavardar, 36° at Wick, 37° at Donaghadee, Loughborough, and Liverpool, and 38° at Helsingfors.

Frost occurred last night in many parts of the United Kingdom; in London the thermometer on the grass fell to 46° and at Loughborough to 45°.

WIND

Moderate from the NW^W over the greater part of our Islands and France, but N^W in the north of Scotland.

W^W over Denmark and the southern parts of the Baltic.

Light and variable at the Scandinavian stations.

WEATHER

Fine in the east and southeast of England as well as in the west and south of France.

Showering, with hail and sleet at many of our western stations, raining over western Germany; snow falling at Belfast.

Showers of hail or snow fell yesterday over nearly the whole of Western Europe.

SEA

Rough at Loughborough and rather rough at Holyhead and Brest, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 18th May 1891.

DISTRICTS.

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

FORECASTS.

NONE ISSUED

DISTRICTS.

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

FORECASTS.

NONE ISSUED

WARNINGS

The NORTH CONE was hoisted last evening in districts 0, 6, 7, 9 and part of 1.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.28	45	41	NN	8	c	5	Holyhead ...	29.89	45	39	NNW	6	bcg	5
Sumburgh Head ...	29.62	38	36	N	6	c	6	Valencia ...	30.12	49	44	N	5	bcg	5
Stornoway ...	29.87	38	37	N	7	s	6	Seilly ...	30.00	48	43	NN	5	c	5
Aberdeen ...	29.72	41	36	NN	6	cg/rsp	6	Jersey ...	29.88	49	44	NNW	4	bc	3
Shields ...	29.74	42	35	NNW	5	c	5	Dungeness ...	29.79	42	41	N	1	cp	1
Ardrossan ...	29.81	50	46	NN	4	b	3	London ...	29.75	47	44	NNW	3	c	8
Malin Head ...	29.95	41	39	NNW	5	bc	4	Yarmouth ...	29.71	44	41	N	5	cpq	5
Mullaghmore ...	30.03	40	38	NNW	6	cpq	5	Rocheport ...	29.88	50	49	NN	6	b	3
Belmullet ...	30.09	46	43	N	5	bc	*								

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

Weather fine and bright over Central and southern Russia and southeastern Europe, as well as at some stations on the southern side of the Mediterranean, and, temporarily, on the Swedish coast; very dull elsewhere, and exceedingly unsettled and violent over the British Islands and North Sea. Snow, hail or cold rain squalls later in nearly all parts of our Islands, but amounts reported not heavy; slight rain in the north of France.

Temperature falling fast all over Western Europe and change spreading southwards. Morning readings still exceeding 60° at most of the Mediterranean stations and in many parts of southeastern Europe, and exceeding 50° over the Spanish Peninsula and Central Europe, much lower elsewhere; below 40° over Scotland and the northeast of England, as well as over Ireland, and as low as 30° at Haparanda, 35° at Knapik and Stornoway, 34° at Aberdeen, 36° at Sumburgh Hd. and 37° at Narvik. Falling to reach 50° over nearly the whole of Great Britain during day, but rising to between 60° and 70° in the south of France and at Coimbra and Lisbon.

Wind mainly N², moderate to a gale, over the British Islands and North Sea, and moderate N over the Gulf of Bothnia, W², moderate to strong over Germany; light NW¹ in France, (strong at Toulon) but S³ over northern Italy, in Hungary and southern Russia, SE¹ over the Adriatic. Becoming less strong over our Islands later.

Barometer highest 30.1 ins. and more over Ireland, the western part of the Bay of Biscay and the northwest of Spain; 29.9 ins. and more over southern Russia. Lowest, 29.2 ins. and less in two depressions — one over the north of Ireland, the other over the Skagerrack and southeast of Norway; below 29.6 ins. over the Gulf of Genoa and the Riviera. Falling unsteadily throughout our Islands during day, but tending to rise over Scandinavia.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—Beaufort Scale is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.
* AN ASTERISK is inserted in all places for which information is not usually received.
The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark the observations are taken at 8 p.m. (Christiania time).

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 *Monday, 18th May,* 1891.
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 3.)	SHADE TEMP.		Amount of Rainfall.	
		Reading at 32° F. and Sea Level.	Dry.	Direc.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...	29.56	34	Z	0	0	29.73	+ .39	39	36	+ 5	S	2	C	*	?	32	0.04	
	Hernösand ...	29.60	38	S	2	C	29.72	+ .31	37	36	+ 1	Z	0	S	*	54	30	-	
	Stockholm ...	29.60	44	Z	0	C	29.69	+ .32	44	44	+ 3	Z	0	S	*	57	36	0.12	
	Wisby ...	29.62	42	SSW	4	b	29.67	+ .25	44	42	- 3	N	4	b	*	52	37	-	
	Bodö ...	29.49	43	SSE	1	b	29.59	+ .17	45	39	+ 3	E	2	b	1	49	36	-	
	Christiansund	29.45	45	NNE	2	b	29.52	+ .13	43	41	+ 1	ESE	1	b	3	46	37	-	
	Skudesnaes ...	29.47	41	SSW	6	T	29.58	+ .25	43	38	- 2	SE	4	C	4	50	37	-	
	Christiania Fjord (Færdø)	29.47	46	SSW	5	C	29.66	+ .32	44	41	+ 1	NW	2	bC	2	50	43	-	
	Skagen (The Scaw)	29.52	42	Z	0	b	29.64	+ .32	45	41	0	SSE	1	0	1	48	36	0.16	
	Fanö ...	29.60	40	SW	2	b	29.57	+ .11	46	42	+ 1	SSE	6	C	*	48	37	-	
BRITISH ISLANDS.	Sumburgh Head	29.44	44	NE	4	C	29.49	+ .08	45	42	+ 5	NE	1	bC	4	48	35	0.05	
	Stornoway ...	29.55	42	N	6	C	29.49	- .11	44	44	+ 10	N	7	T	6	46	33	0.10	
	Wick ...	29.51	45	NNE	3	T	29.48	- .02	45	44	+ 9	Z	0	0	1	46	34	0.38	
	Nairn ...	29.40	42	NE	3	T	29.46	- .09	43	41	+ 5	E	1	C	3	43	32	0.40	
	Aberdeen ...	29.37	41	W	3	C	29.49	- .03	46	41	+ 6	SE	2	bC	3	46	38	0.02	
	Leith ...	29.46	49	NW	3	0	29.43	- .15	46	42	+ 3	E	1	bC	*	53	38	-	
	Shields ...	29.49	41	E	2	C	29.42	- .13	41	38	0	Z	0	m	3	44	29	0.02	
	Spurn Head ...	29.51	42	SW	2	bC	29.40	- .12	44	40	+ 4	NE	4	bC	4	44	34	0.08	
	York ...	29.53	37	NW	1	bC	29.43	- .18	40	35	0	N	1	b	*	44	34	0.22	
	Loughborough	29.58	38	NW	2	T	29.39	- .32	38	36	+ 1	EHE	3	0	*	45	34	0.28	
GERMANY & HOLLAND.	Ardrossan ...	29.53	46	W	2	ophs	29.45	- .14	43	41	+ 2	EHE	1	om	1	48	39	-	
	Malin Head ...	29.55	43	NW	4	bP	29.46	- .19	44	41	+ 5	NHE	5	ohp	4	45	35	-	
	Mullaghmore ...	29.55	45	NW	5	bV	29.50	- .22	46	42	+ 6	NHE	5	bC	4	46	37	0.05	
	Belmullet ...	29.57	45	NHE	3	b	29.55	- .18	47	42	+ 4	NHE	6	b	*	47	39	0.08	
	Donaghadee ...	29.53	45	NE	4	b	29.45	- .24	44	41	+ 7	EHE	4	bC	3	47	36	0.04	
	Liverpool (Bidston)	29.54	41	W	2	C	29.42	- .24	42	38	+ 5	NHE	1	b	2	44	31	0.07	
	Holyhead ...	29.56	43	NW	1	C	29.41	- .29	44	39	+ 1	NE	3	b	3	45	38	0.04	
	Parsonstown ...	29.54	45	NE	1	0	29.49	- .28	40	38	- 5	Z	0	0	*	47	27	0.05	
	Valencia ...	29.47	46	EHE	3	rm	29.52	- .31	51	50	+ 5	NE	3	C	3	52	38	0.26	
	Roche's Point...	29.53	47	NW	3	or	29.43	- .41	42	39	- 3	N	3	b	3	50	38	0.60	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.53	44	WSW	3	T	29.36	- .45	41	39	- 2	NE	3	og	3	46	38	0.38	
	Scilly ...	29.63	48	SSW	5	T	29.30	- .60	47	45	+ 2	W	5	op	5	51	44	0.28	
	Prawle Point ...	29.67	45	WSW	5	0	29.23	- .43	48	46	+ 2	W	3	og	3	48	42	0.21	
	Jersey (St. Aubin's)	29.67	49	WSW	4	og	29.36	- .53	49	47	+ 4	W	4	cpm	3	50	44	0.29	
	Hurst Castle ...	29.64	48	W	7	bcp	29.26	- .54	48	48	+ 3	NW	4	cp	5	52	33	0.38	
	Dungeness ...	29.61	47	W	6	cqp	29.30	- .44	49	48	+ 5	SW	7	C	6	51	41	0.42	
	London ...	29.59	46	N	3	cp	29.26	- .48	40	40	- 4	NE	2	or	*	50	40	0.51	
	Oxford ...	29.57	40	SW	3	T	29.32	- .43	36	35	- 6	NHE	3	T	*	50	35	0.56	
	Cambridge ...	29.60	41	W	2	T	29.32	- .38	37	36	- 5	NE	2	T	*	52	32	0.82	
	Yarmouth ...	29.57	42	WSW	3	cqj	29.38	- .30	40	39	- 1	NE	2	T	3	46	34	0.62	
PENINSULA.	Cuxhaven ...	29.66	45	NW	3	C	29.65	+ .10	41	40	- 2	SSW	3	b	*	49	40	-	
	Berlin ...	29.61	50	NW	4	T	29.77	+ .15	45	42	- 1	W	4	bC	*	57	39	0.12	
	Wiesbaden ...	*	*	*	*	*	29.78	+ .18	44	41	+ 5	S	1	0	*	56	36	0.04	
	Munich ...	29.80	37	SW	3	C	29.90	+ .29	40	37	0	SW	4	b	*	46	34	0.35	
	The Helder ...	29.61	42	SW	4	C	29.47	- .17	45	42	+ 4	S	4	2	3	46	39	0.04	
	Brussels (9 a.m.)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Cape Gris Nez	29.64	46	W	6	0	29.34	- .39	45	44	+ 5	S	6	T	5	48	39	0.24	
	Paris ...	29.82	42	NW	2	0	29.58	- .24	46	43	+ 5	S	5	0	*	54	41	0.04	
	Brest ...	29.81	48	W	3	0	29.45	- .54	49	48	+ 4	WSW	4	0	4	54	41	0.16	
	Lorient ...	29.80	48	W	4	0	29.44	- .52	50	48	+ 5	SW	4	0	5	52	45	0.24	
PENINSULA.	Roche fort ...	29.95	51	NW	4	bC	29.71	- .22	54	52	+ 7	SW	6	0	*	?	41	-	
	Belfort ...	?	41	N	3	bC	?	?	47	46	+ 10	N	3	bC	*	46	30	0.32	
	Lyons ...	29.91	47	NW	1	b	29.88	+ .05	44	39	+ 3	SE	1	b	*	53	35	-	
	Nice ...	29.62	51	SE	7	b	29.86	+ .36	51	40	- 1	ESE	2	b	2	70	43	-	
	Perpignan ...	29.91	54	NW	4	b	29.90	- .04	55	49	+ 8	NW	2	b	*	60	41	-	
	Biarritz ...	30.01	55	NW	4	bC	29.78	- .25	56	50	+ 4	SSE	2	b	2	59	48	-	

For Explanation of Columns, see bottom of p. 4.

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

WEATHER CHARTS

for 8 a.m. on Monday, 18th May, 1891.

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:

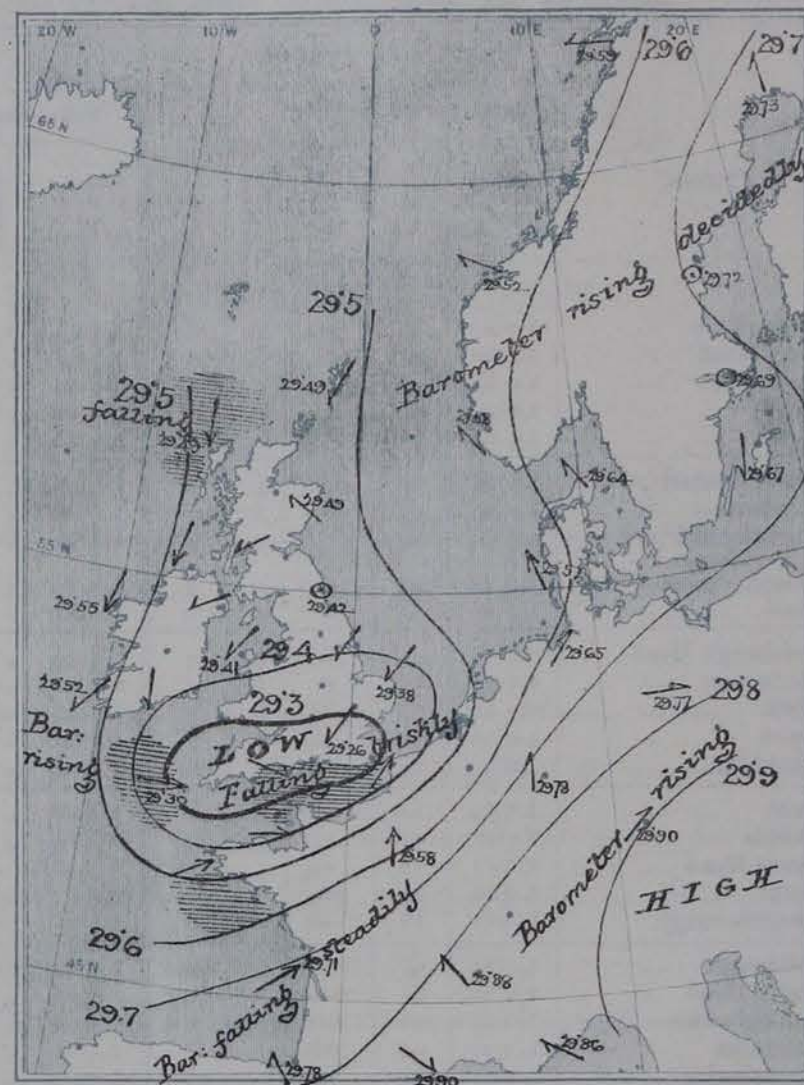
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of May

During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.879
Stornoway	29.886
Wick	29.901
Nairn	29.908
Aberdeen	29.918
Leith	29.932
Shields	29.943
Spurn Head	29.956
York	29.962
Loughborough	29.973
Ardrossan	29.985
Mullaghmore	29.929
Donaghadee	29.947
Holyhead	29.956
Liverpool	29.961
Parsonstown	29.958
Valencia	29.963
Roche's Point	29.959
Pembroke	29.961
Sailly	29.974
Prawle Point	29.992
Jersey	29.989
Hurst Castle	29.982
Dover	29.970
LONDON	29.981
Oxford	29.981
Cambridge	29.976
Yarmouth	29.967



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.

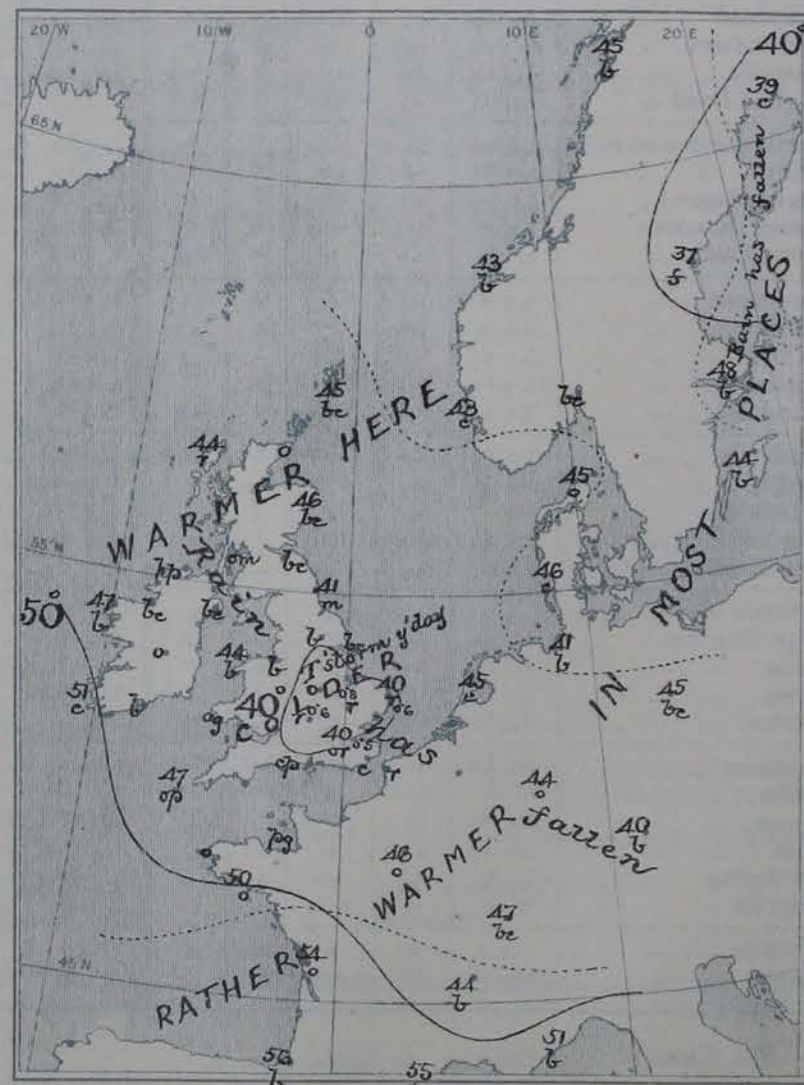
WEATHER is shown by Letters of the Beaufort Scale.

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 May.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	50.3	40.2	46.1	44.0	1.72
Stornoway.....	53.3	41.1	48.6	46.4	2.61
Wick.....	53.9	40.6	48.1	45.6	1.69
Nairn.....	56.3	42.2	48.6	45.4	1.61
Aberdeen.....	55.0	41.9	48.9	45.4	1.99
Leith.....	57.8	42.4	50.1	46.7	1.67
Shields.....	54.4	42.9	49.0	46.0	1.69
Spurn Head.....	54.3	45.1	49.3	47.2	1.57
York.....	59.6	42.2	49.8	46.7	1.85
Loughborough.....	61.7	42.6	51.1	47.7	2.09
Ardrossan.....	56.5	43.9	49.5	46.7	2.34
Mullaghmore.....	56.7	46.3	50.2	47.4	2.42
Donaghadee.....	56.0	44.2	49.6	47.5	2.26
Holyhead.....	56.2	46.2	50.5	48.0	1.90
Liverpool.....	58.0	45.0	50.8	46.9	1.84
Parsonstown.....	59.5	42.7	51.0	47.8	2.24
Valencia.....	58.1	46.3	52.8	49.7	3.20
Roche's Point.....	58.9	46.2	51.7	48.8	3.14
Pembroke.....	55.0	45.9	49.9	47.7	2.03
Sailly.....	56.3	48.2	52.7	50.3	1.73
Prawle Point.....	56.6	45.3	51.4	49.4	1.56
Jersey.....	59.4	47.2	53.6	50.5	1.87
Hurst Castle.....	58.6	45.7	51.6	49.9	1.78
Dover.....	57.0	46.7	52.5	49.3	1.79
LONDON.....	62.3	44.4	52.5	48.5	1.86
Oxford.....	60.6	43.4	50.6	47.5	1.95
Cambridge.....	62.0	42.0	51.7	48.5	1.90
Yarmouth.....	55.4	44.9	50.6	48.1	1.86

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, 29.5 in. and upwards, over South Germany, and also over the southern parts of the Iberian Peninsula.
 Lowest, 29.3 in. and less, in an elongated depression lying over the Channel and south of England.
 Gradients rather steep over the northern parts of France, but slight elsewhere.
 Barometer falling briskly over England and France, and slightly on our extreme northwest coast, but rising elsewhere.

TEMPERATURE

Highest, 56° at Birmmgh, 55° at Perpignan and Lisbon, 54° at Rochefort, 51° at Valencia Island and Nice, and 50° at Orient.
 Lowest, 36° at Oxford, 37° at Harrogate and Cambridge, 38° at Loughborough, and 39° at Haparanda.
 Slight frost occurred last night over the central part of Ireland and England.

WIND

Moderate to strong from the Wnd or SWnd over France, Germany, and the extreme south of England.
 Light or moderate from the NEnd or End in most other parts of the United Kingdom, but strong from the Nnd on our extreme northwest coast.
 Moderate to strong from the SEnd on the eastern shore of the North Sea.

WEATHER

Dull and rainy over the southern counties of England; showery at the Channel stations.
 Fair in most other parts of Western Europe, but showery on our extreme northwest coast.
 Since yesterday morning 0.5 in. of rain has fallen in London, 0.6 in. at Rochefort, Oxford and Yarmouth, and 0.8 in. at Cambridge. A thunderstorm occurred at Spurn H^d and thunder was heard at Cambridge.

SEA

Rough at Haparanda, rather rough in the Channel, but moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The future movement of the southern depression are at present very doubtful. With the present distribution of pressure it is not improbable that the disturbances will gradually fill up. The general conditions over our Islands are likely to remain exceedingly unsettled.

FORECASTS

For the 24 hours ending at NOON on 19th May 1891.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	E nd and NE nd winds, light or moderate; fair to showery.
1	SCOTLAND EAST	
2	ENGLAND N.E.	NE nd winds, moderate; fine to dull & rainy.
3	ENGLAND EAST	NE nd to variable breezes; unsettled, rain at times.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	Wind varying greatly both in direction and force; unsettled, rain at times.

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	NE nd winds, freshening; changeable, showery.
7	ENGLAND N.W.	
8	ENGLAND S.W.	SW nd winds, fresh or strong; changeable, showery.
9	IRELAND NORTH	N nd and NE nd winds, strong; squally, showery.
10	IRELAND SOUTH	N nd winds, moderate; fair generally, but local showers.

WARNINGS

The SOUTH CONE was hoisted last evening in district 5, and part of 8. The NORTH CONE is still flying in districts 6, 7 and 9, but has been lowered in district 10 and part of 1.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.40	50	45	W	4	0	3		Holyhead ...	29.62	44	40	W	3	4
Sumburgh Head									Valencia ...						
Stornoway ...	29.59	44	40	N	4	0	4		Scilly ...						
Aberdeen ...									Jersey ...	29.84	49	41	W	4	3
Shields ...									Dungeness ...	29.70	43	41	WNW	5	4
Ardrossan ...									London ...						X
Malin Head ...	29.60	43	38	WNW	4	0	3		Yarmouth ...						
Mullaghmore ...									Rocheport ...	30.03	55	47	NW	4	2
Belmullet ...	29.65	46	42	NNE	5	C	*								

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

Continental information not arrived

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 10TH TO THE 16TH MAY 1891.

The past week has witnessed a new series of weather changes of a very decided character. At the commencement of the time a large anticyclone lay to the northward of the United Kingdom while a well marked depression existed over Switzerland, Western Germany and the east of France. The prevailing winds were therefore N^W or N^E and the weather was cool for the time of year, with rain in France and the east and southeast of England. During Monday and Tuesday, however, the anticyclone in the far north spread southwards until it embraced the greater part of Western Europe and a very decided improvement in the weather took place, with a considerable rise of temperature. On the former day maximum temperatures exceeding 70° were recorded at some of the English stations, while on Tuesday and Wednesday the thermometer over the inland districts rose to between 75° and 80°.

The large anticyclone now began to recede in a southwesterly direction towards the Atlantic and depressions were observed in the far north moving from the Atlantic to the northern parts of Scandinavia. The latter system was at first too distant to materially affect the weather in any but our extreme northern districts, but on Thursday night a large disturbance advanced from the northwest and in the course of the ensuing 48 hours its centre moved slowly southeastwards across the southern parts of Scandinavia to Denmark and the Baltic. The passage of this disturbance was marked by strong winds from the NW in nearly all parts of Western Europe (with a gale in Scotland) and by heavy showers of rain, hail or snow, with thunderstorms at many of the English stations. Temperature fell as briskly as it had previously risen, and at the close of the week the maximum readings were below 50° over the greater part of the United Kingdom and below 40° at some of our northern 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.
The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark the observations are taken at 8 p.m. (Christiania time).

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 *Tuesday 19th May* 1891.
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		BAROM.	TEMP.	WIND.			BAROMETER.		SHADE TEMP.			WIND.				SHADE TEMP.			
STATIONS.		Reading at 32° F. and Sea Level.	Dry.	Dirce.	Force. (0 to 12.)	Weather.	Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirce.	Force. (0 to 12.)	Weather.	Sea. (0 to 6.)	Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.	Haparanda ...	29.80	41	2	0	bc	29.78	0.0	47	43	+4	NW	4	0	*	?	30	—	
	Hernösand ...	29.76	39	N	2	bc	29.74	+0.2	45	42	+3	N	2	bc	*	46	30	—	
	Stockholm ...	29.71	46	2	0	bc	29.72	+0.1	48	44	0	2	0	bc	*	53	36	—	
	Wisby ...	29.71	44	E	4	bc	29.74	+0.3	49	42	+7	SW	2	bc	*	52	35	—	
	Bodö ...	29.67	45	SE	2	bc	29.75	+0.8	50	43	+7	ENE	2	bc	1	50	35	—	
	Christiansund	29.65	41	SW	2	c	29.60	+0.5	44	41	+3	ENE	3	bc	3	46	37	0.03	
	Skudesnaes ...	29.57	45	SE	4	0	29.52	+0.6	46	42	+4	SE	4	0	4	48	43	—	
	Christiania Fjord (Færder)	29.64	48	ENE	2	0	29.52	+1.1	43	43	—	ENE	6	0	4	50	?	0.04	
	Skagen (The Seaw)	29.61	45	SE	2	0	29.40	+2.1	46	45	+1	SE	5	0	4	52	43	0.35	
	Fanö ...	29.50	45	SE	2	0	29.46	+0.4	46	42	0	W	4	0	*	52	41	0.16	
BRITISH ISLANDS.	Samburgh Head	29.52	43	SE	1	c	29.44	+0.8	46	42	+4	NW	3	bc	4	48	37	0.01	
	Stornoway ...	29.56	40	N	6	0	29.53	+0.4	44	42	0	NE	6	0	6	48	37	0.12	
	Wick ...	29.53	48	N	1	0	29.45	+1.0	46	44	+2	N	4	bc	2	53	38	0.03	
	Nairn ...	29.48	46	E	2	bc	29.45	+0.3	45	42	+3	ENE	1	bc	2	50	36	0.01	
	Aberdeen ...	29.49	44	NE	4	bc	29.38	+1.1	41	39	+2	NNW	5	bc	6	47	38	0.41	
	Leith ...	29.49	47	E	3	bc	29.43	+0.6	46	41	0	NW	2	0	*	51	37	—	
	Shields ...	29.45	44	NNW	3	bc	29.38	+0.7	43	39	+4	W	3	0	3	48	31	—	
	Spurn Head ...	29.43	45	NE	4	bc	29.47	+0.7	48	44	+4	WNW	5	0	4	48	38	—	
	York ...	29.44	48	WNW	2	bc	29.46	+0.2	48	44	+4	W	3	0	*	52	30	—	
	Loughborough	29.44	50	NE	2	bc	29.52	+0.8	46	41	+5	SW	2	bc	*	53	32	—	
GERMANY & HOLLAND.	Ardrossan ...	29.46	51	ENE	1	bc	29.45	+0.1	48	44	+4	NW	1	bc	1	52	41	—	
	Malin Head ...	29.52	47	N	4	bc	29.52	+0.6	42	40	+2	NNW	5	bc	4	48	42	0.03	
	Mullaghmore ...	29.57	48	N	6	bc	29.60	+0.3	43	40	+3	NNW	5	bc	4	51	42	0.05	
	Belmullet ...	29.60	46	NNW	6	0	29.65	+0.5	43	41	+2	N	2	0	*	50	41	0.26	
	Donaghadee ...	29.49	50	NNW	3	bc	29.50	+0.5	46	43	+3	NNW	4	0	2	52	43	0.02	
	Liverpool (Bidston)	29.46	48	NNW	2	bc	29.50	+0.4	47	42	+5	W	4	0	4	52	38	—	
	Holyhead ...	29.48	46	N	3	bc	29.52	+0.4	47	43	+4	W	3	bc	2	50	35	—	
	Parsonstown ...	29.53	49	2	0	bc	29.62	+0.9	45	43	+2	2	0	*	54	34	0.03		
	Valencia ...	29.61	51	N	4	bc	29.70	+0.9	49	45	+4	N	3	0	3	53	43	—	
	Roche's Point...	29.52	54	N	2	bc	29.63	+1.1	48	45	+3	N	3	bc	3	50	41	—	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.48	46	NE	3	bc	29.57	+0.9	43	43	+2	NE	2	bc	2	49	39	0.03	
	Scilly ...	29.47	46	NNW	5	c	29.63	+1.6	45	46	+1	WNW	4	0	5	49	42	0.03	
	Prawle Point ...	29.46	42	NE	3	bc	29.64	+1.2	46	43	+3	WNW	2	bc	1	48	35	0.11	
	Jersey (St. Aubin's)	29.45	52	W	4	bc	29.68	+1.2	46	44	+2	NW	4	bc	3	54	45	0.31	
	Hurst Castle ...	29.44	44	NNW	3	bc	29.60	+1.2	46	43	+3	NNW	3	bc	3	49	41	0.01	
	Dungeness ...	29.39	44	NNW	4	c	29.54	+1.1	40	40	—	NE	3	0	2	53	39	0.12	
	London ...	29.44	40	N	2	0	29.57	+1.3	45	40	+5	N	1	bc	0	45	34	0.13	
	Oxford ...	29.51	41	E	1	c	29.57	+0.6	43	41	+2	WNW	1	bc	*	44	32	0.07	
	Cambridge ...	29.45	43	N	2	c	29.53	+0.8	48	44	+4	E	1	bc	*	49	30	0.02	
	Yarmouth ...	29.39	42	NNW	4	c	29.56	+1.2	45	42	+3	WNW	2	bc	3	45	33	0.17	
GERMANY & HOLLAND.	Cuxhaven ...	29.52	42	SE	6	0	29.53	+0.1	44	42	+2	W	3	0	*	52	41	0.28	
	Berlin ...	29.71	52	SE	4	c	29.67	+0.4	51	49	+2	SW	4	0	*	57	45	—	
	Wiesbaden ...	*	*	*	*	*	29.76	+0.2	50	47	+3	SW	4	0	*	57	?	—	
	Munich ...	29.78	48	SE	3	c	29.51	+2.7	51	47	+4	W	4	0	*	54	35	—	
	The Helder ...	29.38	43	NW	2	c	29.59	+1.2	45	41	0	SW	2	bc	2	48	43	0.28	
	Brussels (9 a.m.)	*	*	*	*	*	29.62	+0.4	48	45	+3	E	4	0	*	52	41	0.47	
	Cape Gris Nez	29.38	47	WNW	4	0	29.53	+1.2	43	42	+1	E	2	0	2	50	39	0.28	
	Paris ...	29.53	49	SW	3	0	29.68	+1.2	51	49	+2	SW	4	0	*	56	42	0.28	
	Brest ...	29.53	53	W	4	0	29.69	+1.2	46	44	+2	SW	3	0	3	53	43	0.12	
	Lorient ...	29.53	51	WNW	3	bc	29.69	+1.2	46	43	+3	WNW	4	0	5	54	46	0.12	
FRANCE AND BELGIUM.	Rochefort ...	29.63	53	W	6	0	29.75	+1.2	53	51	+2	WNW	5	0	*	57	43	0.28	
	Belfort ...	29.73	51	W	3	0	29.75	+0.2	48	46	+2	W	3	0	*	59	44	0.98	
	Lyons ...	29.73	56	SE	2	0	29.84	+1.1	53	48	+5	E	6	0	*	60	?	0.12	
	Nice ...	29.58	52	SW	4	c	29.86	+1.3	52	51	+1	W	2	0	3	64	50	—	
	Perpignan ...	29.71	69	E	4	bc	29.89	+1.2	58	55	+3	N	2	0	*	74	50	—	
	Biarritz ...	29.78	59	NNW	3	0	29.88	+1.1	57	52	+5	2	0	0	2	64	48	—	
	Corunna ...	29.95	57	WNW	3	bc	29.96	+0.1	58	53	+5	E	3	0	2	64	53	—	
	Lisbon ...	29.95	57	WNW	3	bc	29.96	+0.1	58	53	+5	E	3	0	2	64	53	—	

For Explanation of Columns, see bottom of p. 1.

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

WEATHER CHARTS

for 8 a.m. on Tuesday, 19th May, 1891.

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.

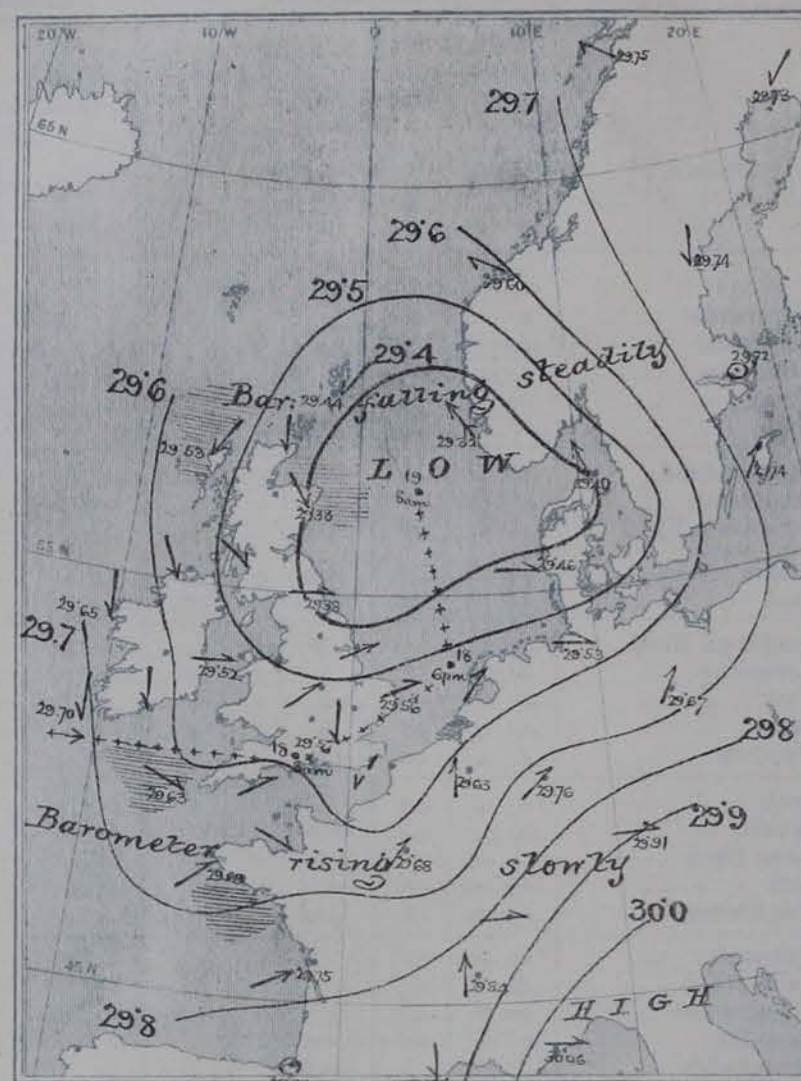
SEA DISTURBANCE—Where considerable, is shown thus:

⊞ = Rough. ⊞ = High.

MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.879
Stornoway	29.886
Wick	29.901
Nairn	29.908
Aberdeen	29.918
Leith	29.932
Shields	29.943
Spurn Head	29.956
York	29.962
Loughborough	29.973
Ardrossan	29.935
Mullaghmore	29.929
Donaghadee	29.947
Holyhead	29.956
Liverpool	29.961
Parsonstown	29.958
Valencia	29.963
Roche's Point	29.959
Pembroke	29.961
Scilly	29.974
Prawle Point	29.992
Jersey	29.989
Hurst Castle	29.982
Dover	29.970
LONDON	29.981
Oxford	29.981
Cambridge	29.976
Yarmouth	29.967



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 May.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	Dry. at 8 a.m.	Wet.	
Sumburgh Head	50.3	40.2	46.1	44.0	1.72
Stornoway	53.3	41.1	48.6	46.4	2.61
Wick	53.9	40.6	48.1	45.6	1.69
Nairn	56.3	42.2	48.6	45.4	1.61
Aberdeen	55.0	41.9	48.9	45.4	1.99
Leith	57.8	42.4	50.1	45.7	1.67
Shields	54.4	42.9	49.0	46.0	1.69
Spurn Head	54.3	45.1	49.3	47.2	1.57
York	59.6	42.2	49.8	46.7	1.85
Loughborough	61.7	42.6	51.1	47.7	2.09
Ardrossan	56.5	43.9	49.5	46.7	2.34
Mullaghmore	56.7	46.3	50.2	47.4	2.42
Donaghadee	56.0	44.2	49.6	47.5	2.26
Holyhead	56.2	46.2	50.5	48.0	1.90
Liverpool	58.0	45.0	50.8	46.9	1.84
Parsonstown	59.5	42.7	51.0	47.8	2.24
Valencia	58.1	46.3	52.8	49.7	3.20
Roche's Point	58.9	46.2	51.7	48.8	3.14
Pembroke	55.0	45.9	49.9	47.7	2.03
Scilly	56.3	48.2	52.7	50.3	1.73
Prawle Point	56.6	45.3	51.4	49.4	1.56
Jersey	59.4	47.2	53.6	50.5	1.87
Hurst Castle	58.6	45.7	51.6	49.9	1.78
Dover	57.0	46.7	52.5	49.3	1.79
LONDON	62.3	44.4	52.5	48.5	1.86
Oxford	60.6	43.4	50.6	47.5	1.95
Cambridge	62.0	42.0	51.7	48.5	1.90
Yarmouth	55.4	44.9	50.6	48.1	1.86

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 30.0 ins. and more to 29.8 ins. over the southern parts of France; 29.7 ins. and more off the west of Ireland and also over Sweden and the Baltic.
Lowest 29.3 ins. and less in the depression over the North Sea.
Gradients slight generally. Barometer rising in the southwest and south falling in the north.

TEMPERATURE

Highest 58° at Lisbon and Perpignan, 57° at Biarritz, 51° at Paris and Berlin, 50° at Bodo, 49° at Valencia Island, Scilly and Stockholm.
Lowest 41° at Aberdeen, 42° at Malin Head, 43° at Shields, and 45° in London.
 During yesterday the highest reading recorded in London was 42°, & in the night sharp frost occurred ^{the grass} ~~on~~.

WIND

Strong SE² in Norway and the Skager Rack, moderate N² to NW² in Scotland and Ireland; light and variable from between SW. and N. over England, moderate W² to S² over France. Scilly reports a Whirlwind to have passed the station, moving eastwards at 5 am.

WEATHER

Changeable and showery over the northern and western parts of the Kingdom, rainy over the Straits of Dover and some parts of France, fine over most of the inland and southern parts of England. The rainfall over Belgium and the E. of France has been large - especially at Belfort.

SEA

Rough in the north and off Ushant, moderate on the western coasts of our Islands, ^{elsewhere} slight or smooth.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression which had reached our southern coasts yesterday moved north-eastwards to the neighbourhood of the Helder during the day, and is now passing steadily in about a N.W. direction over the North Sea. In its rear the barometer has risen decidedly, and as a whole the weather has improved, in Scotland and on our western coasts, however cold showers are reported, and in some parts of Kent and France rain is again ^{falling} owing to the development of some very shallow secondary system over the Channel. These local disturbances in the southwest and south will probably cause showers at several of our southern stations today.

FORECASTS

For the 24 hours ending at NOON on 20th May 1891.

DISTRICTS.

FORECASTS.

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

N² and NW² winds, moderate; showery, unsettled, finer later.
 Varying SW to NW winds, light; fair generally, but local showers still probable.

DISTRICTS.

FORECASTS.

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

Same as Nos 0 and 1.

NW² winds, moderate; some showers but fair as a whole; cold.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA	SEA		BAR:	THER:		WIND		WEA	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.56	48	39	SE	4	c	3	Holyhead ...	29.47	47	41	N	3	c	2
Sumburgh Head ...	29.53	46	44	SE	1	c	3	Valencia ...	29.55	51	47	N	4	c	4
Stornoway ...	29.53	48	45	N	5	c	3	Scilly ...	29.38	40	42	NE	5	c	6
Aberdeen ...	29.51	46	40	ENE	3	c	3	Jersey ...	29.41	52	50	N	5	c	4
Shields ...	29.46	45	40	NE	3	c	4	Dungeness ...	29.33	52	50	W	7	c	5
Ardrossan ...	29.45	51	44	ENE	1	c	1	London ...	29.35	41	40	N	3	c	8
Malin Head ...	29.43	48	44	NNE	4	c	3	Yarmouth ...	29.32	40	39	NE	5	c	5
Mullaghmore ...	29.52	50	46	NW	6	c	4	Rocheport ...	29.59	58	58	W	6	c	1
Belmullet ...	29.59	48	45	NNE	6	c	*								

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

Weather dull and rainy over the south and east of England and the north of France, as well as over the Gulf of Ireland, the Baltic Provinces and some part of Austria. Fair or fine in most other parts of Europe, but cloudy in places. Some improvement taking place later over England and France, but rain setting in over the Netherlands, Germany, and the eastern shores of the North Sea.

Temperature highest 66° at Brindisi, 65° at Oran, and 62° at Barcelona, San Fernando and Algiers; above 55° at most of the Mediterranean stations but below that point over northern Italy and the south of France. Lowest, 36° at Oxford, 37° at Herosand and Cambridge, 38° at Loughborough and 39° at Haparanda; below 45° over nearly the whole of central, northern, and northwestern Europe. Daily maxima exceeding 50° in the western and northern parts of the United Kingdom, but thermometers remaining below 45° at some of our eastern and southeastern stations.

Winds light from the N^W or NE² over the greater part of the United Kingdom, but strong on our extreme northwest coast; moderate to strong from the W² or SW² over the Channel and France; SE³ on the eastern shores of the North Sea. Moderate from the N² or NW² over Italy, Austria, and eastern Germany, but light from the S² in Russia, as well as in Algeria. Subsequently backing to the N² in the extreme south and southeast of England.

Barometer highest 29.9 in: to 30.0 in: or a little more over Algeria, the south of Spain, and the eastern part of the Mediterranean, as well as over Central Russia. Lowest 29.3 in: and less, in an elongated depression lying over the Channel and south of England; 29.6 in: to 29.5 in: and less, in another disturbance stretching southwards from the Baltic Provinces to Galicia. Depression over England subsequently moving slowly in an east-northeasterly direction and barometer rising in all parts of our Islands.

General Remarks on the Weather over Europe for 24 hours ended May 18th

Weather showery in the west of our Islands, with hail or sleet in many places; rainy over Western and Southern Germany; snow reported in Lapland and also at Belfast. Fine in nearly all other parts of Europe, but dull over northern Italy, as well as in Algeria. Showers of hail or snow falling during day, in many parts of the United Kingdom, and heavy rain setting in over the southern districts at night. Considerable amount of rain falling also in Austria, and thunderstorms occurring in Saxony.

Temperature highest 70° at Brindisi, 67° at Liffey, 66° at Palermo, and 65° at Algiers; above 60° over the central and southern parts of the Mediterranean generally. Lowest, 34° at Haparanda and Stornoway, 36° at Wick, and 37° at Donaghadee, Liverpool, Loughborough and Belfast; below 45° in nearly all parts of northern and northwestern Europe. Daily maxima over our Islands below 50° excepting in the extreme south; thermometer reaching 70° or more over Southern Europe, and exceeding 80° in Algeria and south of Italy.

Wind moderate or fresh from the NW² over the greater part of our Islands and France, W¹ to S¹ in Italy; W³ or SW³ over Denmark, north Germany and the Baltic. Light and variable in Scandinavia, and also over the greater part of Central Europe; light from the S² in Russia and Algeria, moderate from N. or NE. in Spain. Subsequently backing to the W² or SW² over the Channel and Bay of Biscay; very strong winds from between SW. and NW. setting in over Italy and the south of France.

Barometer highest 30.1 in: and upwards, in an anticyclone lying off the northwest of Spain; 29.9 in: and upwards in another system lying over the south of Russia. Lowest 29.4 in: and less, in a large depression over the southern part of Scandinavia and also in a smaller one over Lapland; 29.5 in: and less, in two systems lying over Austria and the Adriatic. New disturbance appearing later off the south of Ireland, and barometer falling quickly on our southwest coast generally.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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

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

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

„ Weekly „ „ „ £1 10 0 „

DAILY WEATHER REPORT.

for *Wednesday, 20th May, 1891.*
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
		Reading at 32° F. and Sea Level.	Dry.	Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...	29.70	44	N	2	bc	29.86	+13	46	41	-1	NE	2	b	*	52	34	.	
	Hernösand ...	29.81	42	Z	0	b	29.82	+08	45	43	0	SSE	2	0	*	46	30	.	
	Stockholm ...	29.76	45	E	2	r	29.76	+04	49	46	+1	S	2	0	*	54	37	.	
	Wisby ...	29.78	45	S	4	b	29.72	-02	54	49	+5	SSE	4	b	*	61	36	.	
	Bodö ...	29.73	51	SSE	2	bc	29.71	-04	51	44	+1	F	2	c	*	52	41	.	
	Christiansund	29.53	51	SSE	3	c	29.71	+11	50	42	+6	S	2	b	*	57	43	.	
	Skudesnaes ...	29.41	45	SSE	8	o	29.42	+10	43	41	-3	SE	8	0	6	52	41	0.55	
	Christiania Fjord (Fjærd)	29.64	46	SSW	3	b	29.65	+13	44	41	+1	EHE	2	0	4	46	43	.	
	Skagen (The Scaw)	29.61	48	S	1	o	29.62	+22	43	42	-3	NE	1	b	1	54	41	0.24	
	Fanö ...	29.63	44	SSE	2	r	29.68	+22	48	46	+2	WSW	5	c	*	52	43	0.08	
BRITISH ISLANDS.	Sumburgh Head	29.48	48	NNE	5	c	29.50	+06	42	41	-4	NNE	1	r	4	50	40	0.10	
	Stornoway ...	29.63	45	NE	5	c	29.65	+12	47	45	+3	E	4	bc	4	48	30	0.10	
	Wick ...	29.55	47	N	3	bc	29.58	+13	48	45	+2	N	4	c	3	53	35	.	
	Nairn ...	29.55	51	E	1	b	29.61	+16	47	44	+2	W	2	bc	1	53	40	0.01	
	Aberdeen ...	29.50	48	NW	5	bcq	29.61	+23	45	42	+4	NW	4	c	3	50	39	0.09	
	Leith ...	29.52	51	NE	1	bc	29.63	+20	48	43	+2	NW	1	0	*	55	40	.	
	Shields ...	29.50	50	N	3	bc	29.63	+25	48	44	+5	W	1	c	3	52	37	.	
	Spurn Head ...	29.56	48	S	4	c	29.64	+20	45	43	-3	SW	2	om	3	54	41	0.01	
	York ...	29.53	50	N	2	c	29.66	+20	47	45	-1	W	1	b	*	55	36	0.01	
	Loughborough	29.59	49	WSW	2	o	29.69	+17	48	44	+2	SW	2	c	*	57	39	.	
GERMANY & HOLLAND.	Ardrossan ...	29.56	47	SSW	1	o	29.63	+18	46	43	-2	W	1	c	1	55	38	.	
	Malin Head ...	29.55	47	N	4	c	29.66	+14	46	43	+4	N	4	b	3	48	42	0.01	
	Mullaghmore ...	29.62	45	NW	4	cp	29.68	+08	46	43	+3	NE	4	c	2	49	41	0.09	
	Belmullet ...	29.67	44	N	3	c	29.71	+06	47	44	+4	NNE	4	cp	*	47	39	0.25	
	Donaghadee ...	29.56	48	NE	3	c	29.66	+16	48	45	+2	NE	2	c	0	52	44	.	
	Liverpool (Bidston)	29.58	50	NW	3	b	29.66	+16	46	43	-1	SW	1	o	1	51	41	0.11	
	Holyhead ...	29.58	48	NW	2	b	29.65	+13	46	43	-4	SSW	2	bcw	2	54	38	.	
	Parsonstown ...	29.62	43	Z	0	o	29.69	+07	45	42	0	Z	0	c	*	50	35	0.08	
	Valencia ...	29.68	44	NW	2	op	29.70	+00	46	44	-3	NW	2	cv	2	51	37	0.21	
	Roche's Point...	29.64	46	NW	4	p	29.66	+03	47	44	-1	NW	3	b	3	50	40	0.20	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.63	45	NW	3	c	29.66	+09	47	46	+4	SSW	2	bc	2	49	42	0.04	
	Scilly ...	29.70	50	W	4	c	29.65	+02	50	47	+1	WSW	3	c	5	52	44	0.02	
	Prawle Point ...	29.70	47	WSW	4	c	29.71	+07	49	47	+3	SW	3	bc p	2	50	42	0.13	
	Jersey (St. Aubin's)	29.78	51	WSW	4	bm	29.77	+14	52	48	+6	SSW	3	cm	3	54	45	.	
	Hurst Castle ...	29.68	51	WSW	4	bcv	29.74	+14	49	48	+3	SW	5	bc p	4	53	45	0.02	
	Dungeness ...	29.66	50	SW	6	bc	29.75	+21	50	49	+10	SW	5	bcq	4	51	40	0.20	
	London ...	29.66	47	SSW	3	cp	29.74	+17	51	46	+6	SW	2	c	*	58	40	.	
	Oxford ...	29.67	46	WSW	2	bc	29.72	+15	46	43	+3	S	2	c	*	54	40	0.04	
	Cambridge ...	29.63	52	SW	1	bc	29.72	+17	48	46	0	SW	1	c	*	56	36	0.05	
	Yarmouth ...	29.58	51	SW	4	c	29.71	+15	49	47	+4	SW	3	c	3	51	39	0.08	
GERMANY & HOLLAND.	Cuxhaven ...	29.64	44	NW	3	t	29.77	+24	45	44	+1	SW	4	bc	*	56	43	0.32	
	Berlin ...	29.76	55	S	3	b	29.93	+26	53	48	+2	W	5	bc	*	63	45	0.12	
	Wiesbaden ...	*	*	*	*	*	29.96	+20	50	46	0	Z	0	o	*	59	41	0.08	
	Munich ...	29.96	51	Z	0	o	30.04	+13	56	52	+5	SE	2	bc	*	59	48	0.04	
	The Helder ...	29.68	46	SW	2	b	29.77	+18	49	46	+4	SW	3	bc	3	50	45	.	
	Brussels (9 a.m.)	*	*	*	*	*	29.86	+23	50	46	+2	SSE	1	c	*	59	39	0.04	
	Cape Gris Nez	29.70	49	W	6	b	29.78	+25	49	47	+6	SW	5	bc	5	50	41	0.32	
	Paris ...	29.84	53	WSW	3	bc	29.88	+20	47	45	-4	S	1	o	*	60	40	0.04	
	Brest ...	29.83	54	NW	3	bc	29.81	+12	48	*	+2	W	2	c	2	54	45	.	
	Lorient ...	29.86	53	W	3	b	29.77	+08	50	47	+4	SSE	2	o	4	54	46	.	
FRANCE AND BELGIUM.	Rochefort ...	29.94	56	W	3	c	29.84	+09	51	50	-2	SE	4	o	*	63	41	0.16	
	Belfort ...	?	52	W	3	o	?	?	54	52	+6	N	3	o	*	58	43	.	
	Lyons ...	29.94	58	S	4	o	29.90	+06	58	51	+5	SSW	3	o	*	61	42	0.16	
	Nice ...	30.10	53	SW	2	bc	30.10	+04	53	47	+1	EHE	1	o	2	64	48	.	
	Perpignan ...	29.94	62	E	2	o	29.95	+06	57	56	-1	E	2	o	*	72	57	.	
	Biarritz ...	29.86	59	NE	3	c	29.78	-10	57	55	0	Z	0	o	*	64	45	.	
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.	
	Lisbon ...	29.92	59	SSW	5	o	29.80	-16	59	58	+1	S	5	r	*	66	57	0.08	

For Explanation of Columns, see bottom of p. 1.

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

Erratum, - The minimum temperature for York in the Report for May 18th should read "24", instead of "34".

WEATHER CHARTS

for 8 a.m. on Wednesday, 20th May, 1891.

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 bars and feathers refer to force thus—

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

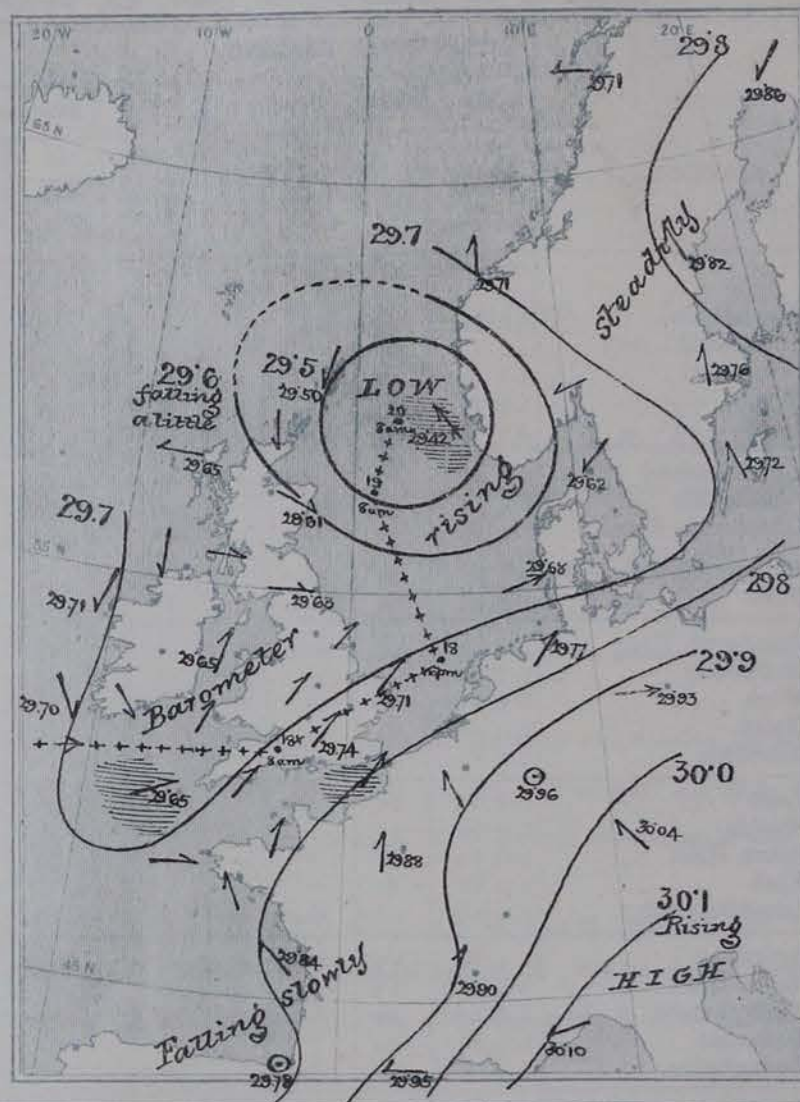
SEA DISTURBANCE—Where considerable, is shown thus:

☼ = Rough. ☼ = High.

MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.879
Stornoway	29.885
Wick	29.901
Nairn	29.908
Aberdeen	29.918
Leith	29.932
Shields	29.943
Spurn Head	29.956
York	29.962
Loughborough	29.973
Ardrossan	29.985
Mullaghmore	29.999
Donaghadee	29.947
Holyhead	29.956
Liverpool	29.961
Parsonstown	29.958
Valencia	29.963
Roche's Point	29.959
Pembroke	29.961
Scilly	29.974
Prawle Point	29.992
Jersey	29.989
Hurst Castle	29.982
Dover	29.970
LONDON	29.981
Oxford	29.981
Cambridge	29.976
Yarmouth	29.967



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 May.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.	at 8 a.m.	
			Dry.	Wet.	
Sumburgh Head	50.3	40.2	46.1	44.0	1.72
Stornoway	53.3	41.1	48.6	46.4	2.61
Wick	53.9	40.6	48.1	45.6	1.69
Nairn	56.3	42.2	48.6	45.4	1.61
Aberdeen	55.0	41.9	48.9	45.4	1.99
Leith	57.8	42.4	50.1	45.7	1.67
Shields	54.4	42.9	49.0	46.0	1.69
Spurn Head	54.3	45.1	49.3	47.2	1.57
York	59.6	42.2	49.8	46.7	1.85
Loughborough	61.7	42.6	51.1	47.7	2.09
Ardrossan	56.5	43.9	49.5	46.7	2.34
Mullaghmore	56.7	45.3	50.2	47.4	2.42
Donaghadee	56.0	44.2	49.6	47.5	2.26
Holyhead	56.2	46.2	50.5	48.0	1.90
Liverpool	58.0	45.0	50.8	46.9	1.84
Parsonstown	59.5	42.7	51.0	47.8	2.24
Valencia	58.1	46.3	52.8	49.7	3.20
Roche's Point	58.9	46.2	51.7	48.8	3.14
Pembroke	55.0	45.9	49.9	47.7	2.03
Scilly	50.3	48.2	52.7	50.3	1.73
Prawle Point	56.6	45.3	51.4	49.4	1.66
Jersey	59.4	47.2	53.6	50.5	1.87
Hurst Castle	54.6	45.7	51.6	49.9	1.78
Dover	57.0	46.7	52.5	49.3	1.79
LONDON	62.3	44.4	52.5	48.5	1.86
Oxford	60.6	43.4	50.6	47.5	1.95
Cambridge	62.0	42.0	51.7	48.5	1.90
Yarmouth	55.4	44.9	50.6	48.1	1.86

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 in: to 29.8 in: over France and Germany; 29.8 in: and more over the Gulf of Bothnia.
 Lowest, 29.5 in: and less, in a depression near Skudesnæs; below 29.7 in: over all the northern and western parts of our Islands.
 Gradients slight in most places.
 Barometer uneasy, rising in the west, falling in the south and east.

TEMPERATURE

Highest, 59° at Lisbon, 57° to 58° at the more southern of the French stations, 50° to 51° in the south of England.
 Lowest, 42° at Seaburgh Hd., 43° at Skudesnæs and the Scaur, 45 at Aberdeen and Barmouth.
 It has been down to between 35° and 38° at many of our stations during the night.

WIND

Variable from S. or SE over the greater part of France.
 SW over the Channel and greater part of England and Holland.
 N in Ireland, S to SE over Scandinavia.

WEATHER

Very changeable generally — showers are reported in many places, with bright intervals.
 A solar halo is visible at Jersey. Thunder occurred at some eastern and southern stations yesterday.

SEA

Rough in the far north, moderate in the west, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The distribution of pressure over our Islands and their neighbourhood is still complex, and the depression noticed over the North Sea yesterday has moved a little further to the northward, and a shallow secondary system lies over our coast and southwest coasts. The wind is very variable — mainly cyclonic. Temperature is low and uneasy.
 A continuation of cold showery weather is probable with variable winds.

FORECASTS

For the 24 hours ending at NOON on 21st May

1891.

DISTRICTS.

FORECASTS.

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

Varying winds, light to moderate; showery, cold.
 SW² to NW² winds, moderate to light; showery, bright intervals, cold.

DISTRICTS.

FORECASTS.

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

Same as Nos 0 to 2

NW² winds, light; cold, showery to fair.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND		WEA.	SEA		BAR.	THER.		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.43	51	43	SE	6	c	4		Holyhead ...	29.55	51	46	NW	3	c
Sumburgh Head ...	29.46	50	44	NE	2	bc	6		Valencia ...	29.72	45	44	N	3	m q p
Stornoway ...	29.59	49	46	NE	5	c	4		Scilly ...	29.70	52	48	N	4	bc
Aberdeen ...	29.45	49	42	NNW	6	bc	6		Jersey ...	29.76	51	44	WSW	4	bc
Shields ...	29.48	51	46	NW	4	cp	4		Dungeness ...	29.63	50	47	SW	4	bc
Ardrossan ...	29.50	54	50	SW	1	c	1		London ...	29.61	59	49	SW	2	c
Malin Head ...	29.55	46	43	N	4	o	3		Yarmouth ...	29.56	48	45	S	5	b
Mullaghmore ...	29.60	43	45	NW	4	cv	3		Rochefort ...	29.91	60	54	W	4	c
Belmullet ...	29.65	45	43	NNE	2	o	*								

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

Weather showery in the western and northern parts of the United Kingdom, but fine in the east and south, as well as over Scandinavia, Austria, Italy, and the Mediterranean. Dull over northern and central Russia and also in Algeria, rainy at several of the Danish, German, French and Spanish stations. Showers falling during day over the whole of western Europe, and thunder occurring at Spurn Head and Loughswilly.

Temperature highest 73° at Algiers, 69° at Palma, 67° at La Cella, 66° at Brindisi, and 65° at Barcelona and Tunis, above 60° over central Russia and the central and southern parts of the Mediterranean generally, but below 55° on its northern shores. Lowest 41° at Kuopio, Hangö and Aberdeen, 42° at Malin Hd. and 43° at Shields, Belmullet, Mullaghmore, Pembroke, and Oxford; below 50° in nearly all parts of northern, northwestern, and central Europe. Daily maxima a little above 55° over central England, but below that point in most other parts of the United Kingdom. Exceeding 60° at several of the French stations.

Wind moderates to fresh from the N.W. in the west and north of our Islands, and light from the same quarter in the southeast of England. S.W. over France, Spain, Germany and the Netherlands; SE. on the eastern shore of the North Sea, with a gale at Skudesnaes. Light from the N.E. in Lapland, from the W. over the Gulf of Finland, and from the S. in Russia. Variable over Austria, Italy, and Algeria. Strong breeze from the S.W. setting in later over the eastern part of the Channel.

Barometer highest 30.2 ins. and upwards, in an anticyclone lying over Sicily and the adjacent parts of the Mediterranean. Lowest (1) 29.4 ins. and less in a large depression lying over the North Sea; (2) 29.6 ins. and less, in another disturbance lying over Finland; (3) 29.8 ins. and less, in a shallow system lying over the south of Russia, near Kiev. Depression over North Sea filling up gradually 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.

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

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„ Weekly „ „ „ £1 10 0 „

DAILY WEATHER REPORT.

for Thursday, 21st May, 1891.
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

R. H. SCOTT, Secretary.																		
STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 5.)	SHADE TEMP.		Amount of Rainfall.	
	Reading at 32° F. and Sea Level.	Dry.	Direc.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...	29.86	39	Z	0	bc	29.73	-13	48	45	+2	NE	2	0	*	52	34	-
	Hernösand ...	29.73	41	ENE	2	f	29.60	-22	43	42	-2	E	2	f	*	48	36	0.32
	Stockholm ...	29.75	43	S	2	b	29.79	+03	51	46	+2	NSW	2	b	*	57	39	0.04
	Wisby ...	29.82	48	NSW	4	b	29.79	+07	51	46	-3	NSW	4	c	*	59	37	0.04
	Bodö ...	29.68	51	S	1	b	29.65	-06	52	46	+1	E	2	b	1	54	41	-
	Christiansund	29.53	51	SE	3	bc	29.60	-11	47	43	-3	NSW	1	b	1	55	45	-
	Skudesnaes ...	29.58	45	S	8	r	29.65	+23	46	44	+3	S	4	0	5	?	41	0.39
	Christiania Fjord (Færd)	29.66	46	SSW	3	c	29.73	+08	48	45	+4	SW	3	bc	3	48	41	-
	Skagen (The Scaw)	29.71	45	NSW	1	0	29.75	+13	47	45	+4	SW	1	0	0	54	39	0.04
	Fanö ...	29.74	45	SSW	1	c	29.66	-02	47	46	-1	SSW	1	0	*	52	43	0.28
BRITISH ISLANDS.	Sumburgh Head	29.53	43	NNE	1	r	29.56	+06	44	43	+2	NSW	1	r	3	48	40	0.17
	Stornoway ...	29.64	48	NE	4	c	29.69	+04	46	43	-1	NE	3	c	3	48	35	0.04
	Wick ...	29.60	47	N	4	0	29.65	+07	48	45	0	N	3	bc	3	54	35	-
	Nairn ...	29.61	48	Z	0	c	29.67	+06	45	43	-2	E	1	b	1	53	33	0.09
	Aberdeen ...	29.63	43	S	2	op	29.68	+07	46	43	+1	NE	2	c	2	51	36	0.12
	Leith ...	29.60	48	E	2	bc	29.63	+00	48	45	0	ENE	3	bc	*	54	35	-
	Shields ...	29.60	41	SSW	3	c	29.57	-06	45	44	-3	E	3	0	3	51	41	0.12
	Spurn Head ...	29.60	49	SE	4	bc	29.51	-16	48	46	+3	ESE	3	0	3	53	45	0.14
	York ...	29.60	52	NNE	1	c	29.53	-13	47	46	0	NNE	1	0	*	58	38	0.05
	Loughborough	29.62	52	SE	1	0	29.51	-18	47	46	-1	ESE	1	om	*	58	42	0.01
GERMANY & HOLLAND.	Ardrossan ...	29.59	51	N	1	b	29.61	-02	48	45	+2	ESE	4	b	2	53	39	-
	Malin Head ...	29.61	48	NSW	3	b	29.61	-05	48	45	+2	ESE	3	cmw	2	50	44	-
	Mullaghmore ...	29.63	49	NSW	4	bv	29.61	-07	48	45	+2	NE	4	bv	2	52	36	-
	Belmullet ...	29.67	48	NNE	2	b	29.63	-08	49	46	+2	NNE	2	bc	*	50	37	0.06
	Donaghadee ...	29.60	50	NE	3	b	29.59	-07	48	45	0	NE	3	b	1	53	47	-
	Liverpool (Bidston)	29.59	51	NW	1	c	29.52	-14	46	43	0	NE	1	om	1	55	41	0.14
	Holyhead ...	29.60	48	NNE	2	c	29.53	-12	44	43	-2	E	1	ogp	1	54	41	0.01
	Parsonstown ...	29.61	48	Z	0	bc	29.61	-08	47	44	+2	Z	0	bc	*	52	37	0.02
	Valencia ...	29.63	52	N	2	cq	29.59	-11	49	46	+3	NNE	2	bc	2	53	39	0.01
	Roche's Point...	29.62	49	N	2	c	29.57	-09	49	45	+2	NE	2	b	3	51	40	-
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.61	48	NSW	2	bc	29.51	-15	46	43	-1	N	2	cq	1	51	37	0.02
	Scilly ...	29.59	50	NSW	3	b	29.49	-16	50	46	0	NNE	4	bc	3	53	45	-
	Prawle Point ...	29.61	48	SSW	2	bc	29.46	-25	49	47	0	N	2	c	1	51	42	-
	Jersey (St. Aubin's)	29.63	50	ESE	1	gmr	29.42	-35	48	46	-4	N	4	om	3	56	45	0.69
	Hurst Castle ...	29.66	50	SSW	3	c	29.41	-33	46	45	-3	NE	4	c	3	55	44	0.16
	Dungeness ...	29.66	50	SW	3	c	29.39	-36	48	48	-2	NE	6	r	5	55	45	0.78
	London ...	29.65	52	SW	2	0	29.43	-31	45	43	-6	NSW	1	r	*	58	43	0.26
	Oxford ...	29.62	47	NSW	1	0	29.47	-25	46	43	0	NE	2	0	*	52	44	0.13
	Cambridge ...	29.66	47	N	1	0	29.47	-25	46	45	-2	N	1	r	*	58	43	0.20
	Yarmouth ...	29.66	50	SSW	4	c	29.46	-25	47	46	-2	ESE	5	og	5	53	45	0.29
PENINSULA.	Cuxhaven ...	29.81	56	N	1	c	29.66	-11	51	50	+6	SE	2	b	*	57	45	-
	Berlin ...	29.87	56	S	1	r	29.72	-21	59	56	+6	SE	3	c	*	64	50	0.08
	Wiesbaden ...	*	*	*	*	*	29.65	-31	57	55	+7	W	2	c	*	59	50	0.28
	Munich ...	29.88	58	SE	2	b	29.76	-28	61	54	+5	E	2	bc	*	68	48	-
	The Helder ...	29.73	51	ESE	1	c	29.47	-30	50	49	+1	ESE	2	r	3	55	48	0.16
	Brussels (9 a.m.)	*	*	*	*	*	29.43	-43	59	55	+9	SE	4	0	*	60	43	0.04
	Cape Gris Nez	29.66	51	Z	0	0	29.36	-42	50	50	+1	E	4	r	4	54	46	0.59
	Paris ...	29.67	53	NE	2	r	29.45	-43	56	54	+9	SE	3	r	*	?	47	0.08
	Brest ...	29.64	53	Z	0	0	29.53	-28	45	44	-3	N	1	m	2	55	43	0.08
	Lorient ...	29.57	49	NNE	2	r	29.43	-34	46	44	-4	NNE	2	0	2	52	45	0.79
FRANCE AND BELGIUM.	Rocheport ...	29.56	66	SSW	4	c	29.41	-43	57	56	+6	NSW	3	0	*	72	48	0.08
	Belfort ...	?	63	NSW	3	0	?	?	54	52	0	N	2	bc	*	70	52	-
	Lyons ...	29.78	63	SSW	4	r	29.58	-32	60	56	+2	S	5	c	*	70	58	-
	Nice ...	30.01	59	Z	0	0	29.88	-22	64	54	+1	NE	4	r	4	68	52	0.63
	Perpignan ...	29.78	58	E	3	0	29.62	-33	63	59	+6	NE	2	r	*	68	52	0.63
	Biarritz ...	29.56	57	S	3	0	29.53	-25	62	55	+5	SW	5	0	2	81	55	0.20
	Corunna ...	*	*	*	*	*	?	?	?	?	?	?	?	?	?	?	?	-
Lisbon ...	29.69	57	SW	5	b	29.78	-02	57	56	-2	SW	4	b	4	63	52	0.91	

For Explanation of Columns, see bottom of p. 4.

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

WEATHER CHARTS

for 8 a.m. on Thursday, 21st May, 1891.

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:

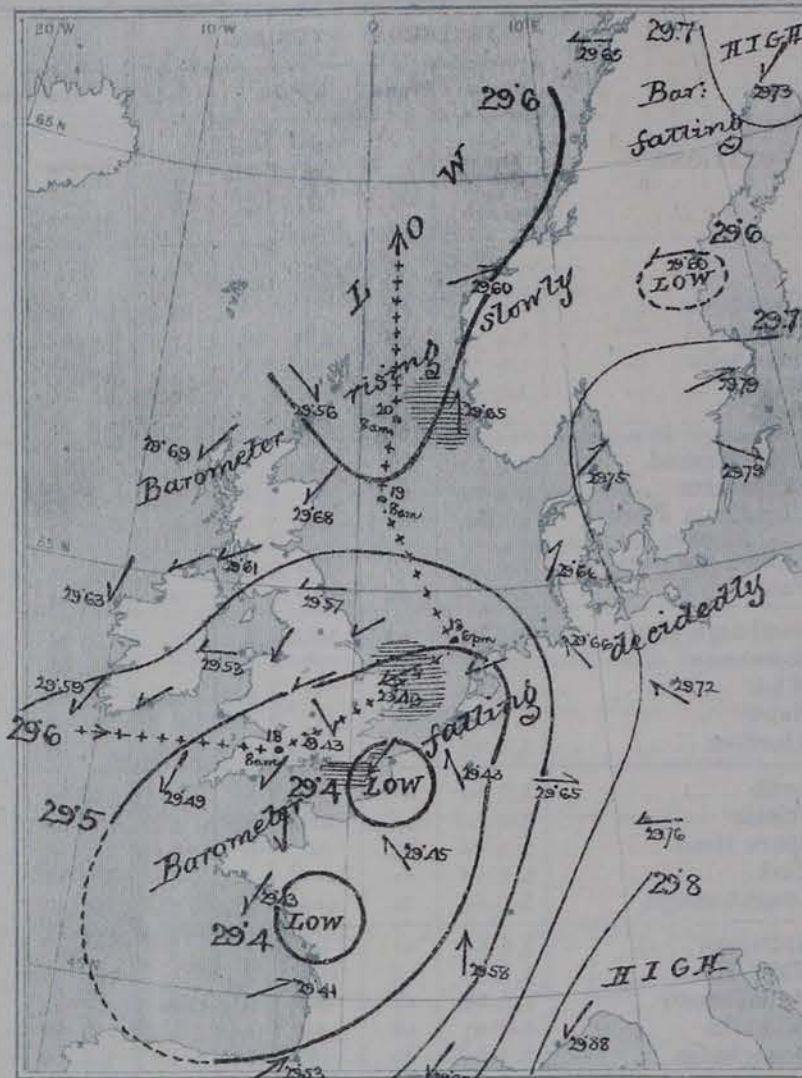
☼ = Rough. ☼ = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of May

During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.879
Stornoway	29.886
Wick	29.901
Nairn	29.908
Aberdeen	29.918
Leith	29.932
Shields	29.943
Spurn Head	29.956
York	29.962
Loughborough	29.973
Ardrossan	29.935
Mullaghmore	29.929
Donaghadee	29.947
Holyhead	29.956
Liverpool	29.961
Parsonstown	29.958
Valencia	29.963
Roche's Point	29.950
Pembroke	29.961
Scilly	29.974
Prawle Point	29.992
Jersey	29.989
Hurst Castle	29.982
Dover	29.970
LONDON	29.981
Oxford	29.981
Cambridge	29.976
Yarmouth	29.967



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 29.8 in: to 29.6 in: over the southeast of France and in Germany; 29.6 in: and more in Scotland and the northwest of Ireland.
 Lowest, 29.4 in: and less, over the Straits of Dover and west of France; 29.6 in: and less, off the coast of Norway.
 Gradients moderate to slight and very variable.

Barometer rising a little in the extreme northwest, falling unsteadily elsewhere.

TEMPERATURE

Highest, 62° to 63° in the southwest of France, 61° at Munich, 60° at Lyons, 59° at Berlin and Brussels, 56° at Paris.

Lowest, 43° at Hemsland, 44° at Pembroke, 45° at Shields and in London.

It is very low for the time of year all over our islands, and the past night has been ^{very} sharp both in Ireland and Scotland.

WIND

N¹ to NE¹ over the United Kingdom as a whole, and over Brittany, SW¹ in the southwest of France, S¹ in the east, SE¹ over Germany and the Netherlands. In the south of Sweden it is W¹, in the north E¹.

WEATHER

Fine and bright in Norway, Scotland and Ireland. Dull and gloomy over England and France, with rain in many places. The amount of rainfall over our southeastern counties and in the north of France has been large - viz 0.8 in: at Lynton (near Bittingtonner) Dungeness and Looe; 0.9 in: at Havre, and 0.6 in: at C. Fin. Niz. In the south of France also and at Linton there has been considerable rain.

SEA

Very little disturbed on our coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression recently noticed over the North Sea has continued to move northwards, and is now almost outside our area of observation, while the secondary systems which lay over the southwestern parts of our islands, and the Bay of Biscay last evening have moved eastwards in an independent system, to France. The SW wind has consequently disappeared from our islands, and while ^{fine} cold weather is reported in the north and west, dull cold weather is reported over England with steady rain in many places, mild wet weather over France.

FORECASTS

For the 24 hours ending at NOON on 22nd May 1891.

DISTRICTS.

FORECASTS.

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

N¹ breezes, light; showery to fair
 NE¹ breezes, light; fair as a whole.
 NE¹ breezes, moderate to light; rainy and cold, finer later.

DISTRICTS.

FORECASTS.

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

NE¹ and N¹ winds; fine generally.

N¹ winds, light; fine, dry, very cold tonight

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.

THER: WIND								THER: WIND							
	BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA
Skudesnaes ...	29.51	47	42	S	4	c	5	Holyhead ...	29.63	48	45	NHE	1	bc	2
Sumburgh Head	29.50	46	44	NE	1	o	4	Valencia ...	29.67	53	48	NHE	3	c	3
Stornoway ...	29.66	47	45	E	3	c	3	Scilly ...	29.64	53	49	W	3	b	4
Aberdeen ...	29.61	48	44	NHE	1	c	2	Jersey ...	29.71	55	50	ESE	3	o gm	3
Shields ...	29.63	47	43	SE	1	p	3	Dungeness ...	29.74	52	49	SW	4	bc	2
Ardrossan ...	29.61	53	49	SW	1	b	1	London ...	29.67	55	50	S	4	o	*
Malin Head ...	29.65	48	44	N	3	bc	2	Yarmouth ...	29.69	50	46	SW	4	r	4
Mullaghmore ...	29.66	51	45	NHE	4	bcy	3	Rochefort ...	30.08	69	63	SE	3	c	7
Belmullet ...	29.71	49	44	NHE	2	b	*								

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

Weather fair over the greater part of the United Kingdom, but showery at some of our western and southern stations. Dull in France and Spain, with rain at Cremona and Lisbon. Fine in most other parts of Europe. Showers falling later in nearly all parts of the United Kingdom, with a thunderstorm at Limerick. Heavy rain setting in over France and the extreme south of England at night.

Temperature highest 73° at La Caille, 71° at Algiers, 70° at Tunis, and 68° at Palma, above 60° at most of the Mediterranean and Adriatic stations, but below 55° in the Riviera. Lowest 42° at Sumburgh H., 43° at Uleaborg, Skudesnaes and the Scaw, and 44° at Hangö and Vaerö; below 50° in nearly all parts of northern and northwestern Europe. Daily maxima over our islands below 55° at all but the central and southern stations; thermometer exceeding 70° in some parts of France and reaching 81° at Biarritz.

Wind light or moderate from the N^W (NW to NE) in Ireland and Scotland, but S^W or SW^W over England, France, Spain, and the greater part of Central Europe, and SE in Scandinavia. Variables in Russia and Austria; light and variable in Spain and Algeria. No important change occurring during day.

Barometer highest 30.2 in. and upwards, in an anticyclone lying over the Black Sea and south of Russia. Lowest 29.5 in. and less, in a depression lying between the Scotch and Norwegian coasts, 29.7 in. and less in another disturbance lying off the northwest of Spain. Shallow depressions forming over our western coasts during day; disturbances off the Spanish coast moving eastwards to the Bay of Biscay and the west of 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.

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

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

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

DAILY WEATHER REPORT.

for *Friday, 22nd May, 1891.*
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
		Reading at 32° F. and Sea Level.	Dry.	Direc.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...	29.64	43	Z	0	0	29.72	- 0.1	43	41	- 5	SW	2	0	*	57	36	0.04	
	Hernösand ...	29.64	48	SSW	2	0	29.71	+ 1.1	46	43	+ 3	NE	2	0	*	63	39	0.08	
	Stockholm ...	29.77	48	Z	0	0	29.84	- 2.5	48	46	- 3	E	4	0	*	61	41	0.08	
	Wishby ...	29.71	49	SE	4	c	29.66	- 3.3	59	55	+ 8	SSW	4	0	*	39			
	Bodö ...	29.65	51	E	2	c	29.64	- 0.1	48	45	- 4	W	1	0	*	54	45		
	Christiansund	29.67	48	W	2	b	29.56	- 0.4	48	44	+ 1	EHE	4	0	5	54	43		
	Skudesnaes ...	29.63	46	NNW	4	bc	29.64	- 2.1	49	44	+ 3	N	2	0	2	49	41		
	Christiania Fjord (Færdø)	29.66	50	NNE	2	0	29.65	- 3.8	45	45	- 3	NNE	4	r	4	50	45	0.91	
	Skagen (The Scaw)	29.53	47	E	3	r	29.30	- 4.5	51	51	+ 4	S	1	m	2	54	46	0.63	
	Fanö ...	29.32	54	E	2	c	29.35	- 3.1	49	48	+ 2	SEW	6	0	#	57	46	0.28	
BRITISH ISLANDS.	Sumburgh Head	29.62	47	Z	0	bc	29.58	+ 0.2	45	44	+ 1	N	2	0	2	50	39		
	Stornoway ...	29.70	48	NE	4	c	29.66	- 0.3	45	45	- 1	N	3	r	3	50	38	0.03	
	Wick ...	29.63	47	N	2	b	29.63	- 0.2	48	45	0	Z	0	0	1	53	33		
	Nairn ...	29.64	49	Z	0	b	29.63	- 0.4	46	44	+ 1	Z	0	0	0	55	41		
	Aberdeen ...	29.65	46	EHE	3	b	29.62	- 0.6	48	43	+ 2	N	2	bc	2	50	40		
	Leith ...	29.62	48	NE	1	b	29.64	+ 0.1	52	46	+ 4	W	1	c	*	53	40		
	Shields ...	29.67	46	NE	3	c	29.60	+ 0.3	46	43	+ 1	NW	2	c	3	48	38		
	Spurn Head ...	29.48	42	NNE	6	r	29.58	+ 0.7	45	43	- 3	NNE	4	op	4	48	42	0.20	
	York ...	29.53	46	NE	1	r	29.61	+ 0.8	45	43	- 2	N	1	r	*	51	40	0.13	
	Loughborough	29.50	47	NNE	2	r	29.60	+ 0.9	42	42	- 5	N	2	rm	*	49	41	0.32	
GERMANY & HOLLAND.	Ardrossan ...	29.60	51	EHE	1	0	29.65	+ 0.4	49	46	+ 1	W	2	b	1	57	36		
	Malin Head ...	29.62	48	N	4	b	29.67	+ 0.6	48	45	0	NNW	3	b	2	52	44		
	Mullaghmore ...	29.61	52	NNE	6	c	29.70	+ 0.9	48	44	0	NNW	1	b	2	54	43	0.01	
	Belmullet ...	29.65	50	NNE	4	bc	29.72	+ 0.9	48	43	- 1	NE	1	0	*	51	41	0.03	
	Donaghadee ...	29.59	50	NE	3	c	29.68	+ 0.9	50	45	+ 2	NE	3	b	1	52	46	0.03	
	Liverpool (Bidston)	29.52	47	NE	2	0	29.64	+ 1.2	45	42	- 1	NNE	1	0	2	53	42	0.03	
	Holyhead ...	29.53	48	EHE	4	ogm	29.65	+ 1.2	46	44	+ 2	NNE	3	c	3	50	43	0.11	
	Parsonstown ...	29.61	47	Z	0	0	29.72	+ 1.1	45	43	- 2	Z	0	c	*	56	35	0.10	
	Valencia ...	29.63	52	N	3	bc	29.71	+ 1.2	48	46	- 1	Z	0	cm	1	54	41		
	Roche's Point...	29.56	52	NNE	2	bc	29.68	+ 1.1	50	47	+ 1	N	2	b	3	57	43		
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.49	51	N	2	c	29.62	+ 1.1	45	43	- 1	NE	2	op	1	52	42	0.12	
	Scilly ...	29.55	50	NW	4	c p	29.64	+ 1.5	50	48	0	NW	4	bc	3	52	46	0.16	
	Prawle Point ...	29.50	50	NNW	2	bc	29.62	+ 1.6	49	47	0	W	3	bcm	2	51	41		
	Jersey (St. Aubin's)	29.52	50	W	3	c	29.68	+ 2.6	51	47	+ 3	WSW	5	bc	4	51	46	0.02	
	Hurst Castle ...	29.47	49	NNE	3	om d	29.61	+ 2.0	48	46	+ 2	NNE	3	bm	2	53	44	0.18	
	Dungeness ...	29.41	52	N	3	r	29.58	+ 1.9	50	48	+ 2	W	5	c	4	52	46	0.07	
	London ...	29.45	48	NNE	2	gmp d	29.58	+ 1.5	46	45	+ 1	SW	1	0	*	50	44	0.06	
	Oxford ...	29.51	45	NE	1	r	29.59	+ 1.2	44	43	- 2	NNE	1	r	*	51	43	0.19	
	Cambridge ...	29.46	45	NE	2	T	29.57	+ 1.0	47	47	+ 1	N	1	0	*	49	43	0.11	
	Yarmouth ...	29.37	47	NNE	4	om g	29.53	+ 0.7	47	46	0	Z	0	c	4	48	44	0.31	
GERMANY & HOLLAND.	Cuxhaven ...	29.41	58	S	2	L	29.44	- 2.2	54	52	+ 3	SW	5	bc	*	70	51		
	Berlin ...	29.49	71	SE	3	c	29.58	- 1.4	64	59	+ 5	SW	3	b	*	81	57		
	Wiesbaden ...	*	*	*	*	*	29.63	- 0.2	57	54	0	SW	2	c	*	72	52	0.08	
	Munich ...	29.63	62	SW	2	b	29.63	- 1.3	57	54	- 4	Z	0	c	*	75	46	0.04	
	The Helder ...	29.34	54	SSW	2	f	29.52	+ 0.5	48	46	- 2	NNW	2	0	3	61	48	0.24	
	Brussels (9 a.m.)	*	*	*	*	*	29.62	+ 1.9	50	50	- 9	WSW	5	0	*	67	48	0.08	
	Cape Gris Nez	29.40	50	N	1	0	29.57	+ 2.1	48	45	- 2	W	5	c	5	57	45	0.63	
	Paris ...	29.49	62	SW	2	0	29.71	+ 2.6	50	47	- 6	WSW	3	b	*	71	47	0.16	
	Brest ...	29.65	53	NW	2	bc	29.69	+ 1.6	48	46	+ 3	NW	2	bc	2	55	43	0.16	
	Lorient ...	29.56	52	NNW	5	b	29.73	+ 3.0	48	45	+ 2	NNW	2	b	2	54	45		
FRANCE AND BELGIUM.	Rochefort ...	29.59	55	NNW	4	0	29.80	+ 3.9	51	48	- 6	W	3	bc	*	63	43		
	Belfort ...	?	61	W	3	0	?	?	52	51	- 2	W	3	0	*	68	48	0.91	
	Lyons ...	29.54	64	SSW	4	c	29.80	+ 2.2	53	49	- 7	S	3	bc	*	71	47	1.26	
	Nice ...	29.84	59	NE	2	0	29.76	- 1.2	57	57	+ 3	Z	0	f	3	64	54	0.12	
	Perpignan ...	29.63	64	W	5	r	29.88	+ 2.6	55	48	- 8	NW	2	0	*	77	51		
	Biarritz ...																		
	Corunna ...	*	*	*	*	*													
	Lisbon ...	29.82	57	SSW	5	0	29.64	- 1.4	55	52	- 2	WSW	5	bc	4	61	54	0.87	

For Explanation of Columns, see bottom of p. 4.

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

WEATHER CHARTS

for 8 a.m. on Friday, 22nd May, 1891.

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.

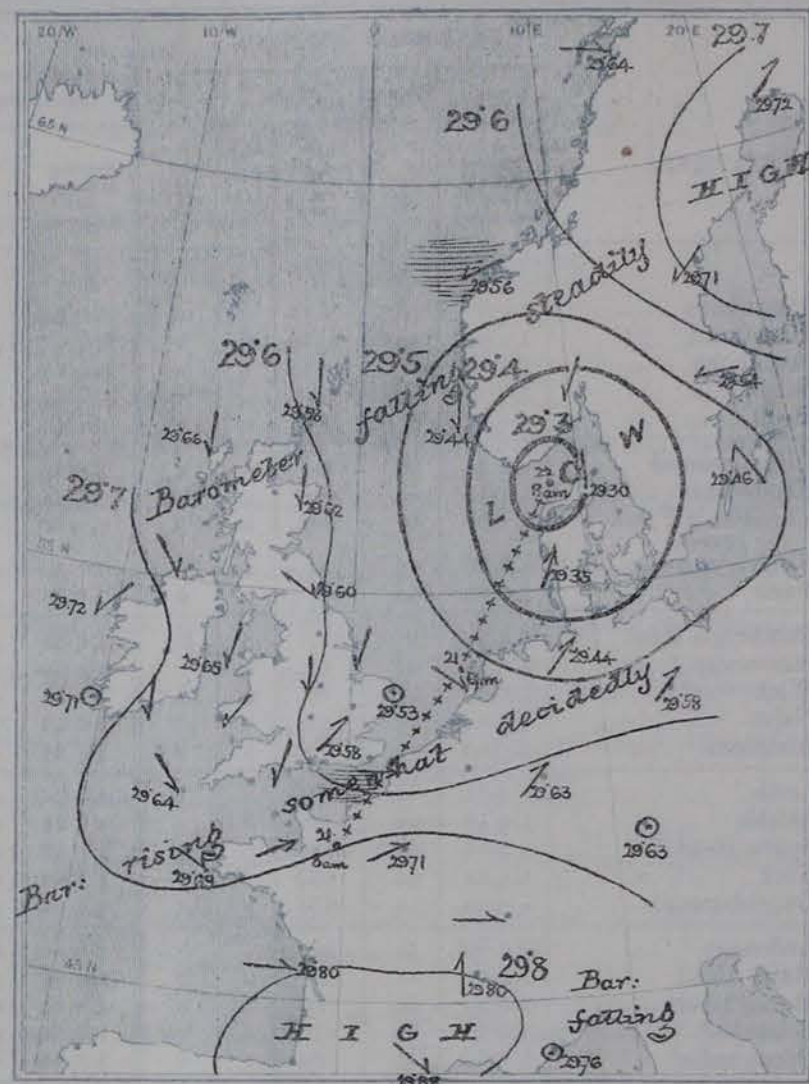
SEA DISTURBANCE—Where considerable, is shown thus:

▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.879
Stornoway	29.886
Wick	29.901
Nairn	29.908
Aberdeen	29.918
Leith	29.932
Shields	29.943
Spurn Head	29.950
York	29.962
Loughborough	29.973
Ardrossan	29.936
Mullaghmore	29.929
Donaghadee	29.947
Holyhead	29.956
Liverpool	29.961
Parsonstown	29.958
Valencia	29.903
Roche's Point	29.950
Penabroke	29.961
Scilly	29.974
Prawle Point	29.992
Jersey	29.989
Hurst Castle	29.982
Dover	29.970
LONDON	29.981
Oxford	29.981
Cambridge	29.976
Yarmouth	29.907



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.

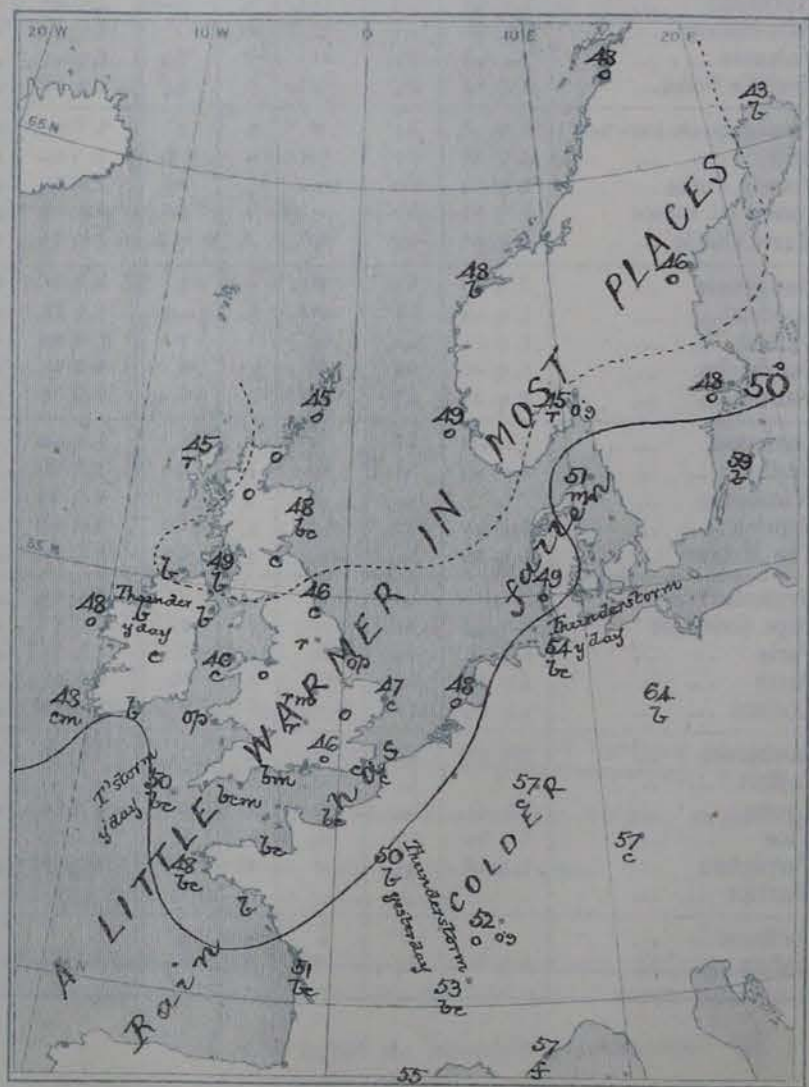
WEATHER is shown by Letters of the Beaufort Scale.

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 May.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	50.3	40.2	46.1	44.0	1.72
Stornoway	53.3	41.1	48.6	46.4	2.61
Wick	53.9	40.6	48.1	45.6	1.69
Nairn	56.3	42.2	48.6	45.4	1.61
Aberdeen	55.0	41.9	48.9	45.4	1.99
Leith	57.8	42.4	50.1	45.7	1.67
Shields	54.4	42.9	49.0	46.0	1.69
Spurn Head.....	54.3	45.1	49.3	47.2	1.57
York	59.6	42.2	49.8	46.7	1.85
Loughborough	61.7	42.6	51.1	47.7	2.09
Ardrossan	56.5	43.9	49.6	46.7	2.34
Mullaghmore	56.7	40.3	50.2	47.4	2.12
Donaghadee.....	56.0	44.2	49.6	47.5	2.26
Holyhead.....	56.2	46.2	50.5	48.0	1.90
Liverpool	58.0	45.0	50.8	46.9	1.84
Parsonstown	59.5	42.7	51.0	47.8	2.24
Valencia	58.1	46.3	52.8	49.7	3.20
Roche's Point	58.9	46.2	51.7	48.8	3.14
Penabroke.....	55.0	46.9	49.9	47.7	2.03
Scilly	56.3	48.2	52.7	50.3	1.73
Prawle Point	56.6	45.3	51.4	49.4	1.66
Jersey	59.4	47.2	53.6	50.5	1.87
Hurst Castle	58.6	45.7	51.6	49.9	1.78
Dover	57.0	46.7	52.5	49.3	1.79
LONDON	62.3	44.4	52.6	48.5	1.86
Oxford	60.6	43.4	50.6	47.5	1.95
Cambridge	62.0	42.0	51.7	48.6	1.90
Yarmouth	55.4	44.9	50.6	48.1	1.86

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, 29.8 in: and more, over the southwest of France and northeast of Spain; 29.7 in: and more, both in the west of Ireland and north of Sweden.
 Lowest, 29.3 in: and less, in a depression, over the Skagerrack, about 29.6 in: over the Bristol Channel and also over Portugal.
 Gradients are very variable — slight in most places, moderate over the eastern parts of the North Sea.
 Barometer rising over Ireland, England, and France, falling over Scandinavia, Scotland, and Portugal.

TEMPERATURE

Highest, 64° at Berlin, 59° at Nuremberg, 57° at Wiesbaden and Munich.
 Lowest, 43° at Haparanda, 45° at Lumburg, 46° at Tromsø, 47° at Spitzbergen, 48° at Luleå, 49° at Umeå, 50° at Uppsala, 51° at Stockholm, 52° at Copenhagen, 53° at London.
 It is below 50° over our Islands generally. The daily maxima yesterday ranged from 46° to 57° over our Islands, but were as high as 70° to 81° over Germany, 71° at Lyons.

WIND

Light N^W (NE to NW) over the greater part of our Islands, moderate W^W to SW^W over the Channel and north and west of France, S^W in Denmark, E^W to N^W over the southern half of Scandinavia.

WEATHER

Fine and bright over Ireland and several parts of France, cloudy and unsettled elsewhere with rain at times.
 Thunderstorms have occurred in several places — Mullaghmore, Sully, Tine, Loughaven, Lario and Lyons.
 The rainfall in the south of France and at Lisbon has been heavy.

SEA

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

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression which lay over France yesterday has now reached the Skagerrack and north of Denmark, while a shallow "V"-shaped secondary stretches from the North Sea across the southern part of England to the mouth of St. George's Channel. In the mean time a new disturbance has begun to advance over the Peninsula apparently from the Southwestward. The weather has improved over France and is fine and bright over Ireland, but is cold wet and unsettled over Great Britain and apparently over the North Sea, but no permanent improvement is likely at present.

* Newspaper Report

FORECASTS

For the 24 hours ending at NOON on 23rd May 1891.

DISTRICTS.

FORECASTS.

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

NW^W and N^W winds, light;
 changeable, rain at times.

Same as No 5

Same as No 0 to 2

W^W and NW^W winds, very unsettled,
 rain at times, some bright intervals, cold.

DISTRICTS.

FORECASTS.

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

Same as No 0 to 2

N^W to NE^W winds; cold, fair to rainy

N^W breezes, light; cold, fair at first
 unsettled later.

WARNINGS

NONE ISSUED.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.69	49	45	S	6	b	5		Holyhead ...	29.53	49	46	NE	4	o g m 3
Sumburgh Head ...	29.61	48	45	NE	1	bc	3		Valencia ...	29.63	53	48	NE	4	c 4
Stornoway ...	29.71	47	44	NE	3	c	3		Scilly ...	29.53	50	48	NW	4	c 3
Aberdeen ...	29.66	47	43	ENE	3	b	3		Jersey ...	29.44	44	47	NW	3	o 3
Shields ...	29.58	47	45	NNE	2	o	3		Dungeness ...	29.35	51	50	NNE	4	t 3
Ardrossan ...	29.60	56	50	ENE	3	c	2		London ...	29.42	49	48	NNE	2	g m d *
Malin Head ...	29.64	50	46	NNE	4	b	2		Yarmouth ...	29.39	48	47	NE	5	o 5
Mullaghmore ...	29.61	48	45	NNW	5	t	3		Rochefort ...	29.55	59	57	W	4	c *
Belmullet ...	29.65	51	46	NNE	5	c	*								

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

Weather fine and bright in Ireland, Scotland, and Norway, as well as over the greater part of Algeria and Eastern Europe. Cloudy or overcast elsewhere, with rain over France and the south-east of England, as well as at Rome and Genoa. Rainy weather extending later to the northern parts of England and Ireland, and thunderstorms occurring in various parts of Northern Europe. Heavy rain falling at many of the French stations and also at Lisbon.

Temperature highest 78° at Palermo, 75° at Algiers, 72° at Palma, 71° at Tunis, and 68° at Barcelona; above 60° at most of the Mediterranean stations and also in the extreme south of Russia. Lowest 41° at Archangel, Kuopio, and Helsingfors, 43° at Hernoand, and 44° at Hango and Holyhead, below 50° in nearly all parts of our Islands and northern Europe. Daily maxima a little below 50° in the east of England, thermometer exceeding 70° at several of the French and German stations, and reaching 81° at Berlin.

Wind light or moderate from the NE^w over the greater part of our Islands, but fresh or strong in force in the south-east of England. Moderate to strong from the SW^w over Spain and the western and central part of France; light from the SE^w over Germany and the Netherlands; S³ over Denmark, the Baltic and the south of Scandinavia. Light NW¹ in the south of Russia, W¹ in Italy; S³ in Algeria. No important change occurring over western Europe during day.

Barometer highest, 30.2 ins: and upwards, in an anticyclone lying over the south of Russia. Lowest, 29.35 ins: to 29.50 ins: in a complex depression with two minima lying over France, the Netherlands, and the south and east of England; 29.6 ins: and less, in a large shallow system lying off the west of Norway. Former disturbance subsequently travelling northwards, and barometer rising in most parts of our Islands 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.
The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark the observations are taken at 8 p.m. (Christiania time).

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

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

„ Weekly „ „ „ „ £1 10 0 „

DAILY WEATHER REPORT.

for *Saturday, 23rd May, 1891.*
 Issued by the Meteorological Office, 63, Victoria Street, London. *R. H. SCOTT, Secretary.*

STATIONS.	YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	Force. (0 to 12.)	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 3.)	SHADE TEMP.		Amount of Rainfall.	
	Reading at 32° F. and Sea Level.	Dry.	Direc.	Reading at 32° F. and Sea Level.			Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)	Max.			Min.			
SCANDINAVIA.																			
Haparanda ...	29.71	45	Z	0	r		29.60	- 12	46	45	+ 3	E	2	0	*	50	37	0.04	
Hernösand ...	29.54	47	NE	2	f		29.60	- 11	46	45	0	Z	0	0	*	50	37	0.24	
Stockholm ...	29.53	56	Z	0	C		29.53	- 01	46	45	- 2	ESE	4	5	*	66	39	-	
Wisby ...	29.55	54	S	4	b		29.47	+ 01	52	51	- 7	S	5	bc	*	70	46	0.04	
Bodö ...	29.59	51	ESE	1	0		29.59	- 05	48	44	0	E	2	0	1	51	45	-	
Christiansund	29.48	51	ENE	2	C		29.64	+ 08	48	45	0	N	2	0	2	65	45	0.08	
Skudesnaes ...	29.55	45	NW	6	C		29.62	+ 18	48	45	- 1	NW	6	C	2	52	45	-	
Christiania Fjord (Færder)	29.47	45	WSW	2	C		29.54	+ 19	46	43	+ 1	NNW	3	C	2	46	45	-	
Skagen (The Scaw)	29.40	49	SW	1	0		29.54	+ 24	49	47	- 2	NW	1	0	0	54	46	-	
Fanö ...	29.60	49	WNW	4	C		29.68	+ 33	49	46	0	N	4	C	*	50	43	-	
Sumburgh Head	29.61	45	Z	0	r		29.67	+ 09	48	47	+ 3	Z	0	bc	1	49	38	0.14	
Stornoway ...	29.66	47	Z	0	0		29.59	- 07	48	46	+ 3	S	2	bc	3	50	33	0.02	
Wick ...	29.65	50	NW	1	0		29.65	+ 02	49	46	+ 1	S	2	b	1	58	34	0.02	
Nairn ...	29.62	52	Z	0	C		29.61	- 02	50	47	+ 4	Z	0	b	1	57	39	0.01	
Aberdeen ...	29.68	44	SSE	2	CP		29.67	+ 05	46	44	- 2	SE	3	C	3	52	39	0.07	
Leith ...	29.65	51	NE	2	b		29.66	+ 02	51	46	- 1	NNE	1	om	*	55	42	-	
Shields ...	29.67	47	E	2	C		29.68	+ 08	46	43	0	N	1	m	3	51	35	-	
Spurn Head ...	29.67	45	NNE	2	0		29.71	+ 13	48	45	+ 3	WSW	1	bcm	3	48	44	0.08	
York ...	29.68	47	S	1	0		29.71	+ 10	48	45	+ 3	N	1	b	*	50	37	0.02	
Loughborough	29.68	45	NNE	2	r		29.75	+ 15	41	40	- 1	SE	1	cf	*	46	33	0.20	
BRITISH ISLANDS.																			
Ardrossan ...	29.65	55	Z	0	b		29.63	- 02	50	47	+ 1	SSE	2	b	1	57	37	-	
Malin Head ...	29.70	49	NW	2	b		29.56	- 11	46	42	- 2	S	4	0	1	51	40	-	
Mullaghmore ...	29.72	49	NW	4	bv		29.55	- 15	45	42	- 3	SSE	4	og	2	51	39	-	
Belmullet ...	29.73	50	WSW	2	b		29.45	- 27	45	44	- 3	SSE	4	q	*	51	47	0.27	
Donaghadee ...	29.67	51	S	2	b		29.64	- 04	49	47	- 1	SW	3	c	1	53	45	0.06	
Liverpool (Bidston)	29.71	48	WNW	1	0		29.72	+ 08	52	45	+ 7	SE	1	bc	2	54	42	-	
Holyhead ...	29.70	48	NW	1	bc		29.70	+ 06	50	47	+ 4	SSW	3	bcw	3	51	40	-	
Parsonstown ...	29.72	50	Z	0	C		29.63	- 09	43	42	- 2	Z	0	0	*	53	36	0.01	
Valencia ...	29.76	52	NNW	2	bcm		29.56	- 15	49	48	+ 1	SW	5	rm	5	55	40	0.26	
Roche's Point...	29.73	51	WNW	2	C		29.69	+ 01	50	47	0	SW	3	0	3	53	41	0.01	
Pembroke (St. Ann's Hd.)	29.70	50	N	2	b		29.75	+ 13	49	48	+ 4	S	3	bcw	2	54	41	-	
Scilly ...	29.72	49	NNW	4	C		29.78	+ 14	52	48	+ 2	WSW	3	bw	3	52	47	-	
Prawle Point ...	29.68	49	N	4	b		29.78	+ 16	49	47	0	SSE	1	bm	0	52	40	-	
Jersey (St. Aubin's)	29.73	53	SW	3	b		29.78	+ 10	57	50	+ 6	NE	1	bcm	1	57	42	-	
Hurst Castle ...	29.68	52	WSW	5	bm		29.77	+ 16	48	46	0	WNW	2	m	2	54	40	0.01	
Dungeness ...	29.67	50	WSW	5	bc		29.73	+ 15	52	50	+ 2	N	2	bc	1	55	46	-	
London ...	29.68	49	WSW	2	C		29.76	+ 18	49	45	+ 3	WSW	1	0	*	57	44	0.22	
Oxford ...	29.71	45	NNW	1	0		29.77	+ 18	43	42	- 1	NW	1	0	*	49	40	0.06	
Cambridge ...	29.67	50	N	1	C		29.76	+ 19	49	46	+ 2	NW	1	bc	*	55	42	0.08	
Yarmouth ...	29.62	48	N	1	C		29.72	+ 19	48	46	+ 1	WNW	3	ev	3	50	40	0.34	
GERMANY & HOLLAND.																			
Cuxhaven ...	29.62	52	NW	4	r		29.82	+ 24	55	52	- 9	N	4	bc	*	75	50	1.58	
Berlin ...	*	*	*	*	*		29.80	+ 17	48	46	- 9	Z	0	b	*	57	39	0.32	
Wiesbaden ...	*	*	*	*	*		29.86	+ 23	52	49	- 5	ESE	5	bc	*	63	39	0.08	
Munich ...	29.84	1.3	SW	4	0		29.73	+ 21	51	49	+ 3	SW	1	b	1	54	45	-	
The Helder ...	29.70	50	WSW	1	bc		29.73	+ 21	51	49	+ 3	SW	1	b	1	54	45	-	
FRANCE AND BELGIUM.																			
Brussels (9 a.m.)	*	*	*	*	*		29.76	+ 14	53	48	+ 3	N	1	C	*	59	41	-	
Cape Gris Nez	29.69	50	SW	3	b		29.73	+ 16	50	48	+ 2	SW	1	0	1	52	46	-	
Paris ...	29.77	58	SW	2	b		29.74	+ 03	52	49	+ 2	NNE	1	b	*	62	?	-	
Brest ...	29.75	58	SW	1	b		?	?	47	46	- 1	N	2	C	2	61	37	-	
Lorient ...	29.74	55	Z	0	0		29.77	+ 04	48	45	0	N	3	C	2	57	46	-	
Rochefort ...	29.65	62	ESE	3	0		29.60	- 20	52	50	+ 1	NNE	5	0	*	72	43	0.21	
Belfort ...	?	56	N	3	C		?	?	50	45	- 2	NNW	2	C	*	61	39	-	
Lyons ...	29.77	60	ESE	1	bc		29.70	- 10	53	49	0	E	1	r	*	67	47	-	
Nice ...	29.81	59	SW	1	bc		29.84	+ 08	55	53	- 2	NE	2	C	2	64	50	-	
Perpignan ...	29.73	63	E	2	C		29.60	- 28	59	56	+ 4	S	2	0	*	65	54	-	
Biarritz ...																			
PENINSULA.																			
Corunna ...	*	*	*	*	*														
Lisbon ...	29.88	55	WSW	4	C		30.13	+ 49	55	50	0	NW	4	bc	5	61	50	0.12	

WEATHER CHARTS

for 8 a.m. on Saturday, 23rd May, 1891.

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.

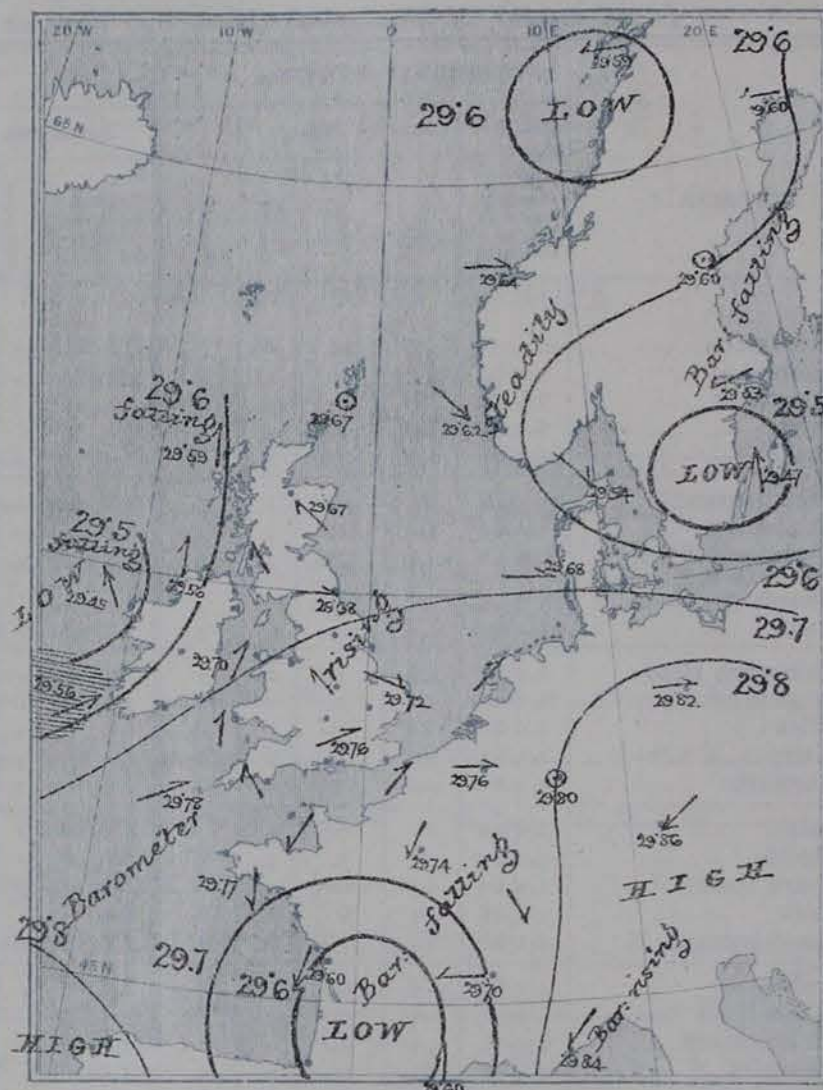
SEA DISTURBANCE—Where considerable, is shown thus:

▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.879
Stornoway	29.886
Wick	29.901
Nairn	29.908
Aberdeen	29.918
Leith	29.932
Shields	29.943
Spurn Head	29.956
York	29.962
Loughborough	29.973
Ardrossan	29.935
Mallaghmore	29.929
Donaghadee	29.947
Holyhead	29.956
Liverpool	29.961
Parsonstown	29.958
Valencia	29.963
Roche's Point	29.959
Pembroke	29.961
Scilly	29.974
Prawle Point	29.992
Jersey	29.989
Hurst Castle	29.982
Dover	29.970
LONDON	29.981
Oxford	29.981
Cambridge	29.976
Yarmouth	29.967



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.

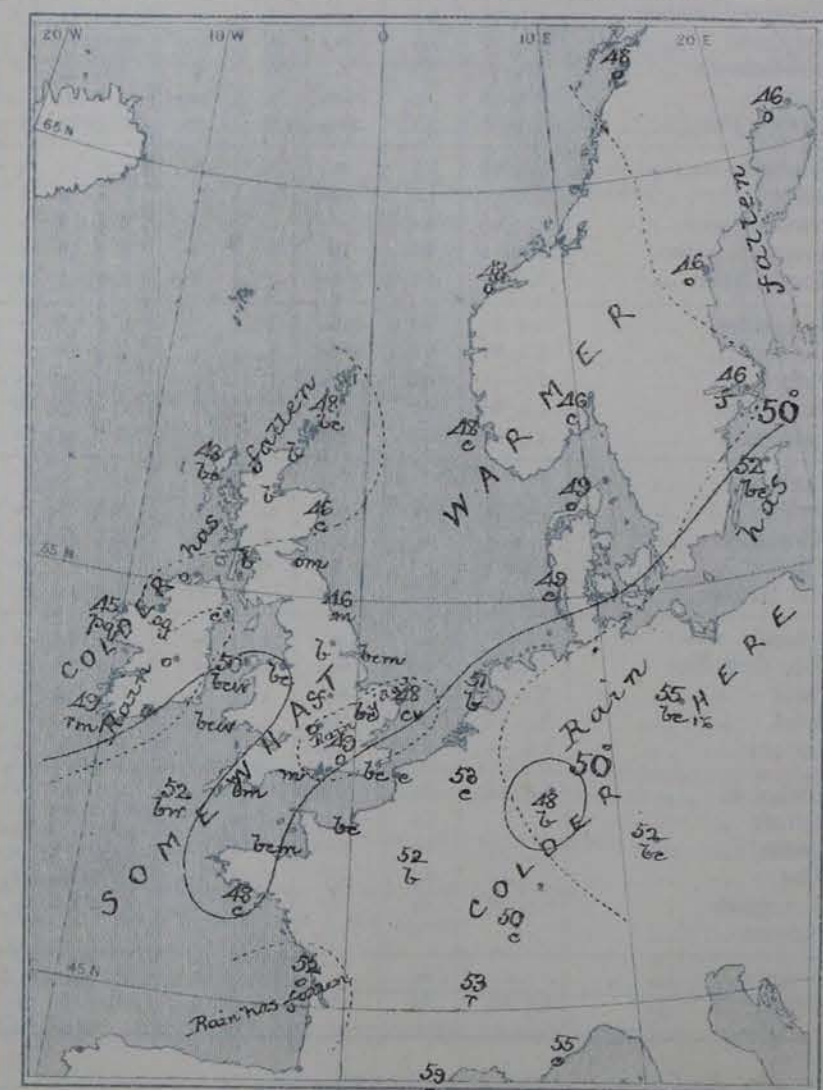
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of May.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	50.3	40.2	46.1	44.0	1.72
Stornoway	53.3	41.1	48.6	46.4	2.61
Wick	53.9	40.6	48.1	45.6	1.69
Nairn	56.3	42.2	48.6	45.4	1.61
Aberdeen	55.0	41.9	48.9	45.4	1.99
Leith	57.8	42.4	50.1	45.7	1.97
Shields	54.4	42.9	49.0	45.6	1.69
Spurn Head	54.3	45.1	49.3	47.2	1.57
York	59.6	42.2	49.8	46.7	1.85
Loughborough	61.7	42.6	51.1	47.7	2.09
Ardrossan	56.5	43.9	49.5	46.7	2.31
Mallaghmore	56.7	46.3	50.2	47.4	2.42
Donaghadee	56.0	44.2	49.6	47.5	2.26
Holyhead	56.2	46.2	50.5	48.0	1.90
Liverpool	58.0	45.0	50.8	46.9	1.84
Parsonstown	59.5	42.7	51.0	47.8	2.24
Valencia	58.1	46.3	52.8	49.7	3.20
Roche's Point	58.9	46.2	51.7	48.8	3.14
Pembroke	55.0	45.9	49.9	47.7	2.03
Scilly	56.3	48.2	52.7	50.3	1.73
Prawle Point	56.6	46.3	51.4	49.4	1.56
Jersey	59.4	47.2	53.6	50.5	1.87
Hurst Castle	58.6	45.7	51.6	49.9	1.78
Dover	57.0	46.7	52.5	49.3	1.79
LONDON	62.3	44.4	52.5	48.5	1.86
Oxford	60.6	43.4	50.6	47.5	1.95
Cambridge	62.0	42.0	51.7	48.5	1.90
Yarmouth	55.4	44.9	50.6	48.1	1.86

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

^{30 in. to 29.5 in. over the southern half of Spain}
 Highest, 29.8 in. and more over Germany, 29.7 in. and more over the greater part of England and the north of France.
 Lowest, 29.5 in. and less, in the extreme west of Ireland, as well as over the south of Sweden; 29.6 in. and less, over the southwest of France.
 Gradients moderate and increasing in Ireland, very slight and variable elsewhere.
 Barometer falling decidedly in Ireland, and the fall seems to be spreading eastwards and northwards.

TEMPERATURE

Highest, 59° at Liverpool, 57° at Jersey, 55° at London, Nice and Marseilles, 53° at Lyons, 52° at Dublin and Paris, 51° at Louth.
 Lowest, 41° at Loughmough, 43° at Oxford and Kew.
 There has been a sharp frost on the grass in many parts of England and the east of Scotland during the night.

WIND

Extremely light and variable over England, Holland, and the northern parts of France.
 S³ (SSE to SSE) on our western coast, and blowing a moderate gale at Belmullet.

WEATHER

Fair over England, Germany, and the north of France, very dull on our western coast, with rain at Belmullet and Valencia Island. The rain-fall yesterday was very heavy at Berlin, and considerable at some of the Continental stations and over our north-midland counties. At Valencia Is^l and Belmullet a quarter of an inch has fallen in the night. A Lunar halo was seen at Jersey last night.

SEA

Rough at Valencia Island, slight or smooth at all other stations.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depressions noticed yesterday are now found, one over the south of Sweden, the other over the southwest of France. In the mean time a new and rather large system has advanced to the west of Ireland with the result that S³ breezes have set in at our western stations and are increasing in force, while variable air and fair weather are reported from the stations over England and the east of Scotland. This depression will probably spread slowly to the eastward, bringing unsettled showery weather to England again.

FORECASTS

For the 24 hours ending at NOON on 24th May 1891.

DISTRICTS.

FORECASTS.

- | | | |
|---|------------------|---|
| 0 | SCOTLAND NORTH | S ³ winds, becoming strong; weather squally, showery, and unsettled. |
| 1 | SCOTLAND EAST | |
| 2 | ENGLAND N.E. | S ³ and SW ³ winds, increasing, with rain at times. |
| 3 | ENGLAND EAST | |
| 4 | MIDLAND COUNTIES | W ³ and SW ³ winds, light to fresh; fine and warm, rainy later. |
| 5 | ENGLAND SOUTH | |

DISTRICTS.

FORECASTS.

- | | | |
|----|---------------|--|
| 6 | SCOTLAND WEST | S ³ and SW ³ winds, strong; rainy. |
| 7 | ENGLAND N.W. | |
| 8 | ENGLAND S.W. | S ³ and SW ³ winds, light to fresh; fine to squally and showery. |
| 9 | IRELAND NORTH | |
| 10 | IRELAND SOUTH | Same as N ^{os} 6 and 7. |

WARNINGS

NONE ISSUED AT PRESENT.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER:		WIND		WEA.	SEA		BAR.	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.52	52	46	NW	6	b	3	Holyhead ...	29.70	51	45	NW	1	c	2
Sumburgh Head ...	29.59	47	45	Z.	0	0	1	Valencia ...	29.75	54	49	N	2	bcm	2
Stornoway ...	29.66	48	45	NE	3	C	3	Scilly ...	29.69	51	48	NW	4	0	3
Aberdeen ...	29.65	48	45	SE	2	C	3	Jersey ...	29.73	55	49	WSW	4	b	3
Shields ...	29.65	49	46	NE	3	C	3	Dungeness ...	29.65	54	50	WSW	6	bc	4
Ardrossan ...	29.65	50	48	W	2	T	1	London ...	29.65	55	48	WSE	3	o p	4
Mulin Head ...	29.68	51	45	NW	2	b	1	Yarmouth ...	29.61	50	44	SE	3	c p	4
Mullaghmore ...	29.72	50	45	WNW	2	bv	2	Rochefort ...	29.77	65	5	S	2	b	2
Belmullet ...	29.74	50	49	WNW	1	bc	*								

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

Weather fine and bright in Ireland and the extreme south of England, as well as in several parts of France, Italy and eastern Europe. Cloudy elsewhere, with rain over Central England, at Helsingfors, Røder, Røhorn and Cronna. Fog reported at several of the Mediterranean stations. Showers falling later in many parts of the United Kingdom; thunderstorms occurring in the south of Ireland and the south-east of England.

Temperatures highest 70° at Fez and Algiers, 68° at Naples, Brindisi, and Palermo, and 67° at Oran and Lafora; about 60° at most of the Mediterranean and Adriatic stations, as well as over Austria, eastern Germany, and the south of Russia. Lowest 42° at Archangel and Loughborough, 43° at Haparanda, and 44° at Hangö and Oxford; below 50° over the greater part of northern and northwestern Europe. Daily maxima below 50° over Central England, but a little above 55° at some of our extreme northern and southern stations. Exceeding 60° in most parts of France and Germany, and reaching 75° at Berlin.

Wind light from the Nth (NW to NE) over the greater part of the United Kingdom and from the Wth in France. Moderate to strong from the SWth over Denmark and western Germany, light from the Sth over Russia and eastern Germany; Eth in Scandinavia. Light or moderate from the SWth in Spain, and from the SEth in Italy and Algeria. Subsequently falling light and variable on the east coast of Great Britain; shifting to the Eth in the west of France.

Barometer highest 30.2 in. and upwards, in an anticyclone lying over Central and southern Russia. Lowest 29.3 in. and less, in a small depression lying over the north of Denmark, 29.6 in. and less, in another system over the north-west of Spain. Both disturbances moving north-eastwards, later, the former to the south of Sweden, the latter to the south-west of France. Barometer rising slowly over the United Kingdom.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

* AN ASTERISK is inserted in all places for which information is not usually received. The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark the observations are taken at 8 p.m. (Christiania time).

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

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

.. Weekly £1 10 0 ..

DAILY WEATHER REPORT.

for Sunday 24th May 1891.
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.			
		Reading at 32° F. and Sea Level.	Dry.	Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.	Haparanda ...	29.51	48	NNE	2	0	29.32	- .28	39	39	- 7	SSW	6	r	*	50	?	0.16	
	Hernösand ...	29.41	48	NE	2	r	29.68	+ .08	46	44	0	SW	4	c	*	61	43	0.55	
	Stockholm ...	29.66	51	SW	2	c	29.88	+ .35	53	47	+ 7	SSW	2	b	*	59	37	0.63	
	Wisby ...	29.76	48	SSW	4	b	29.85	+ .41	51	48	- 1	W	4	b	*	59	45	0.39	
	Bodö ...	29.64	44	WNW	1	0	29.55	- .04	44	43	- 4	WNW	2	0	1	48	41	0.08	
	Christiansund	29.69	49	NNW	2	bc	29.78	+ .14	44	41	- 4	W	3	c	2	54	45	-	
	Skudesnaes ...	29.68	46	NNW	6	c	29.82	+ .20	46	43	- 2	NNW	4	0	2	50	45	-	
	Christiania Fjord (Færd)	29.68	48	SW	5	c	29.78	+ .24	47	46	+ 1	SSW	5	0	4	52	46	-	
	Skagen (The Scaw)	29.73	45	W	4	b	29.84	+ .30	48	45	+ 1	SW	1	b	1	54	41	-	
	Fanö ...	29.80	45	Z	0	b	29.79	+ .11	49	47	0	ENE	4	c	*	50	43	-	
BRITISH ISLANDS.	Sumburgh Head	29.77	47	Z	0	c	29.89	+ .22	46	43	- 2	Z	0	0	0	51	40	0.02	
	Stornoway ...	29.66	51	E	3	b	29.90	+ .31	48	47	0	E	4	b	4	53	42	-	
	Wick ...	29.73	55	E	3	bc	29.92	+ .27	49	48	0	N	2	bc	1	53	33	-	
	Nairn ...	29.67	50	NNE	1	0	29.88	+ .27	48	45	- 2	E	1	b	0	55	31	0.08	
	Aberdeen ...	29.75	48	ESE	2	b	29.90	+ .23	50	46	+ 4	ENE	3	bc	3	58	39	-	
	Leith ...	29.69	51	SE	1	r	29.86	+ .20	51	46	0	E	2	bc	*	58	42	-	
	Shields ...	29.69	48	E	2	c	29.79	+ .11	47	45	+ 1	NE	3	c	3	50	42	-	
	Spurn Head ...	29.69	48	ESE	4	c	29.73	+ .02	47	45	- 1	ENE	4	0	4	52	45	-	
	York ...	29.68	52	NE	1	c	29.74	+ .03	50	46	+ 2	E	2	bc	*	59	52	-	
	Loughborough	29.68	50	SSE	2	c	29.68	- .07	46	45	+ 5	E	3	ogm	*	59	41	0.01	
GERMANY & HOLLAND.	Ardrossan ...	29.64	52	SSE	3	c	29.80	+ .19	50	47	0	ENE	5	c	2	55	41	0.14	
	Malin Head ...	29.50	48	SSE	1	0	29.78	+ .22	47	44	+ 1	ESE	5	b	2	50	42	-	
	Mullaghmore ...	29.44	47	ESE	4	0	29.75	+ .20	49	45	+ 4	ENE	5	m	3	49	44	0.03	
	Belmullet ...	29.42	51	NNW	2	c	29.76	+ .31	51	48	+ 6	NNE	5	b	*	52	44	0.09	
	Donaghadee ...	29.59	49	SSW	3	c	29.76	+ .12	47	45	- 2	ESE	6	0	5	53	45	0.01	
	Liverpool (Bidston)	29.67	48	SE	2	0	29.68	- .04	46	44	- 6	ENE	4	0	3	60	46	0.05	
	Holyhead ...	29.61	41	S	4	0	29.65	- .05	50	47	0	E	4	cmg	4	53	46	0.01	
	Parsonstown ...	29.46	48	Z	0	0	29.64	+ .01	49	46	+ 6	Z	0	0	*	50	43	0.38	
	Valencia ...	29.54	52	NNW	4	bc	29.61	+ .05	50	48	+ 1	N	1	0	2	55	42	0.50	
	Roche's Point...	29.46	53	WNW	4	b	29.56	- .13	47	45	- 3	NNE	3	2	3	50	45	0.45	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.54	46	SE	6	r	29.54	- .21	49	48	0	SE	1	of	4	50	42	0.33	
	Scilly ...	29.59	49	SSW	6	r	29.58	- .20	50	48	- 2	W	4	b	5	55	48	0.18	
	Prawle Point ...	29.69	49	SSW	3	bc	29.58	- .20	49	48	0	W	4	bc	3	53	45	0.20	
	Jersey (St. Aubin's)	29.77	53	W	3	0	29.62	- .16	50	49	- 5	SW	5	bc	4	57	48	0.32	
	Hurst Castle ...	29.73	51	WSW	4	m	29.55	- .22	48	48	0	ESE	3	om	2	55	44	0.31	
	Dungeness ...	29.71	52	W	3	b	29.65	- .08	48	40	- 4	SSW	5	r	4	56	46	0.10	
	London ...	29.70	56	Z	0	cmg	29.64	- .12	46	45	- 3	E	1	or	*	61	44	0.02	
	Oxford ...	29.69	50	SSW	1	0	29.64	- .13	46	45	+ 3	E	2	r	*	59	43	0.06	
	Cambridge ...	29.71	55	S	1	0	29.67	- .09	53	50	+ 4	E	1	0	*	60	42	-	
	Yarmouth ...	29.74	50	ESE	2	b	29.71	- .01	48	47	0	ESE	3	0	3	52	45	0.02	
PENINSULA.	Cuxhaven ...	29.82	53	NE	2	b	29.80	- .02	54	52	0	ENE	2	b	*	60	52	-	
	Berlin ...	29.83	60	ESE	3	b	29.73	- .09	55	53	0	NE	3	c	*	68	52	0.12	
	Wiesbaden ...	*	*	*	*	*	29.71	- .09	55	51	+ 7	NE	1	bc	*	64	46	-	
	Munich ...	*	*	*	*	*	29.68	- .05	49	49	- 2	NNE	2	r	3	54	48	0.12	
	The Helder ...	29.79	50	NNW	1	bc	29.68	- .05	49	49	- 2	NNE	2	r	3	54	48	0.12	
	Brussels (9 a.m.)	*	*	*	*	*	29.73	- .03	45	45	- 8	WNW	1	r	*	65	44	0.28	
	Cape Gris Nez	29.72	55	W	1	bc	29.66	- .07	48	46	- 2	S	4	0	2	57	46	-	
	Paris ...	29.71	60	N	4	0	29.76	+ .02	61	48	- 1	S	4	0	*	62	48	0.08	
	Brest ...	29.82	52	W	4	0	29.69	?	50	47	+ 3	WNW	2	c	4	59	46	0.12	
	Lorient ...	29.83	52	W	4	0	29.66	- .11	50	48	+ 2	WSW	3	r	4	55	48	0.20	
PENINSULA.	Rochefort ...	29.89	54	WNW	6	c	29.83	+ .23	55	54	+ 3	WSW	6	0	*	59	43	0.32	
	Belfort ...	?	57	?	3	c	?	?	52	50	+ 2	W	5	c	*	60	48	-	
	Lyons ...	29.73	53	WSW	1	r	29.94	+ .24	51	47	- 2	NNE	1	0	*	62	49	0.08	
	Nice ...	29.74	54	SW	2	c	29.82	- .02	55	51	0	W	1	b	3	61	45	0.63	
	Perpignan ...	29.82	57	NNW	3	0	30.00	+ .40	59	50	0	SW	2	b	*	61	49	0.16	
	Biarritz ...	30.01	50	NNW	6	c	29.99	- .02	55	48	0	S	4	0	2	59	46	0.24	
	Corunna ...	*	*	*	*	*	29.96	- .01	57	55	0	SW	4	0	3	59	52	-	
	Lisbon ...	30.22	55	NNW	3	b	30.21	+ .08	56	52	+ 1	WNW	5	bc	2	63	52	-	

For Explanation of Columns, see bottom of p. 4.

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

WEATHER CHARTS

for 8 a.m. on Sunday, 24 May, 1891.

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:

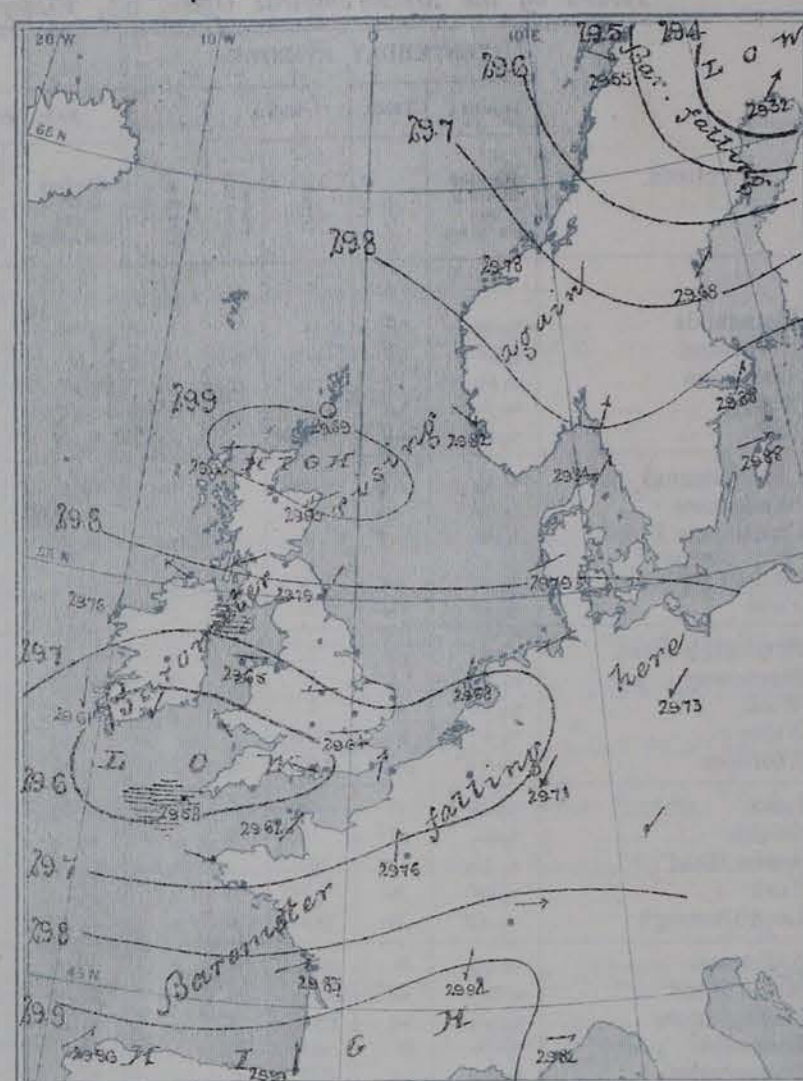
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of May

During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.879
Stornoway	29.886
Wick	29.901
Nairn	29.908
Aberdeen	29.918
Leith	29.932
Shields	29.943
Spurn Head	29.956
York	29.962
Loughborough	29.973
Ardrossan	29.935
Mullaghmore	29.929
Donaghadee	29.947
Holyhead	29.958
Liverpool	29.961
Parsonstown	29.958
Valencia	29.963
Roche's Point	29.959
Pembroke	29.961
Scilly	29.974
Prawle Point	29.992
Jersey	29.989
Hurst Castle	29.982
Dover	29.970
LONDON	29.981
Oxford	29.981
Cambridge	29.976
Yarmouth	29.967



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 May.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	50.3	40.2	46.1	44.0	1.72
Stornoway	53.3	41.1	48.6	46.4	2.61
Wick.....	53.9	40.6	48.1	45.6	1.69
Nairn.....	56.3	42.2	48.0	45.4	1.61
Aberdeen.....	55.0	41.9	48.9	45.4	1.99
Leith.....	57.8	42.4	50.1	46.7	1.67
Shields.....	54.4	42.9	49.0	46.0	1.69
Spurn Head.....	54.3	45.1	49.3	47.2	1.57
York.....	59.6	42.2	49.8	46.7	1.85
Loughborough.....	61.7	42.6	51.1	47.7	2.09
Ardrossan.....	56.5	43.9	49.5	46.7	2.34
Mullaghmore.....	56.7	46.3	50.2	47.4	2.42
Donaghadee.....	56.0	44.2	49.6	47.5	2.26
Holyhead.....	56.2	46.2	50.5	48.0	1.90
Liverpool.....	58.0	45.0	50.8	46.9	1.84
Parsonstown.....	59.5	42.7	51.0	47.8	2.24
Valencia.....	58.1	46.3	52.8	49.7	3.20
Roche's Point.....	58.9	46.2	51.7	48.8	3.14
Pembroke.....	55.0	45.9	49.9	47.7	2.03
Scilly.....	56.3	48.2	52.7	50.3	1.73
Prawle Point.....	56.6	45.3	51.4	49.4	1.56
Jersey.....	59.4	47.2	53.6	50.5	1.87
Hurst Castle.....	54.6	45.7	51.6	49.0	1.78
Dover.....	57.0	46.7	52.5	49.3	1.79
LONDON.....	62.3	44.4	52.5	48.5	1.86
Oxford.....	60.6	43.4	50.6	47.5	1.95
Cambridge.....	62.0	42.0	51.7	48.5	1.90
Yarmouth.....	55.4	44.9	50.6	48.1	1.86

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. to 29.9 in. over the Iberian Peninsula and southwest of France; 29.9 in. and more over the north of Scotland.
 Lowest, 29.4 in. and less, in a depression over Lapland; 29.6 in. in another over our southern district, and 29.7 in. and less, over Holland.
 Gradient moderate for W. winds over France and Channel, for E. winds over our Islands and for N. winds over Scandinavia.
 Barometer rising in Scotland and Ireland, falling over England and France.

TEMPERATURE

Highest, 59° at Perpignan, 57° at Fougères, 55° at the German stations, 52° at Jersey; 55° at Stockholm and Copenhagen, 43° to 51° on our northeast coast.
 Lowest, 35° at Haparanda, 44° at Rostock and Christiansund, 46° at Rudesdal, Lumburg H., Loughborough, and in London.
 It rose during yesterday, to between 55° and 61° over the greater part of England, and to between 50° and 55° at our western and northern stations.

WIND

Varies greatly, — W. to SW. over Scandinavia.
 E. over the greater part of our Islands.
 W. over the Bay of Biscay, and western part of Channel — S. in northeast of France.
 It is rather strong on our northwestern coasts, moderate generally elsewhere.

WEATHER

Fine and bright over Scotland and the northern part of England and Ireland. Cloudy, or overcast elsewhere. Rainy over midland and southern counties, the southeast of Ireland and many parts of France.
 Rainfall has been considerable at the Irish stations and Rouen. On our northeast coast weather has been dry.

SEA

Moderate or rather rough on our northwestern, western, and southeastern coasts, slight to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 25th May. 1891.

DISTRICTS.

FORECASTS.

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

None issued

DISTRICTS.

FORECASTS.

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

None issued

WARNINGS

None issued

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND						THER:		WIND					
		D.	W.	D.	F.	WEA.	SEA			BAR:	D.	W.	D.	F.	WEA.	SEA	
Skudesnaes ...	29.67	51	47	NW	7	c	3	Holyhead ...	...	29.66	51	46	SSW	4	cy	4	
Sumburgh Head	29.72	48	45	L	0	bc	1	Valencia ...	...	29.52	53	51	NNW	5	bcp	4	
Stornoway ...	29.64	53	48	SE	3	b	3	Scilly ...	...	29.69	52	47	SSW	5	od	4	
Aberdeen ...	29.69	50	46	SE	4	b	4	Jersey ...	...	29.78	55	50	NNW	3	b	3	
Shields ...	29.68	48	46	ESE	2	cm	3	Dungeness ...	...	29.72	50	52	W	1	b	0	
Ardrossan ...	29.62	55	52	SSE	3	p	2	London ...	...	29.72	58	50	SW	1	c	*	
Malin Head ...	29.50	48	45	S	4	op	1	Yarmouth ...	...	29.73	52	49	SE	2	bcp	3	
Mullaghmore ...	29.45	46	42	SE	5	cy	4	Rocheport ...	...	29.78	57	53	NW	5	o	?	
Belmullet ...	29.40	51	48	NNW	2	c	*										

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

Weather fair over Great Britain and the north of France, as well as over Russia, the Baltic, Western Germany, and the greater part of southern Europe. Dull in Ireland, with rain in the west; cloudy and unsettled also in Scandinavia, Eastern Germany, Austria and the southern part of France. Raining weather extending later over all the more western and southern parts of the United Kingdom; thunderstorms and heavy rain occurring in the south of France.

Temperature highest 71° at La Caille, 70° at Brindisi and Algiers, and 67° at Riga and Spas; above 60° at nearly all the Mediterranean and Adriatic stations, as well as over the greater part of Russia. Lowest 41° at Loughborough, 43° at Oxford and Parnassus, and 45° at Hanz, Mullaghmore, Belmullet and Münster, below 50° in nearly all parts of northern Europe. Rising during day to between 55° and 60° in many parts of Great Britain, but remaining below 55° in Ireland. Exceeding 70° over southern and eastern Europe, and reaching 80° or more in Tunis and Eastern Algeria.

Wind S in the west and north of our Islands; strong in force in the west of Ireland. Light from the West on our East coast and moderate from the same quarter or from SW. over the Netherlands, Denmark, Germany and the Baltic. Moderate to strong from W. or NW. in Spain, light from SE in the south of France, and from NE in the north of that country. Variable in Austria, Italy, and Algeria. Subsequently veering to the NWnd in the south of Ireland, but shifting to the End or SEnd over Great Britain.

Barometer highest, 30.2 in. and upwards in a large anticyclone lying over the south of Russia; 30.1 in. and more in another system lying to the southward of the Spanish Peninsula. Lowest 29.5 in. and less in a depression lying off the west of Ireland, and also in another disturbance lying over the Baltic; 29.6 in. and less in a third system lying over the southern parts of France. Shallow secondary disturbances appearing later near the mouth of St. George's Channel, and spreading eastwards.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 17th to the 23rd May 1891.

During the whole of this week the weather over the United Kingdom has been, not only showery and unsettled, with thunder and lightning at times; but unusually cold for the time of year, especially during the earlier hours of three first days. On the morning of Sunday the frost was very sharp over all the northern, northeastern, and eastern parts of Great Britain and in the course of the succeeding day the thermometer reached a maximum of 50° over only the southwestern and southern districts. Monday also brought frost to many parts both of Ireland and England, and in York the frost was very destructive the thermometer going down to 24° in the shade and 21° on the grass. Tuesday also was frosty in several districts, and the remainder of the week, though less frosty, was cold, raw and inclement, until Saturday, which was milder. Rainfall has been considerable and in many districts has been of daily occurrence.

The principal depressions observed were

1. A complex system which moved east-northeastwards over our southern counties on Monday, and then northeastward and northward over the North Sea—not disappearing altogether till Thursday.
2. A complex system observed over France on Thursday, after which it became more simple and travelled northeastwards to the Skager Rack and Sweden.
3. A well marked system which reached the northwest of Ireland on Saturday morning, but soon filled up, whilst a new one was being formed over the south-east of Ireland.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

* AN ASTERISK is inserted in all places for which information is not usually received. The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark the observations are taken at 8 p.m. (Christiania time).

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 *Monday, 25th May, 1891.*
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										FAST 24 HOURS.		
	BAROM. Reading at 32° F. and Sea Level.	TEMP. Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea. (0 to 12.)	SHADE TEMP.		Amount of Rainfall.		
			Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)		Weather.	Max.		Min.	
SCANDINAVIA.	Haparanda ...	29.69	39	NSW	2	0	29.92	+ .60	48	44	+ 9	NE	2	c	*	48	36	0.20
	Hernösand ...	29.91	50	S	2	b	30.01	+ .33	50	46	+ 4	S	2	b	*	66	43	-
	Stockholm ...	29.96	50	Z	0	b	30.00	+ .12	58	50	+ 5	ESE	2	b	*	68	41	-
	Wisby ...	29.88	50	SE	4	b	29.89	+ .01	48	45	- 3	NNE	4	b	*	57	41	-
	Bodö ...	29.82	44	W	3	0	29.97	+ .42	43	42	- 1	Z	0	t	1	?	39	0.20
	Christiansund	29.89	49	NSW	3	bc	29.90	+ .12	48	44	+ 4	ESE	2	b	1	50	43	-
	Skudesnaes ...	29.85	45	NNW	6	bc	29.75	- .07	47	47	+ 1	N	2	t	2	50	43	0.20
	Christiania Fjord (Færd)	29.86	51	Z	0	b	29.88	+ .10	50	47	+ 3	NNE	2	c	1	52	47	-
	Skagen (The Scaw)	29.81	51	E	1	b	29.80	- .04	51	48	+ 3	SE	3	0	3	61	46	-
	Fanö ...	29.68	54	SSE	1	t	29.69	- .10	53	53	+ 4	SSE	3	c	*	64	48	0.20
BRITISH ISLANDS.	Sumburgh Head	29.94	45	NNE	1	0	29.90	+ .01	47	44	+ 1	NE	3	c	3	51	39	-
	Stornoway ...	29.98	49	NE	4	b	29.97	+ .07	46	43	- 2	E	3	c	3	51	36	-
	Wick ...	29.96	48	NE	3	bc	29.93	+ .01	48	46	- 1	NE	3	bc	1	54	35	0.01
	Nairn ...	29.94	49	E	1	b	29.92	+ .04	45	43	- 3	E	2	c	1	54	40	0.02
	Aberdeen ...	29.93	47	NE	4	bc	29.87	- .03	46	42	- 4	N	4	cyp	5	51	39	-
	Leith ...	29.89	51	E	3	0	29.84	+ .01	47	42	- 4	ENE	3	0	*	55	41	-
	Shields ...	29.81	48	NE	3	c	29.73	- .06	44	42	- 3	NNW	6	0	6	51	41	0.03
	Spurn Head ...	29.70	45	NNE	5	t	29.60	- .13	43	43	- 4	NNW	6	t	5	49	41	0.42
	York ...	29.77	49	NNE	2	0	29.70	- .04	43	41	- 7	NNW	4	t	*	53	38	0.21
	Loughborough	29.70	47	NE	3	0	29.73	+ .05	41	40	- 5	NW	2	t	*	56	40	0.31
GERMANY & HOLLAND.	Ardrossan ...	29.86	53	NE	3	c	29.89	+ .07	45	43	- 5	NW	2	0	1	56	40	-
	Malin Head ...	29.88	51	NNW	3	bc	29.96	+ .18	47	44	0	N	5	c	3	53	45	-
	Mullaghmore ...	29.88	54	NE	5	bc	29.97	+ .22	49	45	0	NNW	5	c	4	56	47	-
	Belmullet ...	29.92	51	NNE	5	b	30.03	+ .27	49	46	- 2	NNE	4	bc	*	52	45	-
	Donaghadee ...	29.84	52	ENE	3	b	29.91	+ .15	50	46	+ 3	NE	3	b	1	54	45	-
	Liverpool (Bidston)	29.75	49	NE	4	0	29.82	+ .4	45	41	- 1	NNW	4	0	4	54	43	-
	Holyhead ...	29.75	51	ENE	5	c	29.87	+ .22	46	43	- 4	N	4	c	4	53	45	-
	Parsonstown ...	29.63	54	NNE	1	0	29.97	+ .33	49	45	0	Z	0	c	*	56	38	0.02
	Valencia ...	29.84	53	NNE	5	om	30.04	+ .43	51	47	+ 1	N	3	c	3	56	45	0.01
	Roche's Point...	29.75	50	E	3	c	29.97	+ .41	50	46	+ 3	NW	4	bc	4	52	44	-
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.70	48	ENE	3	t	29.86	+ .32	48	47	- 1	NNE	4	bc	3	49	44	0.13
	Scilly ...	29.76	52	NNW	3	b	29.87	+ .29	50	47	0	N	5	c	4	55	47	-
	Prawle Point ...	29.63	50	NNW	4	bc	29.81	+ .23	48	46	- 1	NNW	3	cm	2	52	42	0.04
	Jersey (St. Aubin's)	29.67	53	W	3	cgm	29.76	+ .14	47	45	- 5	NNW	5	ogpm	4	55	46	0.09
	Hurst Castle ...	29.60	51	W	4	cp	29.74	+ .19	46	45	- 2	NNE	3	cp	2	55	43	0.29
	Dungeness ...	29.61	50	SW	3	b	29.64	- .01	50	48	+ 2	NNW	3	cp	3	55	47	0.15
	London ...	29.59	49	N	1	cpt	29.70	+ .06	43	41	- 3	N	2	0	*	50	41	0.56
	Oxford ...	29.65	44	NNE	3	0	29.74	+ .10	42	40	- 4	NW	3	0	*	48	40	0.24
	Cambridge ...	29.68	48	N	1	t	29.70	+ .03	43	42	- 10	NNW	2	0	*	57	40	0.34
	Yarmouth ...	29.66	48	ENE	3	0.3	29.63	- .08	47	45	- 1	NW	2	c	4	50	43	0.01
PORTUGAL.	Cuxhaven ...	29.69	51	S	2	bc	29.72	- .08	53	52	- 1	S	2	b	*	63	51	0.24
	Berlin ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wiesbaden ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Munich ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Helder ...	29.66	49	SW	1	b	29.68	00	50	48	+ 1	SW	2	c	2	55	48	0.51
	Brussels (9 a.m.)	*	*	*	*	*	29.73	- .00	50	47	- 5	S	1	c	*	57	45	0.35
	Cape Gris Nez	29.61	51	SW	3	bc	29.64	- .02	49	47	+ 1	W	4	c	3	55	46	0.24
	Paris ...	29.69	56	SSW	3	c	29.79	+ .03	47	46	- 4	SSW	2	bc	*	59	42	0.20
	Brest ...	29.76	54	NNW	3	c	29.80	+ .11	48	47	- 2	N	4	0	3	59	45	0.16
	Lorient ...	29.72	52	W	3	b	29.81	+ .15	50	46	0	NNW	3	c	4	55	46	0.04
SPAIN.	Rocheport ...	29.76	53	W	5	t	29.82	- .05	53	49	- 2	W	4	t	*	59	43	0.08
	Belfort ...	?	57	W	3	c	?	?	54	50	+ 2	W	6	c	*	60	50	-
	Lyons ...	29.88	59	NSW	2	c	29.92	- .02	50	47	- 1	S	1	t	*	66	49	0.04
	Nice ...	29.83	60	SSE	1	b	29.90	+ .08	54	52	- 1	NSW	2	0	3	64	50	-
	Perpignan ...	29.95	64	SE	2	b	29.93	- .07	59	54	0	NW	3	0	*	70	48	-
	Biarritz ...	29.91	64	NNE	3	0	29.98	- .01	54	52	- 1	NSW	5	t	3	72	52	0.20
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lisbon ...	30.21	57	NNW	3	0	30.18	- .03	56	55	0	NSW	4	t	2	61	55	-

For Explanation of Columns, see bottom of p. 4.

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

WEATHER CHARTS

for 8 a.m. on Monday, 25th May, 1891.

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:

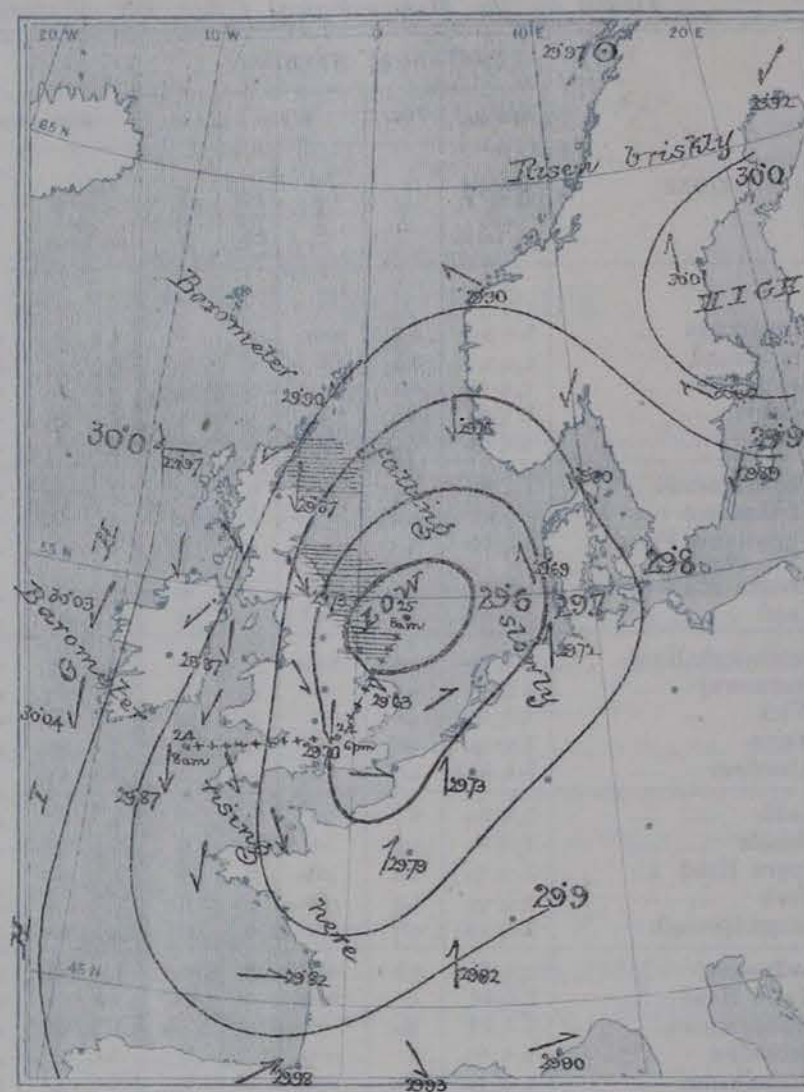
— = Rough. — = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of May

During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.879
Stornoway	29.886
Wick	29.901
Nairn	29.908
Aberdeen	29.918
Leith	29.932
Shields	29.943
Spurn Head	29.956
York	29.962
Loughborough	29.973
Ardrossan	29.935
Mullaghmore	29.929
Donaghadee	29.947
Holyhead	29.956
Liverpool	29.961
Parsonstown	29.958
Valencia	29.963
Roche's Point	29.950
Pembroke	29.961
Scilly	29.974
Prawle Point	29.992
Jersey	29.989
Hurst Castle	29.982
Dover	29.970
LONDON	29.981
Oxford	29.981
Cambridge	29.976
Yarmouth	29.967



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 May.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head.....	50.3	40.2	46.1	44.0	1.72
Stornoway	53.3	41.1	48.6	46.4	2.61
Wick	53.9	40.6	48.1	45.6	1.69
Nairn	56.3	42.2	48.6	45.4	1.61
Aberdeen	55.0	41.9	48.9	45.4	1.99
Leith	57.8	42.4	50.1	45.7	1.67
Shields	54.4	42.9	49.0	46.0	1.69
Spurn Head	54.3	45.1	49.3	47.2	1.57
York	59.6	42.2	49.8	46.7	1.85
Loughborough	61.7	42.6	51.1	47.7	2.09
Ardrossan	56.5	43.9	49.5	46.7	2.34
Mullaghmore	56.7	46.3	50.2	47.4	2.42
Donaghadee	56.0	44.2	49.6	47.5	2.26
Holyhead	56.2	46.2	50.5	48.0	1.90
Liverpool	58.0	46.0	50.8	48.0	1.84
Parsonstown	50.5	42.7	51.0	47.8	2.24
Valencia	58.1	46.3	52.8	49.7	3.20
Roche's Point	58.9	46.2	51.7	48.8	3.14
Pembroke	55.0	45.9	49.9	47.7	2.03
Scilly	56.3	48.2	52.7	50.3	1.73
Prawle Point	56.6	45.3	51.4	49.4	1.56
Jersey	59.4	47.2	53.6	50.5	1.87
Hurst Castle	58.6	45.7	51.6	49.9	1.78
Dover	57.0	46.7	52.5	49.3	1.79
LONDON	62.3	44.4	52.5	48.5	1.86
Oxford	60.6	43.4	50.6	47.5	1.95
Cambridge	62.0	42.0	51.7	48.5	1.90
Yarmouth	55.4	44.9	50.6	48.1	1.86

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, 30.0 in: and more to 29.9 in: over Ireland, and also over Sweden and the north of Norway; 29.9 in: and more, in the south of France.
 Lowest, 29.6 in: and less, in a depression lying over the North Sea.
 Gradient, moderate. Barometer rising in the west and south, falling in the east and north.

TEMPERATURE

Highest, (1) 59° at Loughmaw, 56° at Luton, 54° at Nice and Biarritz; (2) 58° at Stockholm, 53° at Paris and Antwerp, 50° at Brussels.
 Lowest, 41° at Loughborough, 42° at Oxford, 43° at Spurn Head, Cambridge and in London.
 It did not reach 60° at any of our own stations yesterday; at Oxford the maximum was only 48°, and in London 50°.

WIND

Nearly all over our islands, NW³ on our southernmost coasts, W³ over the greater part of France, S³ in the Netherlands and Denmark.
 During yesterday it was E³ to NE³ at most of our own stations, and W¹ in the Channel, but has shifted round during the night.

WEATHER

Dull, raw, and very showery over the eastern half of the Kingdom, fair generally in the west.
 The rainfall measured this morning varied from a quarter to more than half an inch over our eastern and southern coasts and in the Netherlands.

SEA

Wough on our northern coast, moderate in the northwest and apparently in the Channel also, slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

In the course of the past 24 hours a depression has travelled eastwards from St. George's Channel to the neighbourhood of London, and thence in a northeasterly direction to the North Sea, its centre being now at a considerable distance to the eastward of Flamborough Head. It brought rain to nearly all parts of Great Britain, especially to the more eastern stations. In London a long continued thunderstorm occurred yesterday, with heavy hail at times in our southern suburbs. As the disturbance passes northwards the weather seems likely to improve in the south, but a cold night is likely to be experienced inland.

FORECASTS

For the 24 hours ending at NOON on 26th May

1891.

DISTRICTS.

FORECASTS.

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

N³ and NW³ breezes, fresh to moderate, cloudy, unsettled, rain at times, cold.
 N³ and NW³ winds, moderate to light; showery to fair, very cold tonight.

DISTRICTS.

FORECASTS.

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

N³ and NW³ winds, moderate; unsettled, rain at times.
 N³ and NW³ winds, moderate to light; some showers, but fair as a whole, very cold tonight.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...									Holyhead ...	29.72	51	46	E.N.E.	5	4
Sumburgh Head									Valencia ...						
Stornoway ...	29.45	50	48	N.E.	4	6	4		Scilly ...						
Aberdeen ...									Jersey ...	29.65	55	49	W	3	3
Shields ...									Dungeness ...	29.61	54	52	SW	3	3
Ardrossan ...									London ...						*
Malin Head ...	29.67	52	48	N.E.	2	6	1		Yarmouth ...						
Mullaghmore ...									Rochefort ...	29.74	56	52	W	5	3
Belmullet ...	29.87	52	49	N.E.	5	6	*								

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

Weather rainy over the southeast of England and the west of France and showery in the southwest of our Islands. Fine over the northern parts of the United Kingdom and also over by far the greater portion of the Continent, but dull and unsettled over Lapland and northern Russia, with rain at Haparanda. Dull also at many of the Italian stations. Heavy rain falling during day in several parts of England and France, with hail in places, and a prolonged thunderstorm in London.

Temperature highest 70° at Brindisi, 69° at Odessa, 68° at Nicolaieff, and 67° at Kiev, Kharkov and Algiers; above 60° over the Mediterranean and eastern Europe generally. Lowest 39° at Haparanda, 44° at Rode and Christiansund and 46° at Helsingfors, Loughborough, Oxford and in London; below 50° in most parts of the United Kingdom. Remaining below 50° all day in some of the eastern and central parts of England; exceeding 60° in France, and reaching 72° at Biarritz.

Winds light to fresh from the End or NEnd over the greater part of our Islands and also over the Netherlands, Denmark and North Germany. Wnd or SWnd over the Channel, France and Spain, as well as in Scandinavia and northern Russia. Light from the SEnd over Austria and the south of Russia; variable over Italy and Algeria. No important change occurring during day.

Barometer highest 30.2 ins. and upwards in an anticyclone lying off the southwest of Spain; 30.1 ins. and upwards in another system lying over Russia, - Col. with readings above 29.8 ins. extending from the latter region across the Baltic, Denmark and the North Sea to the north of our Islands. Lowest 29.4 ins. and less in a depression over Lapland; 29.6 ins. and less in another over the southwest of our Islands, 29.7 ins. and less in a third over South Germany, 29.8 ins. and less in a fourth over Corsica and Sardinia. Depression over our southwest coasts subsequently moving eastwards to the southeast of England.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 17th TO 23rd - MAY, 1891.

The Summary will be issued 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.

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

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

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

„ Weekly „ „ „ „ £1 10 0 „

DAILY WEATHER REPORT.

for Tuesday 26th May. 1891.
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 5.)	SHADE TEMP.		Amount of Rainfall.	
		Reading at 32° F. and Sea Level.	Dry.	Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...	30.10	41	2	0	bc	30.13	+21	47	44	-1	SW	2	bc	*	54	37	—	
	Hernösand ...	30.07	47	0	2	bc	30.03	+02	57	46	+1	ESE	4	bc	*	66	36	—	
	Stockholm ...	29.98	53	NE	2	bc	29.87	-13	52	48	-6	E	6	0	*	63	45	—	
	Wisby ...	29.89	47	N	4	bc	29.76	-13	53	?	+5	NNE	4	bc	*	57	41	—	
	Bodö ...	29.96	49	2	0	bc	29.93	-04	50	46	+7	E	1	0	1	50	41	—	
	Christiansund	29.82	54	NE	3	c	29.92	+02	51	49	+3	ENE	4	bc	2	54	48	—	
	Skudesnaes ...	29.80	53	2	0	T	29.79	+04	47	46	0	NNW	2	T	2	54	45	0.39	
	Christiania Fjord (Færd)	29.90	51	NNE	1	0	29.84	-04	52	49	+2	NNE	3	0	2	54	50	0.35	
	Skagen (The Scaw)	29.86	52	2	0	0	29.77	-09	54	51	+3	E	1	0	1	63	50	—	
	Fanö ...	29.77	52	NE	4	c	29.69	0.0	51	50	-2	E	4	T	*	59	50	0.20	
BRITISH ISLANDS.	Sumburgh Head	29.89	46	NNE	3	0	29.84	-06	47	45	0	NE	4	0	4	49	42	0.03	
	Stornoway ...	29.96	46	E	4	0	29.90	-07	47	45	+1	E	4	bc	4	49	36	0.04	
	Wick ...	29.94	49	NE	3	0	29.87	-06	48	46	0	NE	4	0	2	51	44	0.08	
	Nairn ...	29.88	48	E	3	c	29.83	-05	44	42	-1	N	2	p	3	55	42	0.11	
	Aberdeen ...	29.84	46	N	5	cp	29.77	-07	48	46	+2	ENE	2	c	3	50	43	0.16	
	Leith ...	29.83	48	ENE	4	c	29.75	-08	45	44	-2	E	3	T	*	51	41	0.10	
	Shields ...	29.74	44	NNW	6	T	29.67	-06	46	45	+2	NNE	3	0	5	46	39	0.42	
	Spurn Head ...	29.63	45	NNW	6	Tm	29.58	-05	45	44	+2	N	3	Tm	3	46	42	0.40	
	York ...	29.72	43	NNW	3	T	29.63	-09	46	44	+3	NE	1	T	*	46	38	0.31	
	Loughborough	29.74	44	NW	3	T	29.67	-06	43	41	+2	NNW	3	0	*	44	40	0.21	
GERMANY & HOLLAND.	Ardrossan ...	29.81	54	ENE	2	c	29.77	-04	48	45	+3	NNW	2	0	1	57	40	—	
	Malin Head ...	29.88	47	NNW	5	bc	29.84	-04	46	42	-1	N	5	bc	3	48	44	—	
	Mullaghmore ...	29.96	48	NNW	4	bc	29.86	-10	46	42	-3	NNW	6	cp	4	52	44	—	
	Belmullet ...	30.01	49	N	3	0	29.91	-12	50	46	+1	N	3	0	*	51	43	0.07	
	Donaghadee ...	29.86	52	NE	4	bc	29.80	-06	48	44	-2	NE	5	c	3	55	46	—	
	Liverpool (Bidston)	29.79	49	NNW	4	0	29.70	-09	45	42	0	NW	4	0	4	51	42	0.09	
	Holyhead ...	29.85	48	NNW	3	bc	29.75	-10	49	44	+3	N	4	bc	4	52	45	—	
	Parsonstown ...	29.94	51	NNW	1	bc	29.85	-09	45	43	-4	NW	1	c	*	56	34	—	
	Valencia ...	30.03	51	N	4	bc	29.89	-14	51	47	0	N	3	cp	3	55	45	0.04	
	Roche's Point...	29.95	53	NNW	5	bc	29.87	-08	50	45	0	N	4	bc	4	55	45	—	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.89	48	NW	2	c	29.81	-08	44	44	-4	N	2	cp	1	52	48	0.03	
	Scilly ...	29.94	51	NW	4	bc	29.82	-12	49	45	-1	NNW	5	c	4	52	45	—	
	Prawle Point ...	29.87	50	NW	3	bc	29.77	-10	50	48	+2	NNW	2	c	1	56	42	0.05	
	Jersey (St. Aubin's)	29.88	50	N	3	om	29.81	-07	49	44	+2	N	4	opg	4	52	44	0.12	
	Hurst Castle ...	29.81	48	NNW	4	cp	29.76	-05	50	49	+4	N	3	bc	1	52	44	0.05	
	Dungeness ...	29.73	47	NNW	3	p	29.72	+01	49	46	-1	N	5	bc	4	53	42	0.09	
	London ...	29.76	44	NW	2	0	29.72	+02	49	44	+6	SW	2	bc	*	49	40	0.03	
	Oxford ...	29.80	44	NW	2	d	29.72	-08	47	43	+5	W	1	c	*	47	38	—	
	Cambridge ...	29.70	45	NNW	2	T	29.68	-02	46	43	+3	SW	1	0	*	47	39	0.27	
	Yarmouth ...	29.66	50	W	3	c	29.65	+02	48	42	-4	N	3	c	3	52	40	0.06	
PENINSULA.	Cuxhaven ...	29.77	52	E	2	c	29.71	-06	52	53	+1	W	2	bc	*	62	51	—	
	Berlin ...	29.76	64	ESE	2	c	29.70	-06	57	53	-1	N	5	0	*	70	54	—	
	Wiesbaden ...	*	*	*	*	*	29.83	+04	49	46	-9	N	2	c	*	68	45	0.04	
	Munich ...	29.90	47	SW	5	T	29.88	-02	52	47	-5	N	2	bc	*	68	43	0.47	
	The Helder ...	29.75	53	ENE	1	bc	29.71	+03	48	46	-2	SW	2	0	3	57	48	—	
	Brussels (9 a.m.)	*	*	*	*	*	29.78	+05	46	44	-4	SW	4	0	*	58	43	0.04	
	Cape Gris Nez	29.73	46	NW	4	T	29.73	-09	47	44	-2	W	4	0	4	53	43	—	
	Paris ...	29.84	49	NNW	2	bc	29.87	+03	46	44	-1	SW	3	bc	*	61	40	0.16	
	Brest ...	30.00	50	N	3	c	29.88	+08	50	46	+2	NNW	3	0	4	57	46	—	
	Lorient ...	29.93	53	NNW	2	c	29.92	+11	50	46	0	N	3	0	4	57	46	0.04	

WEATHER CHARTS

for 8 a.m. on Tuesday, 26th May, 1891.

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.

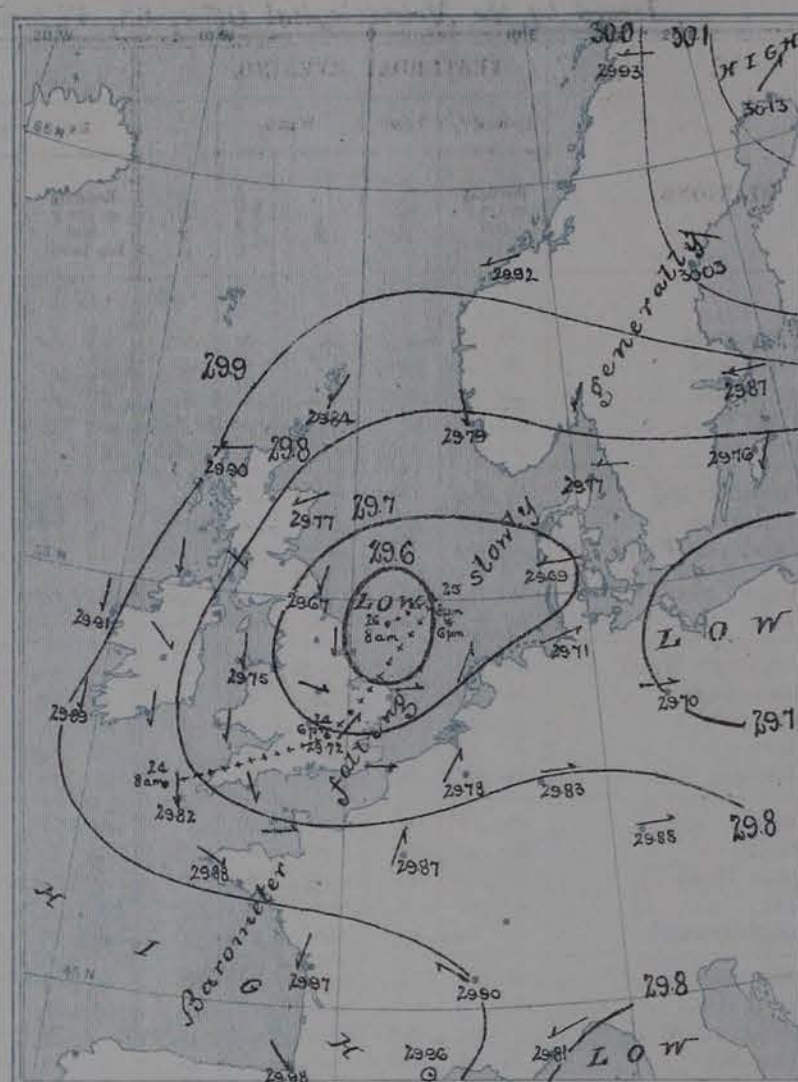
SEA DISTURBANCE—Where considerable, is shown thus:

— = Rough. — = High.

MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.879
Stornoway	29.886
Wick	29.901
Nairn	29.908
Aberdeen	29.918
Leith	29.932
Shields	29.943
Spurn Head	29.956
York	29.962
Loughborough	29.973
Ardrossan	29.985
Mullaghmore	29.929
Donaghadee	29.947
Holyhead	29.956
Liverpool	29.961
Parsonstown	29.958
Valencia	29.963
Roche's Point	29.959
Pembroke	29.961
Scilly	29.974
Prawle Point	29.992
Jersey	29.989
Hurst Castle	29.982
Dover	29.970
LONDON	29.981
Oxford	29.981
Cambridge	29.976
Yarmouth	29.967



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.

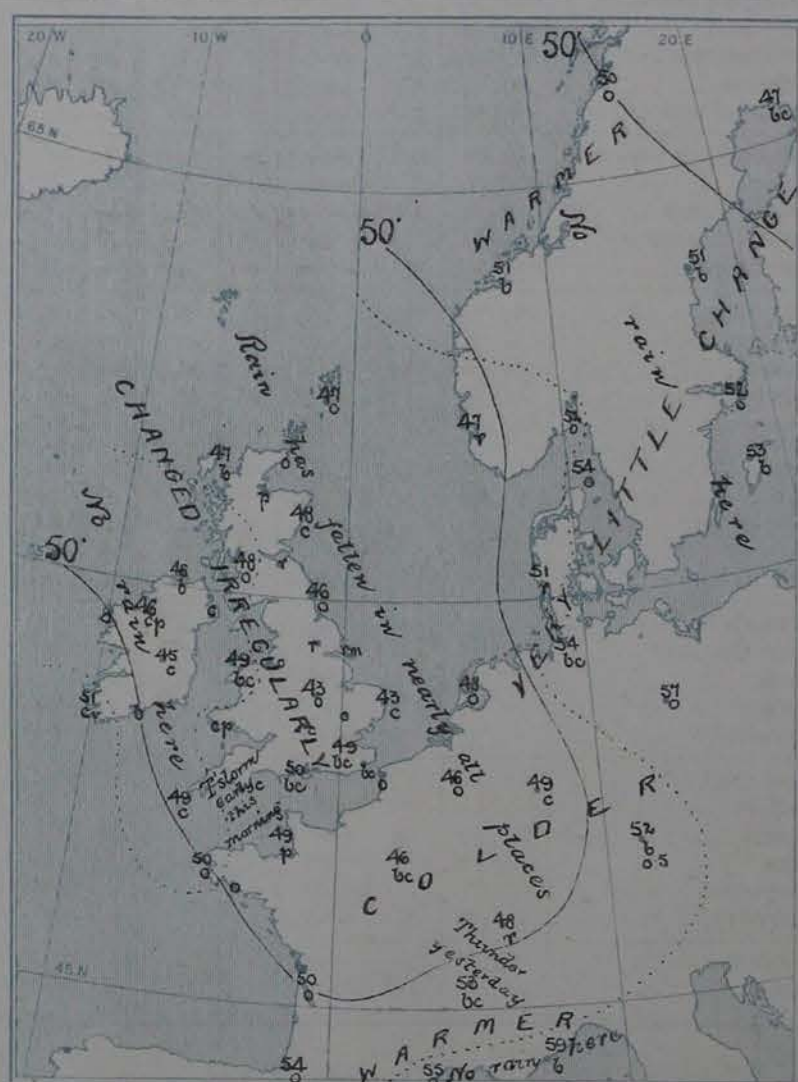
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of May.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	50.3	40.2	46.1	44.0	1.72
Stornoway	53.3	41.1	48.6	46.4	2.61
Wick.....	53.9	40.6	48.1	45.6	1.69
Nairn	56.3	42.2	48.6	45.4	1.61
Aberdeen.....	55.0	41.9	48.9	45.4	1.99
Leith.....	57.8	42.4	50.1	49.7	1.67
Shields.....	54.4	42.9	49.0	46.0	1.69
Spurn Head.....	54.3	45.1	49.3	47.2	1.57
York.....	59.6	42.2	49.8	46.7	1.85
Loughborough	61.7	42.6	51.1	47.7	2.09
Ardrossan.....	56.5	43.9	49.5	46.7	2.34
Mullaghmore.....	56.7	46.3	50.2	47.4	2.43
Donaghadee.....	56.0	44.2	49.6	47.5	2.26
Holyhead.....	56.2	46.2	50.5	48.0	1.90
Liverpool.....	58.0	45.0	50.8	46.0	1.84
Parsonstown.....	59.5	42.7	51.0	47.8	2.21
Valencia.....	58.1	46.3	52.8	49.7	3.20
Roche's Point.....	58.9	46.2	51.7	48.8	3.14
Pembroke.....	55.0	45.9	49.9	47.7	2.03
Scilly.....	56.3	48.2	52.7	50.3	1.73
Prawle Point.....	56.6	45.3	51.4	49.4	1.56
Jersey.....	59.4	47.2	53.8	50.5	1.87
Hurst Castle	54.6	45.7	51.6	49.9	1.78
Dover.....	57.0	46.7	52.5	49.3	1.79
LONDON.....	62.3	44.4	52.5	48.5	1.86
Oxford.....	60.6	43.4	50.6	47.5	1.95
Cambridge.....	62.0	42.0	51.7	48.5	1.90
Yarmouth.....	55.4	44.9	50.6	48.1	1.86

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 in: and upwards, in the north of Sweden, and also off the southwest of Spain.
 Lowest, 29.6 in: and less, in a depression lying off the east of England; 29.7 in: and less, in another disturbance over Eastern Germany.
 Gradients slight and irregular. Barometer falling a little in nearly all parts of Western Europe.

TEMPERATURE

Highest, 59° at Nice, 57° at Berlin and Lisbon, 55° at Leipzig, 54° at Skagen and Copenhagen and 53° at Lyons.
 Lowest, 43° at Loughborough and Yarmouth, 44° at Havre, and 45° at Leith, Spurn Hd. and Barronstown.
 The maxima registered yesterday were below 50° at many of the English stations; at Loughborough the thermometer did not exceed 44°.

WIND

Light or moderate from the End in Scandinavia and Denmark, and from the NE^W in Scotland.
 Moderate to fresh from the N^W in the west of our Islands, light from W. or SW. over the Netherlands, Germany, the southeast of England and the north of France.
 Light from the N^W over the southern part of France.

WEATHER

Rain in the northeast of Great Britain and also at Christiania and Danzig; showing at several of our western stations.
 Fair or fine in most other localities, but dull in the west of France.
 Rain fell yesterday in nearly all parts of Western Europe, and a thunderstorm occurred early this morning at Cowes Point.

SEA

Moderate to smooth generally, but rather rough at Shields.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression off the east of England is not moving much, but is inclined to advance over our northern district. In the west the distribution of pressure is becoming somewhat irregular, and the general indications are in favour of a continuance of unsettled showery weather over the greater part of the United Kingdom.

FORECASTS

For the 24 hours ending at NOON on 27th May 1891.

DISTRICTS.

FORECASTS.

- | | | |
|---|------------------|--|
| 0 | SCOTLAND NORTH | NE ^W winds, moderate or fresh; changeable, some showers. |
| 1 | SCOTLAND EAST | |
| 2 | ENGLAND N.E. | N ^W winds, light; unsettled, rain at times. |
| 3 | ENGLAND EAST | W ^W winds, light or moderate; changeable, some showers, possibly thunder. |
| 4 | MIDLAND COUNTIES | |
| 5 | ENGLAND SOUTH | |

DISTRICTS.

FORECASTS.

- | | | |
|----|---------------|---|
| 6 | SCOTLAND WEST | N ^W winds, light; unsettled, some showers. |
| 7 | ENGLAND N.W. | |
| 8 | ENGLAND S.W. | NW ^W winds, moderate, changeable, showery. |
| 9 | IRELAND NORTH | N ^W winds, fresh; unsettled, some showers. |
| 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.

THER.								WIND								THER.								WIND							
		BAR:	D.	W.	D.	F.	WEA.	SEA			BAR:	D.	W.	D.	F.	WEA.	SEA			BAR:	D.	W.	D.	F.	WEA.	SEA					
Skudesnaes	...	29.78	54	51	2	0	7	2	Holyhead	...	29.87	50	46	2	0	7	2	...	Valencia	...	30.05	54	50	2	0	7	2				
Sumburgh Head	...	29.87	48	48	NE	4	C	4	...	...	29.93	51	48	2	0	7	2	...	Scilly	...	29.93	51	48	2	0	7	2		
Stornoway	...	29.90	48	46	E	4	C	4	...	...	29.85	51	46	2	0	7	2	...	Jersey	...	29.85	51	46	2	0	7	2		
Aberdeen	...	29.85	47	42	NNE	5	C	5	...	...	29.69	47	45	2	0	7	2	...	Dungeness	...	29.69	47	45	2	0	7	2		
Shields	...	29.73	45	43	NNW	6	C	6	...	...	29.73	46	44	2	0	7	2	...	London	...	29.73	46	44	2	0	7	2		
Ardrossan	...	29.84	57	50	NW	2	C	1	...	...	29.66	51	47	2	0	7	2	...	Yarmouth	...	29.66	51	47	2	0	7	2		
Malin Head	...	29.74	47	43	NNW	5	C	3	...	...	29.51	59	54	2	0	7	2	...	Rocheport	...	29.51	59	54	2	0	7	2		
Mullaghmore	...	29.78	48	44	NW	5	C	3	...	...								...		...
Belmullet	...	30.03	51	46	N	3	C	*	...	...								...		...

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

Weather in morning fine and bright as a whole at the Mediterranean and Adriatic stations only, fine temporarily in some parts of central, northern, and northwestern Europe, but dull in the other parts, and changeable and unsettled in those regions generally. Cold rain falling over the eastern half of Great Britain and in several parts of France and Spain. Rain falling later except in the extreme west and north, the fall being considerable on our northeast coasts, at Loughborough and at Munich; thunder and lightning at Brouage and Lyons.

Temperature very low for time of year all over northwestern Europe. Morning readings varying between 60° and 68° on the western, southern, and eastern shores of the Mediterranean, and also over Austria, Hungary, Poland, and central Russia, and exceeding 50° over Northern Russia, lower over northwestern Europe, and below 50° over the greater part of our Islands and Norway; lowest 41° at Loughborough, 42° at Oxford, 43° in London and at several other English stations. Rising to between 50° and 56° in some parts of our Islands later, but not touching 50° over our northeastern and eastern coasts; exceeding 60° at Paris and in the south of France.

Wind generally N³ over the United Kingdom and strong on our northeast coasts, W³ in the west and south of France, S³ over Belgium and the Netherlands, SE³ in Denmark, very variable elsewhere. Moderating in force over our Islands later, and backing to W² all over France as well as the south of England.

Barometer highest 30.1 in: and more to 30.0 in: over Central Russia and also over Spain, exceeding 30.0 in: over our Islands, 30.0 in: and more to 29.9 in: over Ireland, and exceeding 29.9 in: over the south of France and northern half of Scandinavia; lowest 29.6 in: and less in a depression over the North Sea, 29.7 in: and less, in another (shallower one) over Hungary. Depression over North Sea beginning to fill up 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.
The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark the observations are taken at 8 p.m. (Christiania time).

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

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

DAILY WEATHER REPORT.

for *Wednesday, 27th May, 1891.*
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

H. H. SCOTT, Secretary.																		
STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.			BAROMETER.		SHADE TEMP.			WIND.				SHADE TEMP.			
Reading at 32° F. and Sea Level.	Dry.	Direct.	Force. (0 to 12.)	Weather.	Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direct.	Force. (0 to 12.)	Weather.	Sea. (0 to 10.)	Max.	Min.	Amount of Rainfall.		
SCANDINAVIA.																		
Haparanda ...	29.95	49	Z	0	C	29.74	- 39	49	49	+ 2	SE	2	T	*	61	34	-	
Hernösand ...	29.84	54	NE	2	bc	29.65	- 38	54	51	+ 3	Z	0	O	*	68	36	0.04	
Stockholm ...	29.70	52	ESE	2	b	29.67	- 26	57	53	+ 5	W	2	C	*	63	45	-	
Wisby ...	29.70	51	WSE	4	b	29.73	- 03	50	48	- 3	W	4	O	*	70	45	-	
Bodö ...	29.94	47	NNE	1	O	29.78	- 15	42	41	- 2	NNE	2	O	1	50	41	0.04	
Christiansund	29.88	50	NNE	8	O	29.76	- 16	45	42	- 6	NE	7	f	3	54	43	0.08	
Skudesnaes ...	29.64	51	N	2	T	29.71	- 08	47	45	- 0	SSE	6	O	5	61	45	0.20	
Christiania Fjord (Færder)	29.69	52	NE	3	T	29.71	- 13	50	48	- 2	SW	5	C	4	54	48	0.67	
Skagen (The Scaw)	29.64	51	NE	1	O	29.77	- 00	49	48	- 5	W	2	b	2	55	45	0.22	
Fanö ...	29.72	47	WSE	1	b	29.76	+ 07	53	49	+ 2	SE	4	b	*	55	43	0.24	
Sumburgh Head	29.76	46	NE	5	T	29.62	- 22	44	44	- 3	NE	5	T	6	49	43	0.53	
Stornoway ...	29.82	47	NE	5	O	29.66	- 24	44	44	- 3	NE	7	T	6	49	42	0.20	
Wick ...	29.72	47	NE	3	m	29.60	- 27	46	46	- 2	NE	7	rw	4	48	44	0.55	
Nairn ...	29.71	47	NNE	2	T	29.55	- 28	46	45	+ 2	ESE	3	T	3	47	43	0.53	
Aberdeen ...	29.70	46	NE	3	O	29.56	- 21	45	45	- 3	SE	2	om	3	51	44	0.14	
BRITISH ISLANDS.																		
Leith ...	29.68	46	NE	3	T	29.54	- 21	46	46	+ 1	W	1	om	*	50	43	0.21	
Shields ...	29.59	45	NNE	4	d	29.54	- 13	46	45	- 0	Z	0	O	3	47	40	0.53	
Spurn Head ...	29.56	47	E	1	op	29.56	- 02	47	45	+ 2	S	3	cm	3	49	42	0.04	
York ...	29.59	44	NW	1	T	29.56	- 07	46	45	- 0	S	1	O	*	49	40	0.13	
Loughborough	29.62	46	W	2	O	29.59	- 08	47	45	+ 4	SSW	1	O	*	51	41	0.07	
Ardrossan ...	29.66	51	NE	2	Op	29.55	- 22	49	47	+ 1	WSE	1	C	1	57	40	0.07	
Malin Head ...	29.73	48	N	4	bp	29.60	- 24	49	47	+ 3	NW	2	O	2	50	44	-	
Mullaghmore ...	29.76	49	NW	6	C	29.63	- 23	49	47	+ 3	NW	4	C	3	50	45	-	
Belmullet ...	29.82	49	N	4	b	29.68	- 23	49	48	- 1	NW	4	O	*	51	44	0.19	
Donaghadee ...	29.68	49	NE	4	O	29.59	- 21	48	47	- 0	NW	3	O	1	53	45	0.10	
Liverpool (Bidston)	29.62	47	NW	1	O	29.56	- 14	45	44	- 0	N	1	O	1	51	43	0.08	
Holyhead ...	29.66	48	NW	4	Cq	29.58	- 17	47	45	- 2	N	2	Oq	2	50	44	0.02	
Parsonstown ...	29.74	50	NW	1	C	29.66	- 14	48	46	+ 3	Z	0	C	*	54	39	-	
Valencia ...	29.81	51	NW	4	C	29.73	- 16	49	46	- 2	N	3	Cp	2	54	43	0.01	
Roche's Point...	29.72	53	N	4	C	29.68	- 19	48	44	- 2	NW	4	U	3	54	42	-	
Pembroke (St. Ann's Hd.)	29.72	47	NW	3	O	29.61	- 17	47	46	+ 3	NW	2	Cq	2	51	43	0.01	
Scilly ...	29.74	49	NW	4	C	29.65	- 17	50	47	+ 1	NW	4	C	4	52	45	0.08	
Prawle Point ...	29.70	45	NW	2	T	29.64	- 13	47	45	- 3	SW	2	bc	1	52	41	0.13	
Jersey (St. Aubin's)	29.72	51	W	3	bcp	29.69	- 12	49	46	- 0	W	3	Cgp	3	52	42	0.42	
Hurst Castle ...	29.68	49	WSE	4	bc	29.64	- 12	48	46	- 2	NW	3	C	1	54	44	0.02	
Dungeness ...	29.67	51	W	6	bc	29.62	- 10	47	44	- 2	NW	4	bcp	2	55	44	0.02	
London ...	29.66	44	S	2	bc	29.62	- 10	52	47	+ 3	SW	2	bc	*	53	41	-	
Oxford ...	29.63	48	SW	1	C	29.60	- 12	48	45	+ 1	SW	1	C	*	54	42	0.20	
Cambridge ...	29.62	50	S	1	b	29.60	- 08	48	47	+ 2	S	1	C	*	54	40	-	
Yarmouth ...	29.63	49	SW	2	C	29.62	- 08	48	46	+ 5	SSW	3	C	3	51	42	0.03	
GERMANY & HOLLAND.																		
Cuxhaven ...	29.74	50	NW	2	C	29.79	+ 08	48	46	- 6	ESE	1	m	*	58	46	-	
Berlin ...	29.80	58	NW	2	b	29.84	+ 14	59	53	+ 2	SE	3	bc	*	63	48	-	
Wiesbaden ...	*	*	*	*	*	29.81	- 02	51	48	+ 2	S	1	b	*	61	43	-	
Munich ...	29.82	53	E	2	O	29.80	- 08	52	49	- 0	Z	0	O	*	59	45	0.04	
The Helder ...	29.73	49	SSW	1	b	29.71	- 00	50	48	+ 2	SSW	1	b	1	54	43	-	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.)	*	*	*	*	*	29.71	- 07	52	48	+ 6	SSE	4	C	*	54	44	0.04	
Cape Gris Nez	29.68	51	SW	4	b	29.63	- 10	48	44	+ 1	W	4	bc	4	54	45	0.08	
Paris ...	29.76	55	SSE	2	bc	29.75	- 12	46	45	- 0	S	3	T	*	?	45	-	
Brest ...	29.80	53	NW	2	C	29.71	- 17	47	46	- 3	NW	1	C	2	55	43	0.12	
Lorient ...	29.78	51	W	4	O	29.73	- 19	50	46	- 0	W	1	C	3	54	46	-	
Rochefort ...	29.83	54	NW	5	C	29.78	- 19	53	51	+ 3	W	4	T	3	61	41	0.12	
Belfort ...	?	53	W	3	b	?	?	50	48	+ 2	W	3	bc	*	56	40	0.28	
Lyons ...	29.82	54	NW	1	t	29.89	- 01	48	46	- 5	SSE	1	bc	*	61	44	0.20	
Nice ...	29.79	55	SW	4	O	29.78	- 03	53	51	- 6	ESE	2	C	1	68	50	-	
Perpignan ...	29.89	56	NW	2	O	29.89	- 07	56	48	+ 1	NW	3	b	*	62	49	0.04	
Biarritz ...	29.97	56	NW	3	b	29.93	- 05	52	49	- 2	W	5	T	4	59	48	0.08	
PENINSULA.																		
Corunna ...	*	*	*	*	*	30.00	- 08	57	54	- 2	SW	4	O	3	61	50	0.16	
Lisbon ...	30.11	56	NW	4	b	30.13	+ 03	55	51	- 2	NW	3	b	2	63	50	-	

WEATHER CHARTS

for 8 a.m. on Wednesday, 27th May, 1891.

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.

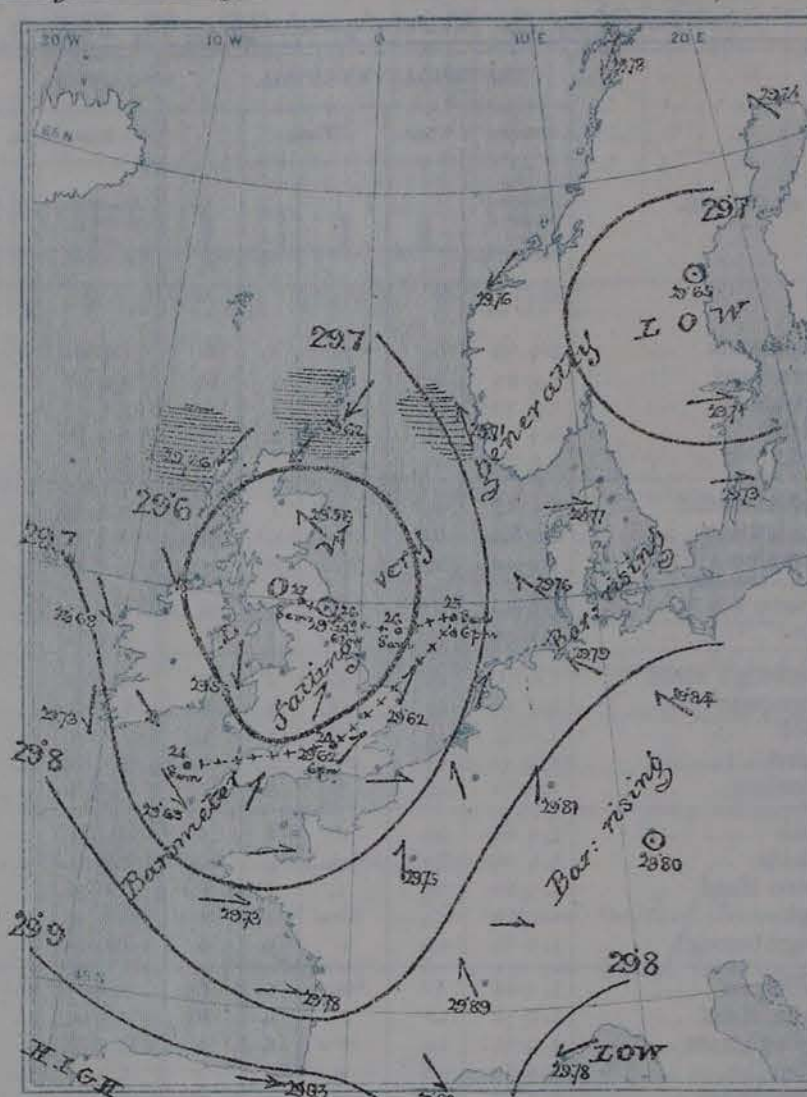
SEA DISTURBANCE—Where considerable, is shown thus:

— Rough. — High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of May
During the 20 Years, 1871—1890.

STATIONS	MEAN READINGS.
Sumburgh Head	29.879
Stornoway	29.886
Wick	29.901
Nairn	29.908
Aberdeen	29.918
Leith	29.932
Shields	29.943
Spurn Head	29.956
York	29.962
Loughborough	29.973
Ardrossan	29.985
Mullaghmore	29.929
Donaghadee	29.947
Holyhead	29.956
Liverpool	29.961
Parsonstown	29.958
Valencia	29.963
Roche's Point	29.959
Pembroke	29.961
Seilly	29.974
Prawle Point	29.992
Jersey	29.989
Hurst Castle	29.982
Dover	29.970
LONDON	29.981
Oxford	29.981
Cambridge	29.976
Farmouth	29.967



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 May.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	At 8 a.m.	Wet.	
Sumburgh Head	50.3	40.2	46.1	44.0	1.72
Stornoway	53.2	41.1	48.6	46.1	2.61
Wick	53.9	40.6	48.1	45.6	1.69
Nairn	56.3	42.2	48.6	45.4	1.81
Aberdeen	55.0	41.9	48.9	45.4	1.99
Leith	57.8	42.4	50.1	45.7	1.67
Shields	54.4	42.9	49.0	45.0	1.69
Spurn Head	54.3	45.1	49.3	47.2	1.57
York	59.6	42.2	49.5	46.7	1.85
Loughborough	61.7	42.6	51.1	47.7	2.09
Ardrossan	56.5	43.9	49.5	46.7	2.34
Mullaghmore	56.7	46.3	50.2	47.4	2.42
Donaghadee	56.0	44.2	49.5	47.5	2.26
Holyhead	56.2	46.2	50.5	48.0	1.90
Liverpool	58.0	45.0	50.5	48.0	1.84
Parsonstown	59.5	42.7	51.0	47.8	2.24
Valencia	58.1	46.3	52.8	49.7	3.20
Roche's Point	58.9	48.2	51.7	48.8	3.14
Pembroke	56.0	45.3	49.9	47.7	2.03
Seilly	56.9	48.2	52.7	50.3	1.73
Prawle Point	56.5	46.3	51.4	49.4	1.56
Jersey	59.4	47.2	53.6	50.5	1.87
Hurst Castle	58.6	45.7	51.6	49.9	1.73
Dover	57.0	46.7	52.5	49.3	1.79
LONDON	62.3	44.4	52.5	48.5	1.86
Oxford	60.6	43.4	50.6	47.5	1.95
Cambridge	62.0	42.0	51.7	48.5	1.90
Farmouth	55.4	44.9	50.6	48.1	1.86

NOTE—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1865-90.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.1 in. and upwards, over the southern part of the Spanish Peninsula.
 Lowest, 29.6 in. and less, in a large depression lying over all the more northern part of Britain; 29.5 in. and less, in another large system over Scandinavia.
 Gradients slight. Barometer falling at all but the Danish and German stations.

TEMPERATURE

Highest, 55° at Berlin, 57° at Stockholm, 56° at Leipzig, 55° at Liabov, 54° at Helsingfors, and 53° at Danzig, Rostock and Wies.
 Lowest, 42° at Bonn, 44° at Hamburg, 45° at Copenhagen, 45° at Aberdeen and Liverpool, and 46° at Wick, Harwich, Louth, Shields, and Paris.
 The maxima registered yesterday were below 55° in nearly all parts of the United Kingdom, and below 50° at several of our northern stations.

WIND

Moderate from the NWth over our western coasts and from the Wth over the Channel and Bay of Biscay.
 Light from the Sth over the Netherlands and eastern and central parts of England.
 SE on the eastern shores of the North Sea, steering to a gale from the NEth in the north of Scotland.

WEATHER

Fine over the south of England, and also over Denmark, Germany, and the Netherlands.
 Cloudy or overcast elsewhere, with rain in the north of Scotland, as well as at several of the French stations.
 Rain fell yesterday in nearly all parts of Western Europe, and thunder was heard at Braunschweig early this morning.

SEA

Wrough off the north of Scotland, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The large depression over Great Britain seems likely to occasion a continuance of showery, unsettled weather in all districts, but in the south the showers will probably be interspersed with fine intervals.

The disturbance appears to be still moving slowly in a westerly direction.

FORECASTS

For the 24 hours ending at NOON on 28th May

1891.

DISTRICTS.

FORECASTS.

- | | | |
|---|------------------|---|
| 0 | SCOTLAND NORTH | E th and NE th winds, strong to moderate; unsettled, rain at times. |
| 1 | SCOTLAND EAST | Light Variable breezes; changeable, showery. |
| 2 | ENGLAND N.E. | S th and SW th breezes, light; changeable, showery. |
| 3 | ENGLAND EAST | |
| 4 | MIDLAND COUNTIES | |
| 5 | ENGLAND SOUTH | SW th winds, moderate; changeable, showery. |

DISTRICTS.

FORECASTS.

- | | | |
|----|---------------|---|
| 6 | SCOTLAND WEST | Same as N.Y. |
| 7 | ENGLAND N.W. | |
| 8 | ENGLAND S.W. | NW th winds, moderate or fresh; changeable, showery. |
| 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:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnes ...	29.73	60	52	E	2	0	2		Holyhead ...	29.70	47	44	NW	4	og
Sumburgh Head ...	29.79	47	47	NE	4	0	4		Valencia ...	29.85	54	49	N	4	cvq
Stornoway ...	29.87	45	45	NE	5	7	5		Scilly ...	29.98	51	48	NW	4	c
Aberdeen ...	29.74	47	44	ESE	3	0	3		Jersey ...	29.77	48	45	SW	3	c
Shields ...	29.65	46	45	N	3	7	4		Dungeness ...	29.68	53	49	W	6	bc
Ardrossan ...	29.70	49	49	ESE	2	0	1		London ...	29.67	52	48	SSW	2	vp
Malin Head ...	29.78	48	44	N	5	0	3		Yarmouth ...	29.65	51	47	NW	4	c
Mullaghmore ...	29.80	49	45	NW	6	0	4		Rocheport ...	29.89	58	51	NW	4	c
Belmullet ...	29.86	50	46	NNE	5	6	*								

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

Weather in morning fine generally over northern Europe, the Baltic Provinces and Central Russia, as well as over the greater part of the Mediterranean, temporarily fine over some parts of England, France, and central Europe, but cloudy, and as a whole unsettled elsewhere. Rain during the day over nearly the whole of western and northwestern Europe, the fall being heavy over our northern and northwestern districts in the south of Norway; thunderstorms again reported at Braxelbirt and Lyons.

Temperature fallen over France, but inclined to recover a little in our Islands, risen rather decidedly over northern Russia, but fallen fast at Archangel. Morning readings again exceeding 60° at most of the Mediterranean stations and over Central Europe, as well as over southern and central Russia and the Baltic Provinces. Lowest 38° at Archangel, 33° at Le Mans, 43° at Loughborough and Yarmouth, 44° at Navi and Pembroke, 45° at Portsmouth and Liverpool, 46° at Malin Head, Shields, Cambridge, Bournemouth and Paris. Not touching 60° at any of our own stations during the day, but exceeding that value in several parts of France and Germany.

Wind E over northern Europe, NE in Scotland, N in Ireland, NW over the west of England and the Bay of Biscay, W over the greater part of France and Germany; very variable elsewhere, but mainly S to SE over Hungary and the south of Russia. Light at most inland stations, moderate to fresh on the coast: No material change reported later.

Barometer highest 30.2 ins. and more to 30.0 ins. over northern Russia, Finland, and the east of Lapland; 30.1 ins. to 29.9 ins. over the Spanish Peninsula and southwest of France. Lower over the British Isles, North Sea, and Central Europe, and lowest of all, 29.6 ins. and less in a depression off our northeast coast and in another over Galicia. Little change later beyond a gradual decrease of pressure over northwestern 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.

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

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

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

„ Weekly „ „ „ „ £1 10 0 „

DAILY WEATHER REPORT.

for THURSDAY 28TH MAY. 1891.
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

K. H. SCOTT, Secretary.																	
No. 55, Victoria Street, London.																	
8 A.M. TO DAY.																	
PAST 24 HOURS.																	
YESTERDAY EVENING.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
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For Explanation of Columns, see bottom of p. 4.

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

WEATHER CHARTS

for 8 a.m. on Thursday, 28th May, 1891.

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 bars 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:

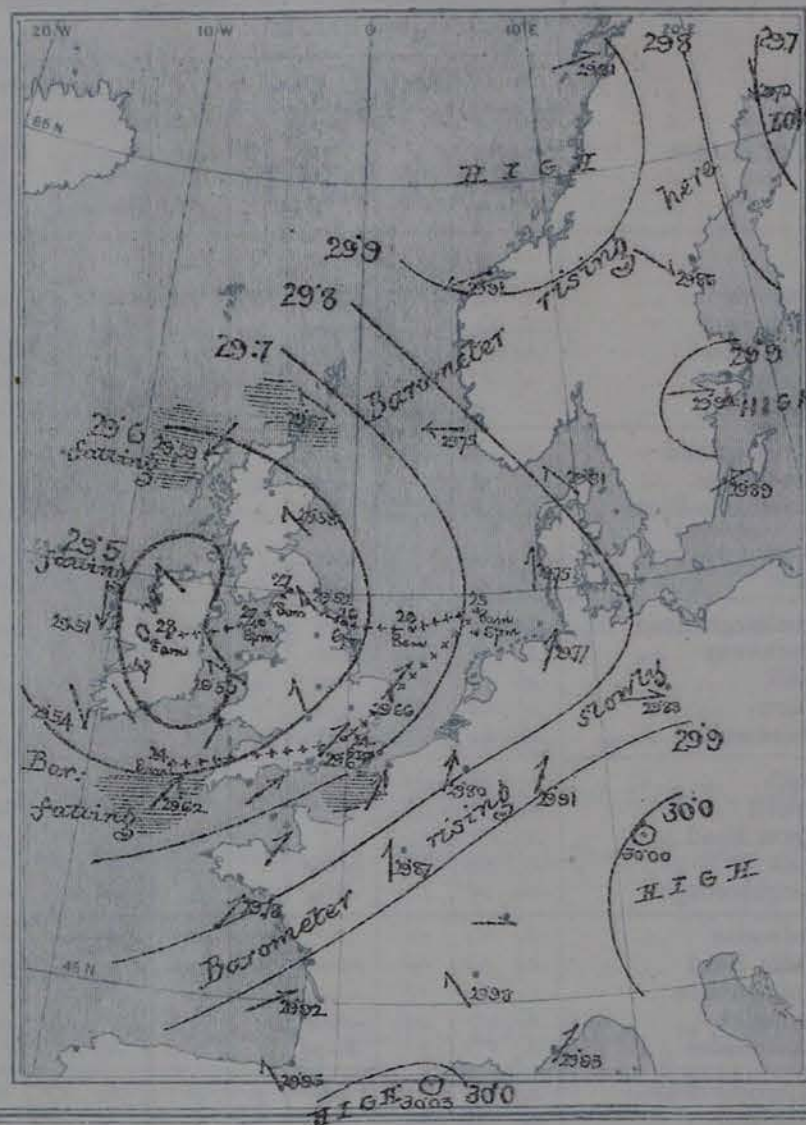
☰ = Rough. ☰ = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of May

During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.879
Stornoway	29.886
Wick	29.901
Nairn	29.908
Aberdeen	29.918
Leith	29.932
Shields	29.943
Spurn Head	29.956
York	29.962
Loughborough	29.973
Ardrossan	29.935
Mullaghmore	29.929
Donaghadee	29.947
Holyhead	29.956
Liverpool	29.961
Parsonstown	29.958
Valencia	29.963
Roche's Point	29.959
Pembroke	29.961
Scilly	29.974
Prawle Point	29.992
Jersey	29.989
Hurst Castle	29.982
Dover	29.970
LONDON	29.981
Oxford	29.981
Cambridge	29.976
Yarmouth	29.967



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.

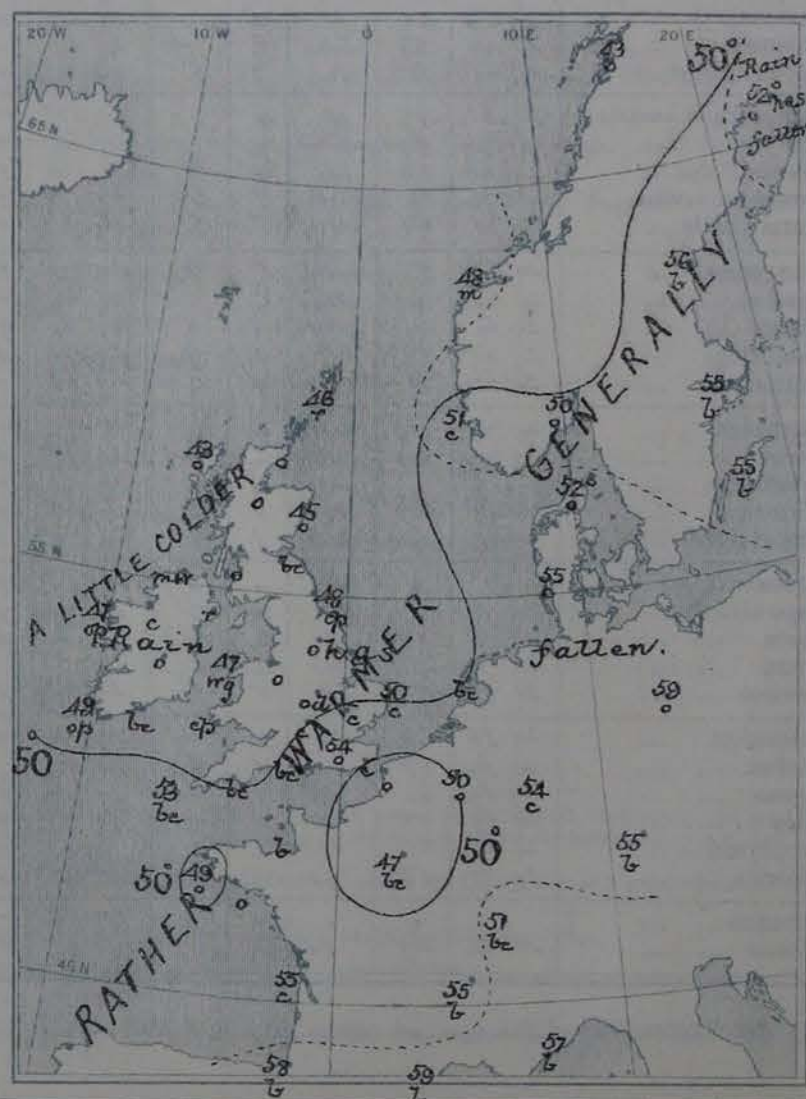
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of May.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	50.3	40.2	46.1	44.0	1.72
Stornoway	53.3	41.1	48.6	46.4	2.61
Wick.....	53.9	40.6	48.1	45.6	1.69
Nairn.....	56.3	42.2	48.6	45.4	1.61
Aberdeen.....	55.0	41.9	48.9	45.4	1.99
Leith.....	57.8	42.4	50.1	45.7	1.67
Shields.....	54.4	42.9	49.0	46.0	1.69
Spurn Head.....	54.3	45.1	49.3	47.2	1.57
York.....	59.6	42.2	49.8	46.7	1.85
Loughborough.....	61.7	42.6	51.1	47.7	2.09
Ardrossan.....	56.5	43.9	49.6	46.7	2.34
Mullaghmore.....	56.7	46.3	50.2	47.4	2.42
Donaghadee.....	56.0	44.2	49.0	47.5	2.26
Holyhead.....	56.2	46.2	50.5	48.0	1.90
Liverpool.....	58.0	45.0	50.8	46.9	1.84
Parsonstown.....	59.5	42.7	51.0	47.8	2.24
Valencia.....	58.1	46.3	52.8	49.7	3.20
Roche's Point.....	58.9	46.2	51.7	48.8	3.14
Pembroke.....	55.0	45.9	49.9	47.7	2.03
Scilly.....	56.3	48.2	52.7	50.3	1.73
Prawle Point.....	56.6	45.3	51.4	49.4	1.50
Jersey.....	59.4	47.2	53.6	50.5	1.87
Hurst Castle.....	54.6	45.7	51.6	49.9	1.78
Dover.....	57.0	46.7	52.5	49.3	1.79
LONDON.....	62.3	44.4	52.5	48.5	1.86
Oxford.....	60.6	43.4	50.6	47.5	1.95
Cambridge.....	62.0	42.0	51.7	48.5	1.90
Yarmouth.....	55.4	44.0	50.6	48.1	1.86

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, 30.0 in: and upwards, over Spain and also over South Germany; 29.9 in: and upwards in the west of Norway.
 Lowest, 29.5 in: and less, in a depression lying over the greater part of Ireland; 29.7 in: and less, in another system over Lapland.
 Gradient slight. Barometer falling in many parts of the United Kingdom and also in the south of Scandinavia, but rising elsewhere.

TEMPERATURE

Highest, 53° at Berlin and Perpignan, 58° at Biarritz, 57° at Nice, 56° at Helsingfors, and 55° at Stockholm, Malmö, Göteborg and Lyons.
 Lowest, 43° at Porto and Stornoway, 45° at Aberdeen and Loughborough, and 46° at Limerick, Kilmarnock and Donaghadee.
 The maxima registered over our Islands yesterday were below 60° in most places, and below 50° in the north of Scotland.

WIND

Light to fresh from the S^W or S^Wnd over the Netherlands and the greater part of England and France.
 E or NE over Scotland, the north of Ireland and the southern part of Scandinavia.
 Moderate from the N^W or N^Wnd in the west and south of Ireland and also in Sweden.

WEATHER

Changeable and showery in the west and north of our Islands, but fair at our eastern, southern, and most of the Continental stations.
 Showers fell yesterday over nearly the whole of Western Europe, in some parts of England they were very heavy, and were accompanied by thunder lightning & hail.

SEA

Rough off the north of Scotland and rather rough at Pelly and Cape Finlay, but moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression over Ireland appears to be still moving in a westerly direction, but its progress is very slow, and the weather over our Islands seems likely to remain changeable and showery for the present. Some increase of temperature, is however, probable over England.

FORECASTS

For the 24 hours ending at NOON on 29th May.

1891.

DISTRICTS.

FORECASTS.

- | | | |
|---|------------------|--|
| 0 | SCOTLAND NORTH | NE ² and E ² winds, moderate; fair generally, but local showers. |
| 1 | SCOTLAND EAST | |
| 2 | ENGLAND N.E. | E ² and SE ² winds, light; fair generally, but local showers. |
| 3 | ENGLAND EAST | |
| 4 | MIDLAND COUNTIES | S ² winds, light or moderate; fair generally, but local showers, warmer. |
| 5 | ENGLAND SOUTH | |

DISTRICTS.

FORECASTS.

- | | | |
|----|---------------|--|
| 6 | SCOTLAND WEST | Same as N ^o 1 and 2 |
| 7 | ENGLAND N.W. | |
| 8 | ENGLAND S.W. | S ² and S ^W ² winds, moderate; changeable, showery. |
| 9 | IRELAND NORTH | E ² winds, light or moderate; changeable, showery. |
| 10 | IRELAND SOUTH | NW ² to Variable breezes; changeable, showery. |

WARNINGS

NONE ISSUED.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND		WEA.	SEA.		BAR.	THER.		WIND		WEA.	SEA.
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.76	51	48	NE	6	bcn	4	Holyhead ...	29.57	52	49	NW	1	bc	2
Sumburgh Head ...	29.67	43	43	NE	6	T	6	Valencia ...	29.71	54	50	NW	3	c	4
Stornoway ...	29.66	43	45	NE	7	T	6	Seilly ...	29.69	52	47	NW	4	bc	4
Aberdeen ...	29.65	47	45	E	2	0	3	Jersey ...	29.73	53	46	W	3	bc	3
Shields ...	29.55	49	46	SE	3	c	3	Dungeness ...	29.66	55	50	WNW	5	bc	4
Ardrossan ...	29.52	52	48	WNW	1	0	1	London ...	29.63	51	47	SW	2	0	*
Malin Head ...	29.57	48	48	NNE	3	0	2	Yarmouth ...	29.62	51	47	S	4	bc	4
Mullaghmore ...	29.58	54	51	WNW	4	c	2	Rocheport ...	29.86	57	53	W	5	0	?
Belmullet ...	29.61	52	50	WNW	4	0	*								

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

Weather fine and bright in Spain and over southeastern and some parts of central Europe. Cloudy or overcast at the Russian stations, changeable and unsettled elsewhere. Rain falling over many parts of the British Islands, France, the northern parts of the Mediterranean, and some parts of the Baltic. Rain very general over central and western Europe and the British Isles later, but amounts small except in the Netherlands.

Temperatures fallen fast over southern Europe, inclined to rise over the United Kingdom. Morning readings exceeding 60° over Algeria, Sicily, southern Italy, southeastern Europe, and central Russia, lower elsewhere. Below 50° over nearly the whole of the British Islands, the northern part of France and in Norway, and as low as 40° at Archangel, 42° at Rostov, 44° in the Netherlands and Bohemia, 45° at Liverpool and Le Mans, and 46° at Berlin. Rising during day to between 50° and 58° over the greater part of the United Kingdom, to 60° and more in the southern parts of France, and to 70° at Perpignan.

Wind moderate and cyclonic over the North Sea and United Kingdom, as a whole, but becoming a moderate gale from NE. in the extreme north of Scotland. Another cyclonic circulation prevailing over the northern half of the Mediterranean; NW breezes prevailing over the Spanish Peninsula, very variable winds elsewhere. No material change later.

Barometer highest 30.2 ins. and more to 29.9 ins. over northern and central Russia, 30.1 ins. and more to 29.9 ins. over the Spanish Peninsula. Considerably lower over northwestern, central and southern Europe, and as low as 29.6 ins. and less, in a shallow depression lying over the British Isles, 29.7 ins. and less, in another over Sweden and the Baltic, 29.8 ins. and less, in a third over Sardinia, Corsica, and the southeast of France. British depression moving little and irregularly 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.

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

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

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

„ Weekly „ „ „ £1 10 0 „

DAILY WEATHER REPORT.

for *Friday, 29th May, 1891.*
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		BAROM :	TEMP.	WIND.			BAROMETER.		SHADE TEMP.			WIND.				SHADE TEMP.			
				Force.			Reading	Difference	Dry.	Wet.	Difference	Dirce.	Force.			Max.	Min.		Amount
		at 32° F. and Sea Level.	Dry.	Dirce.	(0 to 12.)	Weather.	at 32° F. and Sea Level.	from 8 a.m. yesterday.										of Rainfall.	
SCANDINAVIA.	Haparanda ...	30.01	45	N	2	0	30.12	+ .42	44	39	- 8	NE	4	C	*	54	?		
	Hernösand ...	29.96	52	SE	2	0	30.06	+ .20	48	46	- 8	ESE	2	0	*	72	46		
	Stockholm ...	30.00	55	N	0	0	29.99	+ .01	55	52	0	SW	2	0	*	68	46		
	Wisby ...	29.95	51	W	4	C	29.96	+ .01	51	51	- 4	WSW	4	C	*	57	45	0.04	
	Bodö ...	30.05	45	NE	2	0	30.02	+ .11	46	43	+ 3	NNE	5	0	3	45	41		
	Christiansund	29.89	50	NE	5	bc	29.91	+ .00	53	49	+ 5	WNW	2	m	2	55	48		
	Skudesnaes ...	29.87	48	SSE	4	bc	29.91	+ .16	52	48	+ 1	ESE	4	C	2	52	45	0.32	
	Christiania Fjord (Færdar)	29.90	52	N	0	0	29.95	+ .06	51	49	+ 1	NNE	2	0	1	52	48	0.39	
	Skagen (The Scaw)	29.89	52	SE	1	bc	29.96	+ .15	52	48	0	S	1	0	0	63	48		
	Fanö ...	29.88	50	N	0	0	29.90	+ .15	52	50	- 3	ESE	4	C	*	57	43		
BRITISH ISLANDS.	Sumburgh Head	29.70	47	ESE	3	r	29.75	+ .08	46	46	0	ESE	4	r	6	48	43	0.20	
	Stornoway ...	29.84	51	E	4	e	29.86	+ .03	49	48	+ 6	E	4	0	4	51	41		
	Wick ...	29.63	52	SE	3	0	29.63	+ .03	49	49	+ 1	SE	2	om	2	53	43	0.16	
	Nairn ...	29.55	51	ESE	1	C	29.55	+ .00	48	48	+ 2	E	1	r	2	53	43	0.02	
	Aberdeen ...	29.60	46	SE	2	0	29.62	+ .04	50	47	+ 5	SE	4	bcq	3	50	44	0.01	
	Leith ...	29.53	49	ESE	1	bc	29.53	+ .01	48	47	- 4	E	1	0	*	52	43	0.13	
	Shields ...	29.54	48	ESE	2	ot p	29.59	+ .07	51	47	+ 3	S	4	C	2	51	44	0.04	
	Spurn Head ...	29.60	53	S	4	0	29.69	+ .12	51	47	+ 2	SSW	4	0	4	58	46	0.01	
	York ...	29.58	50	SW	1	r	29.66	+ .11	51	47	+ 4	S	2	bc	*	64	42	0.28	
	Loughborough	29.59	57	S	4	C	29.69	+ .11	52	47	+ 7	SSW	3	bc	*	61	44	0.01	
GERMANY & HOLLAND.	Ardrossan ...	29.49	50	NE	2	0	29.50	+ .01	50	49	+ 1	ESE	1	op	1	59	45	0.26	
	Malin Head ...	29.42	49	SE	4	om	29.45	+ .03	46	46	- 2	ESE	3	ogt	2	53	46	0.06	
	Mullaghmore ...	29.41	50	N	2	op	29.48	+ .02	47	44	- 3	WSW	5	0	3	53	44	0.36	
	Belmullet ...	29.46	45	WNW	4	r	29.49	+ .02	45	46	+ 1	W	2	C	*	48	44	0.25	
	Donaghadee ...	29.47	50	SSW	4	C	29.48	+ .03	50	49	+ 4	S	2	bc	0	53	46	0.19	
	Liverpool (Bidston)	29.53	50	SE	1	0	29.62	+ .09	50	45	+ 3	S	2	bc	2	53	44	0.27	
	Holyhead ...	29.49	50	SSW	3	C	29.55	+ .05	49	47	+ 2	SW	5	cqg	4	54	45	0.14	
	Parsonstown ...	29.41	50	N	0	r	29.58	+ .09	47	44	0	N	0	C	*	56	43	0.65	
	Valencia ...	29.54	48	NW	4	op	29.60	+ .06	50	45	+ 1	WSW	3	C	3	53	41	0.08	
	Roche's Point...	29.50	53	WNW	4	bc	29.60	+ .05	48	44	- 2	W	2	0	3	54	41	0.45	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.51	49	SSW	4	C	29.66	+ .11	49	48	+ 1	SW	3	bc	4	51	46	0.17	
	Scilly ...	29.62	53	WSW	4	cp	29.68	+ .06	53	50	0	SW	4	bcp	5	56	49	0.06	
	Prawle Point ...	29.65	50	WSW	6	C	29.74	+ .08	49	47	- 1	SW	3	cm	2	53	47	0.01	
	Jersey (St. Aubin's)	29.73	54	SW	3	bc	29.81	+ .06	54	50	+ 1	S	4	cgm	3	58	49	0.11	
	Hurst Castle ...	29.70	53	SSW	5	bc	29.78	+ .09	53	51	+ 2	SW	5	bc	3	57	48	0.03	
	Dungeness ...	29.75	52	S	3	C	29.81	+ .10	53	52	+ 4	WSW	5	0	3	57	49	0.02	
	London ...	29.70	55	S	3	bc	29.78	+ .11	54	50	0	S	2	0	*	59	44		
	Oxford ...	29.66	49	S	4	C	29.74	+ .10	52	48	+ 2	S	3	C	*	57	45	0.02	
	Cambridge ...	29.67	56	SW	2	0	29.76	+ .12	54	51	+ 3	S	2	C	*	61	43		
	Yarmouth ...	29.69	54	S	4	0	29.79	+ .13	55	50	+ 5	SW	3	bc	3	56	45		
PENINSULA.	Cuxhaven ...	29.88	54	SSW	3	bc	29.91	+ .14	53	51	0	S	3	bc	*	61	50	0.04	
	Berlin ...	29.95	63	SW	2	0	30.04	+ .16	61	55	+ 2	SSE	2	0	*	68	50		
	Wiesbaden ...	*	*	*	*	*	30.00	+ .09	55	?	+ 1	SW	2	bc	*	64	45		
	Munich ...	30.03	54	NE	2	0	30.08	+ .08	58	53	+ 3	SE	4	0	*	63	41		
	The Helder ...	29.85	52	SE	1	0	29.85	+ .10	53	52	+ 3	SSW	2	C	3	57	50		
	Brussels (9 a.m.)	*	*	*	*	*	29.89	+ .09	57	53	+ 7	S	5	bc	*	59	50	0.20	
	Cape Gris Nez	29.76	54	SW	1	C	29.81	+ .11	53	57	+ 4	SW	4	C	3	57	45	0.08	
	Paris ...	29.86	55	S	3	r	29.91	+ .04	52	50	+ 5	SSE	2	bc	*	65	47	0.28	
	Brest ...	29.75	55	W	3	bc	29.80	?	51	50	+ 2	W	2	C	3	59	46		
	Lorient ...	29.78	56	WSW	3	0	29.79	+ .01	51	50	0	SSE	1	r	3	57	50	0.16	
FRANCE AND BELGIUM.	Rochefort ...	29.84	59	SW	5	0	29.84	+ .08	56	55	+ 1	SE	3	0	*	63	45	0.04	
	Belfort ...	?	59	W	3	bc	?	?	61	56	+ 10	N	3	0	*	64	41		
	Lyons ...	29.93	64	S	2	0	29.99	+ .01	55	51	0	SSE	2	0	*	70	48		
	Nice ...	29.99	60	SW	2	0	30.08	+ .15	57	53	0	E	1	C	1	66	50		
	Perpignan ...	29.91	65	NE	3	0	29.95	+ .08	61	58	+ 2	NE	1	0	*	71	55		
	Biarritz ...	29.88	67	ESE	2	C	29.85	+ .10	57	54	- 1	ESE	2	0	2	73	54	0.04	
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
PENINSULA.	Lisbon ...	30.01	60	SSW	4	0	29.99	+ .08	57	55	0	WSW	4	0	5	64	54	0.12	

For Explanation of Columns, see bottom of p. 4.

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

WEATHER CHARTS

for 8 a.m. on Friday, 29th May, 1891.

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.

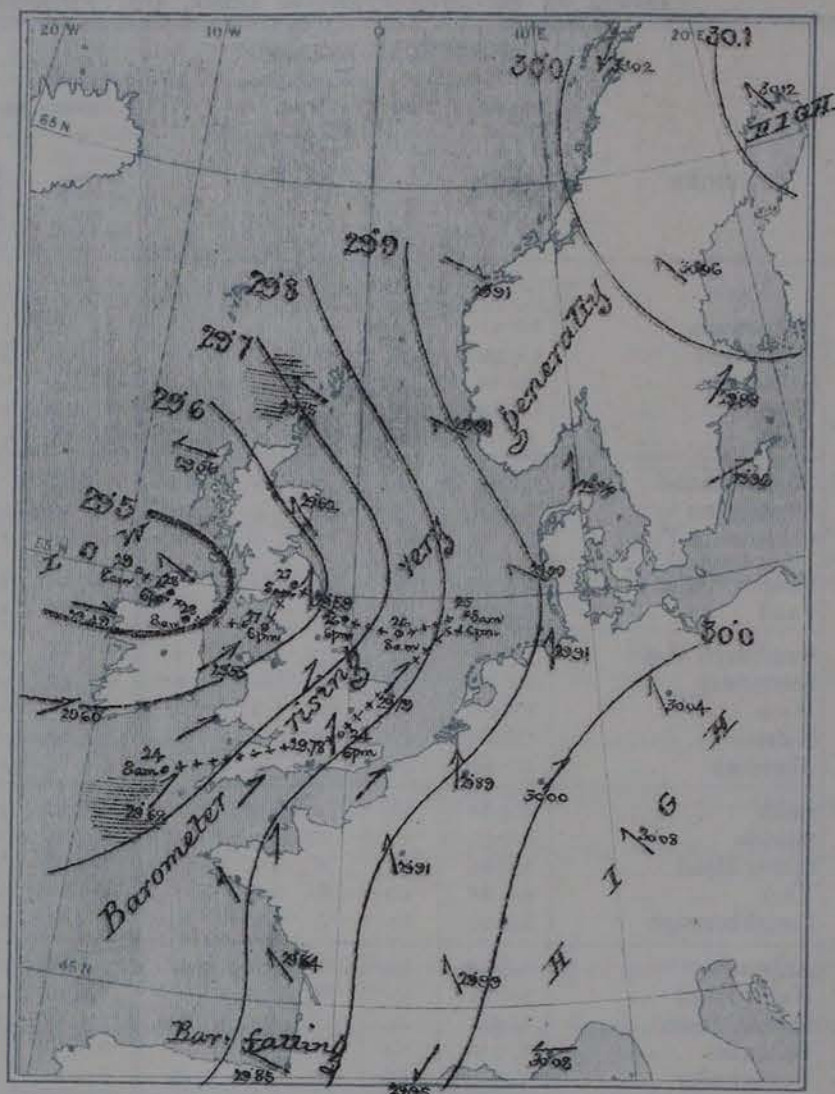
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→ = forces above 10; → = forces 8 to 10;
→ = forces 5 to 7; → = forces 1 to 4.
○ = dead calm.

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

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of May
During the 20 Years: 1871-1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.879
Stornoway	29.886
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Shields	29.943
Spurn Head	29.956
York	29.962
Loughborough	29.973
Ardrossan	29.935
Mullaghmore	29.929
Donaghadee	29.947
Holyhead	29.956
Liverpool	29.961
Parsonstown	29.958
Valencia	29.963
Roche's Point	29.959
Pembroke	29.961
Seilly	29.974
Prawle Point	29.992
Jersey	29.989
Hurst Castle	29.982
Dover	29.970
LONDON	29.981
Oxford	29.981
Cambridge	29.976
Yarmouth	29.967



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.

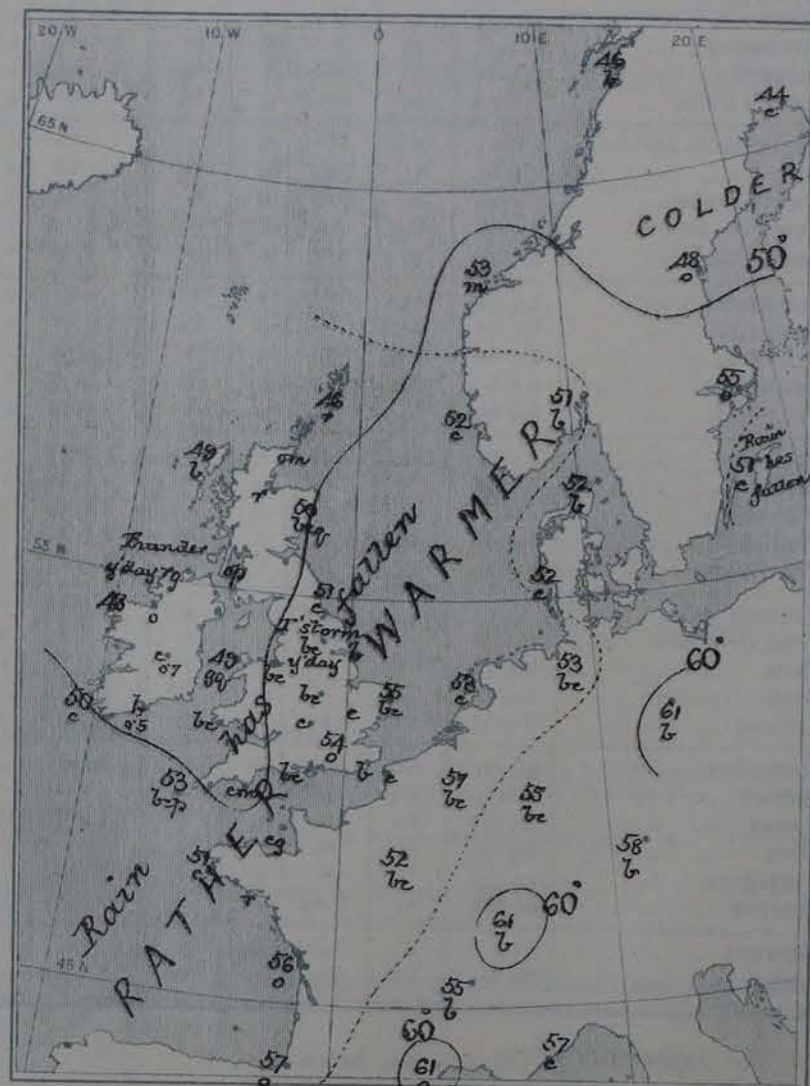
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of May.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	AT 8 P.M.		
			Dry.	Wet.	
Sumburgh Head.....	50.3	40.2	46.1	44.0	1.72
Stornoway.....	53.3	41.1	48.6	46.4	2.61
Wick.....	53.9	40.6	48.1	45.6	1.69
Nairn.....	56.3	42.2	48.6	45.4	1.61
Aberdeen.....	55.0	41.9	48.9	45.4	1.99
Leith.....	57.8	42.4	50.1	45.7	1.67
Shields.....	54.4	42.9	49.0	46.0	1.69
Spurn Head.....	54.3	45.1	49.3	47.2	1.57
York.....	59.6	42.2	49.8	46.7	1.85
Loughborough.....	61.7	42.6	51.1	47.7	2.09
Ardrossan.....	56.5	43.9	49.5	46.7	2.34
Mullaghmore.....	56.7	46.3	50.2	47.4	2.12
Donaghadee.....	56.0	44.2	49.6	47.5	2.26
Holyhead.....	56.2	46.2	50.5	48.0	1.90
Liverpool.....	58.0	45.0	50.8	46.9	1.84
Parsonstown.....	59.5	42.7	51.0	47.8	2.24
Valencia.....	58.1	46.3	52.8	49.7	3.20
Roche's Point.....	58.0	46.2	51.7	48.8	3.14
Pembroke.....	55.0	45.9	49.9	47.7	2.03
Seilly.....	56.3	48.2	52.7	50.3	1.73
Prawle Point.....	56.6	45.3	51.4	49.4	1.56
Jersey.....	59.4	47.2	53.6	50.5	1.87
Hurst Castle.....	58.6	45.7	51.6	49.9	1.78
Dover.....	57.0	46.7	52.5	49.3	1.79
LONDON.....	62.3	44.4	52.5	48.5	1.86
Oxford.....	60.6	43.4	50.6	47.5	1.95
Cambridge.....	62.0	42.0	51.7	48.5	1.90
Yarmouth.....	55.4	44.9	50.6	48.1	1.86

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 in. and upwards in England; 30.0 in. and upwards, over Germany, Switzerland, and the south of France.

Lowest, 29.5 in. and less, in a depression lying over the north of Ireland and the southwest of Scotland.

Gradients slight. Barometer rising over nearly the whole of Western Europe, but falling a little at Berlin and Lisbon.

TEMPERATURE

Highest, 61° at Berlin, Belfast, and Perpignan, 58° at Munich, 57° at Brussels, Biarritz, Nice and Lisbon, and 56° at Rochefort.

Lowest, 44° at Copenhagen, 46° at Rode, Lumburg, Ht., and Melin Ht., and 47° at Mullaghmore and Carrington.

The maxima registered over our Islands yesterday were higher than of late; at Loughborough and Cambridge the thermometer rose to 61°.

WIND

Moderate from the S.W. or S.W. over the greater part of England.

Light from the S.E. over France and Germany; moderate from the same quarter over Scotland and the eastern shore of the North Sea.

Moderate from the W. in Ireland; variable in Scandinavia.

WEATHER

Changeable and showery over the greater part of the United Kingdom.

Fine at most of the Continental stations, but dull in the west of France, with rain at Lorient.

Showers fell yesterday in most parts of Western Europe, and thunderstorms occurred at Shields, York, and Melin Ht. A solar halo was seen at Oxford in the evening.

SEA

Rough at Lumburg Ht. and rather rough at Baulk Point, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression in the northwest seems likely to pass away shortly, over the Atlantic. There are at present no indications of the approach of any new disturbance of importance, but a shallow system is apparently advancing over the Bay of Biscay, so that the weather is likely to remain in a changeable condition especially over England.

FORECASTS

For the 24 hours ending at NOON on 30th May. 1891.

DISTRICTS.

FORECASTS.

0 SCOTLAND
NORTH

SE¹ winds moderate; changeable, and showery at first, but improving later.

1 SCOTLAND
EAST

S¹ winds, moderate; changeable, some showers, thunder locally.

2 ENGLAND
N.E.

Same as N°5

3 ENGLAND
EAST

Same as N°2

4 MIDLAND
COUNTIES

5 ENGLAND
SOUTH

SW¹ to S¹ winds, moderate; changeable some showers, thunder locally.

DISTRICTS.

FORECASTS.

6 SCOTLAND
WEST

E¹ winds, light; changeable, showery.

7 ENGLAND
N.W.

Same as N°2

8 ENGLAND
S.W.

Same as N°5

9 IRELAND
NORTH

SW¹ winds, moderate; changeable, some showers.

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.

		THER:		WIND						THER:		WIND					
	BAR:	D.	W.	D.	F.	WEA	SEA			BAR:	D.	W.	D.	F.	WEA	SEA	
Skudesnaes ...	29.80	50	48	SE	7	0	5	Holyhead ...	...	29.51	54	50	SSW	3	bc	2	
Sumburgh Head	29.69	46	46	ESE	2	r	6	Valencia ...	...	29.56	52	48	NW	5	cyp	5	
Stornoway ...	29.55	50	47	NE	4	c	4	Scilly ...	...	29.62	55	52	WSW	4	cp	5	
Aberdeen ...	29.60	48	46	ESE	3	0	4	Jersey ...	...	29.75	56	52	SSW	4	bc	3	
Shields ...	29.51	50	47	ESE	3	0	3	Dungeness ...	...	29.75	55	51	WSW	6	b	5	
Ardrossan ...	29.49	53	49	Z	0	b	0	London ...	...	29.69	56	50	S	3	bc p	*	
Malin Head	29.46	51	49	ENE	2	bc	3	Yarmouth ...	...	29.68	54	50	S	5	b	5	
Mullaghmore	29.44	50	48	ENE	2	st	2	Rochefort ...	...	29.85	58	54	SW	5	r	?	
Belmullet ...	29.47	47	46	H	6	sm	*										

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

Weather changeable and showery in the west and north of our Islands. Fine at our eastern, southern, and most of the Continental stations, but dull over Spain, Russia, and some of the central countries, with rain at Prague and Vienna. Showers falling during day in nearly all parts of Western Europe, with thunderstorms over the northern counties of England and Ireland. Solar halo seen at Oxford in evening.

Temperatures highest 63° at Moscow, Kharkov, Nicolaieff and Algiers, and 68° at Kiev, Odessa, Naples and Brindisi; above 60° over the Mediterranean, the Adriatic, and greater part of Russia. Lowest 43° at Porto and Stornoway, 45° at Aberdeen, Loughborough and Le Mans, and 46° at Lumburg, Metz, Namur, and Donaghadee, below 50° in all but the southern parts of the United Kingdom and also in the north of France. Subsequently rising above 55° at most of the English stations, and reaching 61° at Loughborough and Cambridge. Exceeding 70° over the southern parts of France.

Wind light to fresh from the Snd or SWnd over the Netherlands, Western Germany, and the greater part of England and France. Est or NEst over Scotland, the north of Ireland, and the southern part of Norway; Nst or NWst in the west and south of Ireland and also in Sweden. Light from the End or SEnd over Russia and the southern shore of the Baltic; Wst over Eastern Germany and Austria, NWst over Italy; Sst in Algeria; variable in Spain. Very little change occurring during day.

Barometer highest 30.1 ins. and upwards, in an anticyclone lying over Algeria; 29.9 ins. and upwards, in the east of Norway. Lowest (1) 29.5 ins. and less, in a well marked depression lying over Ireland; (2) 29.7 ins. and less, in a shallow disturbance over Central Russia; (3) 29.8 ins. and less, in a still shallower system lying over Eastern Austria. Last depression subsequently moving slowly in a northerly direction, but new disturbance beginning to appear over the northeast of Spain.

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

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 *Saturday, 30th May,* 1891.
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

PUBLISHED BY THE METEOROLOGICAL OFFICE, 55, VICTORIA STREET, LONDON. R. H. SCOTT, Secretary.																		
STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea. (0 to 9.)	SHADE TEMP.				
	Reading at 32° F. and Sea Level.	Dry.	Direc.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)		Max.	Min.	Amount of Rainfall.		
SCANDINAVIA.	Haparanda ...	30.04	45	E.N.E.	2	bc	29.97	-15	44	44	0	S	2	*	52	48		
	Hernösand ...	30.04	45	N.E.	2	b	29.99	-07	49	47	+1	N.E.	2	0	61	45		
	Stockholm ...	29.99	55	Z	0	b	30.03	+04	59	53	+4	Z	0	0	68	48		
	Wisby ...	29.97	53	S.S.W.	2	b	29.99	+03	55	53	+4	N.E.	2	0	57	46		
	Bodö ...	29.92	48	N.N.E.	4	b	29.90	-12	45	41	-1	N	4	0	48	41		
	Christiansund	29.96	44	N.W.	2	bc	29.98	+07	48	45	-5	N.N.E.	2	5	50	45	0.08	
	Skudesnaes ...	29.89	51	N	1	0	29.96	+05	51	48	-1	S.S.E.	2	0	54	45	0.04	
	Christiania Fjord (Fierder)	29.97	53	S.S.E.	3	0	29.99	+04	53	52	+2	N.W.	2	0	54	51		
	Skagen (The Scaw)	29.94	54	S.S.E.	1	bc	29.98	+02	54	49	+2	S.E.	1	0	63	48		
	Fanö ...	29.94	49	Z	0	bc	29.88	-02	58	56	+6	E	4	*	61	48		
BRITISH ISLANDS.	Sumburgh Head	29.76	46	E	4	r	29.83	+08	45	45	-1	S.E.	4	0	6	49	43	0.05
	Stornoway ...	29.52	52	E	3	op	29.63	+07	51	49	+2	S.E.	3	bc	3	53	43	0.05
	Wick ...	29.63	48	S.E.	5	c	29.73	+10	47	46	-2	S.E.	4	op	4	53	44	0.08
	Nairn ...	29.55	55	Z	0	c	29.68	+13	47	46	-1	E.S.E.	1	0	1	55	42	0.06
	Aberdeen ...	29.63	48	S.S.E.	4	bc	29.74	+12	47	46	-3	W	1	op	2	51	41	0.03
	Leith ...	29.61	53	S.W.	4	0	29.72	+19	52	48	+4	E	1	b	*	60	43	0.04
	Shields ...	29.67	55	Z	0	c	29.71	+12	54	50	+3	S.S.W.	2	bc	2	58	46	
	Spurn Head ...	29.71	53	S.E.	4	bcgyp	29.75	+04	52	50	+1	S	2	b	3	60	48	0.06
	York ...	29.69	59	S.S.W.	1	bc	29.74	+08	53	50	+2	S.E.	1	b	*	60	43	
	Loughborough	29.71	57	S.S.E.	2	c	29.75	+06	56	52	+4	S.E.	2	bcw	*	63	42	0.01
GERMANY & HOLLAND.	Ardrossan ...	29.59	50	S.S.W.	1	0	29.65	+15	50	48	0	S.E.	3	c	3	61	35	0.04
	Malin Head ...	29.54	50	N.W.	1	op	29.49	+04	46	45	0	S.S.E.	5	ogp	2	52	42	0.28
	Mullaghmore ...	29.54	48	N.W.	1	0	29.45	-03	47	44	0	S	6	p	4	52	44	0.13
	Belmullet ...	29.50	50	S.S.W.	4	bc	29.60	-04	48	47	0	N.W.	5	0	*	52	43	0.21
	Donaghadee ...	29.60	52	S.W.	3	c	29.65	+17	51	49	+1	S	4	c	2	55	47	0.05
	Liverpool (Bidston)	29.68	52	N.W.	1	0	29.74	+12	55	49	+5	S.E.	1	bc	2	58	46	
	Holyhead ...	29.66	50	S.S.W.	3	bc	29.68	+13	53	50	+4	S	4	cq	4	54	47	
	Parsonstown ...	29.58	47	Z	0	0	29.56	-02	52	49	+5	S.W.	2	0	*	56	42	0.10
	Valencia ...	29.53	51	S.S.E.	6	bcm	29.57	-03	51	48	+1	S.W.	3	b	4	52	47	0.06
	Roche's Point...	29.61	50	S.W.	4	cp	29.62	+02	52	49	+4	S.W.	4	bc	4	56	48	0.15
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.66	50	S.W.	3	bc	29.70	+04	50	50	+1	S	4	cq	3	54	48	
	Scilly ...	29.68	54	S.S.W.	4	bc	29.69	+01	54	54	+4	S	3	b	4	58	50	
	Prawle Point ...	29.73	50	S	2	bc	29.77	+03	51	50	+2	S	2	bcw	1	52	46	
	Jersey (St. Aubin's)	29.73	53	E.S.E.	3	omgr	29.81	+08	54	51	0	W	3	bcm	3	55	45	0.14
	Hurst Castle ...	29.75	58	S	3	c	29.78	+03	54	52	+1	N.W.	2	bc	1	56	50	0.09
	Dungeness ...	29.75	54	E.N.E.	2	c	29.76	-05	54	53	+1	Z	0	m	0	59	51	0.16
	London ...	29.77	54	S	2	0	29.78	+01	53	52	-1	S.S.E.	1	ogt	*	63	48	0.15
	Oxford ...	29.74	53	S.S.E.	2	c	29.77	+03	51	49	-1	S	1	c	*	59	45	0.04
	Cambridge ...	29.75	56	S.W.	2	0	29.77	+01	56	54	+2	S.W.	1	0	*	61	48	0.26
	Yarmouth ...	29.79	52	S	4	b	29.75	-04	53	52	-2	Z	0	om	2	57	49	0.21
GERMANY & HOLLAND.	Cuxhaven ...	29.93	54	N.E.	2	bc	29.89	-02	57	56	+4	E.S.E.	3	m	*	65	53	0.04
	Berlin ...	29.97	67	S.E.	2	b	29.95	-02	66	57	+5	S.E.	3	b	*	77	55	
	Wiesbaden ...	*	*	*	*	*	29.84	-16	63	56	+8	Z	0	b	*	72	54	0.04
	Munich ...	29.95	56	E	2	bc	29.83	-12	57	52	-1	W	5	b	*	68	45	
	The Helder ...	29.88	56	N.E.	1	r	29.78	-07	59	57	+6	S	1	bc	1	59	52	0.04
	Brussels (3 a.m.)	*	*	*	*	*	29.78	-11	60	56	+3	S.S.E.	6	0	*	67	48	0.20
	Cape Gris Nez	29.76	54	N	3	0	29.75	-06	53	52	0	S.W.	1	f	0	61	50	0.24
	Paris ...	29.81	60	Z	0	0	29.83	-08	55	53	+3	S.S.W.	2	bc	*	67	52	0.39
	Brest ...	29.78	61	W	2	b	29.80	+02	52	51	+1	S.W.	2	b	3	64	50	
	Lorient ...	29.75	55	N.W.	3	bc	29.81	+02	53	51	+2	E.S.E.	1	bc	3	59	48	0.85
FRANCE AND BELGIUM.	Rocheport ...	29.87	59	N.W.	4	0	29.88	+04	54	53	-2	S.E.	2	b	*	59	44	0.20
	Belfort ...	?	60	N	3	0	?	?	60	56	-1	S	3	r	*	72	50	0.04
	Lyons ...	29.86	64	?	3	bc	29.87	-12	60	53	+5	E	1	bc	*	70	52	
	Nice ...	30.02	59	S.S.E.	1	c	29.93	-15	56	54	-1	S.W.	1	bc	1	66	52	
	Perpignan ...	29.85	53	S.S.E.	3	0	29.82	-13	59	57	-2	N	1	c	*	75	52	
	Biarritz ...	29.89	59	N.N.E.	3	0	29.78	-07	59	56	+2	S.E.	3	0	2	66	54	0.51
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Lisbon ...	29.89	60	S.W.	6	0	29.90	-09	60	60	+3	S.W.	5	f	4	61	57	0.41

WEATHER CHARTS

for 8 a.m. on Saturday, 30th May, 1891.

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:

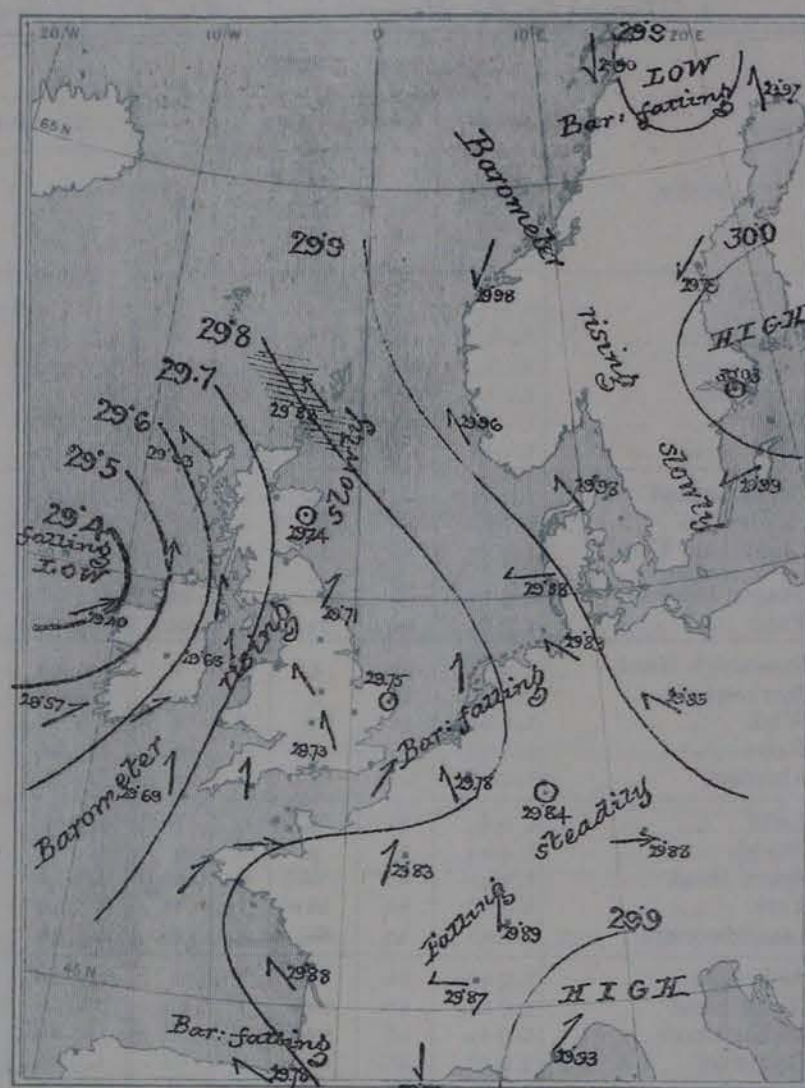
≡ = Rough. ≡ = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of May

During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.879
Stornoway	29.886
Wick	29.901
Nairn	29.908
Aberdeen	29.918
Leith	29.932
Shields	29.943
Spurn Head	29.956
York	29.962
Loughborough	29.973
Ardrossan	29.935
Mullaghmore	29.929
Donaghadee	29.947
Holyhead	29.956
Liverpool	29.961
Parsonstown	29.958
Valencia	29.963
Roche's Point	29.959
Pembroke	29.961
Scilly	29.974
Prawle Point	29.992
Jersey	29.989
Hurst Castle	29.982
Dover	29.970
LONDON	29.981
Oxford	29.981
Cambridge	29.976
Yarmouth	29.967



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.

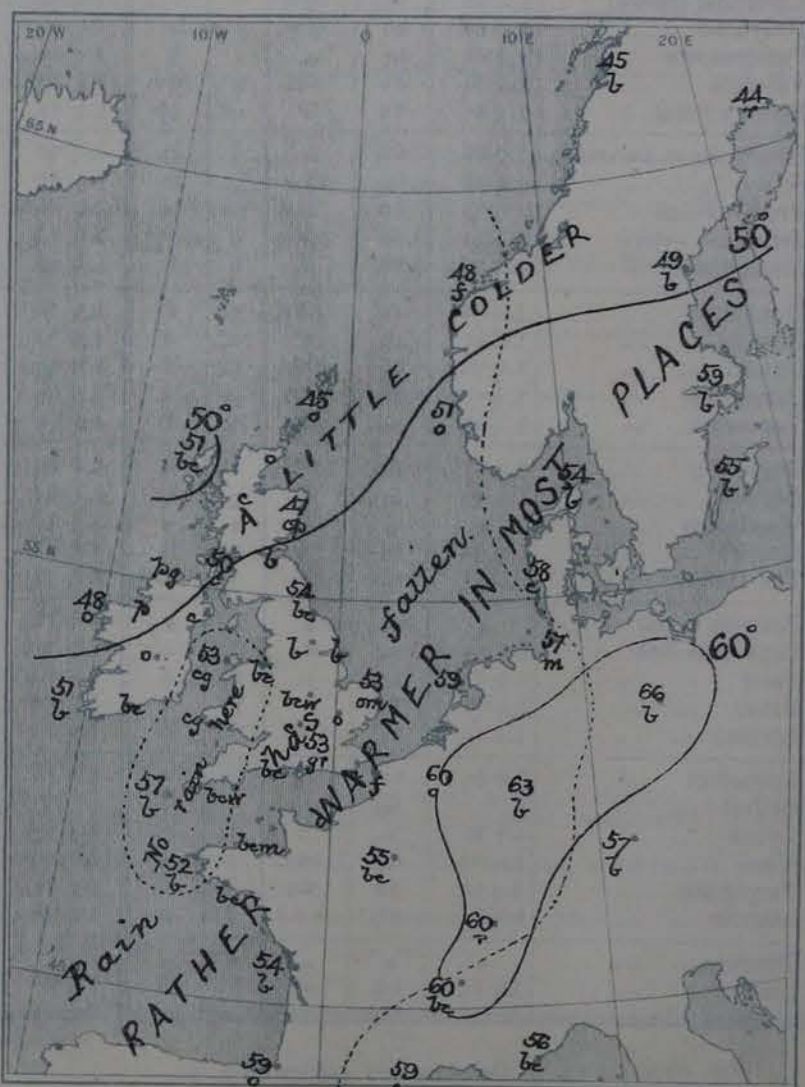
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of May.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	50.3	40.2	46.1	44.0	1.72
Stornoway	53.3	41.1	48.6	46.4	2.61
Wick.....	53.9	40.6	48.1	45.6	1.69
Nairn.....	56.3	42.2	48.6	45.4	1.61
Aberdeen.....	55.0	41.9	48.9	45.4	1.99
Leith.....	57.8	42.4	50.1	45.7	1.67
Shields.....	54.4	42.9	49.0	46.0	1.69
Spurn Head.....	54.3	45.1	49.3	47.2	1.57
York.....	59.6	42.2	49.8	46.7	1.85
Loughborough.....	61.7	42.6	51.1	47.7	2.09
Ardrossan.....	56.5	43.9	49.5	46.7	2.34
Mullaghmore.....	56.7	46.3	50.2	47.4	2.42
Donaghadee.....	56.0	44.2	49.6	47.5	2.26
Holyhead.....	56.2	46.2	50.5	48.0	1.90
Liverpool.....	58.0	45.0	50.8	46.9	1.84
Parsonstown.....	59.5	42.7	51.0	47.8	2.24
Valencia.....	58.1	46.3	52.8	49.7	3.20
Roche's Point.....	58.9	46.2	51.7	48.8	3.14
Pembroke.....	55.0	45.9	49.9	47.7	2.03
Scilly.....	56.3	48.2	52.7	50.3	1.73
Prawle Point.....	58.6	45.3	51.4	49.4	1.66
Jersey.....	59.4	47.2	53.6	50.5	1.87
Hurst Castle.....	58.5	45.7	51.6	49.9	1.78
Dover.....	57.0	46.7	52.5	49.3	1.79
LONDON.....	62.3	44.4	52.5	48.5	1.86
Oxford.....	60.5	43.4	50.6	47.5	1.95
Cambridge.....	62.0	42.0	51.7	48.5	1.90
Yarmouth.....	55.4	44.9	50.6	48.1	1.86

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, 30.0 in. and upwards, over the central parts of Sweden; 29.9 in. and upwards in the south of France and also over the southern part of the Spanish Peninsula.
 Lowest, 29.4 in. and less, in a depression lying off the northwest of Ireland. A subsidiary "hollow" is situated over the Netherlands and the southwest of England.
 Gradients moderate over Ireland, but slight elsewhere.

Barometer falling a little in the extreme northwest of Ireland, as well as over the Netherlands, the south of France, and the north of Scandinavia, but rising elsewhere.

TEMPERATURE

Highest, 66° at Berlin, 63° at Wiesbaden, 60° at Brussels, Belfort, Lyons and Lisbon, and 59° at the Helder, Biarritz and Perpignan.

Lowest 44° at Haparanda, 45° at Rodez and Sumburgh Head, 46° at Malin H., and 47° at Wick, Kinn, Aberdeen, and Mullaghmore.

During yesterday the thermometer rose to 61° at Anderson and Cambridge, and 63° at Loughborough and in London.

WIND

Light or moderate from the SE. over the north and east of Great Britain, as well as on the eastern shore of the North Sea and in the west of France.

Moderate to fresh from the S. or SW. in the west of our Islands.

Light and variable in Scandinavia and also in the south of France.

WEATHER

Cloudy and showery in the northwest and north of our Islands; dull and misty in the southeast of England, with rain in London.

Fine in most other parts of Western Europe, but foggy at Christiansund and also at Lisbon.

Showers fell yesterday in most parts of our area. A solar halo was seen in the afternoon at Mullaghmore.

SEA

Moderate to smooth generally, but rough at Sumburgh H.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Another shallow depression is apparently lying over the northeast of Spain. With the present distribution of pressure this seems likely towards our southern coasts, and the weather over England is therefore likely to remain in a showery, unsettled condition.

FORECASTS

For the 24 hours ending at NOON on 31st May 1891.

DISTRICTS.

FORECASTS.

- | | | |
|---|------------------|--|
| 0 | SCOTLAND NORTH | SE winds, moderate or fresh; cloudy, showery. |
| 1 | SCOTLAND EAST | E and SE winds, light; fair to dull and some rain, heavier locally. |
| 2 | ENGLAND N.E. | |
| 3 | ENGLAND EAST | |
| 4 | MIDLAND COUNTIES | SW to SE winds, light; weather improving today, but becoming unsettled and rainy again tomorrow. |
| 5 | ENGLAND SOUTH | |

DISTRICTS.

FORECASTS.

- | | | |
|----|---------------|---|
| 6 | SCOTLAND WEST | SE and S winds, moderate; changeable, some showers. |
| 7 | ENGLAND N.W. | |
| 8 | ENGLAND S.W. | S winds, light or moderate; fair to showery. |
| 9 | IRELAND NORTH | |
| 10 | IRELAND SOUTH | S and SW winds, fresh; changeable, showery. |

WARNINGS

None issued.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA			BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.						D.	W.	D.	F.		
Skudeanaes ...	29.91	53	49	S	4	O	3			Holyhead ...	29.66	55	48	SSW	4	4
Sumburgh Head ...	29.76	48	47	E	4	O	6			Valencia ...	29.58	52	48	SSW	5	5
Stornoway ...	29.54	51	50	E	4	O	4			Scilly ...	29.68	57	52	SSW	4	4
Aberdeen ...	29.63	51	48	SSE	4	bc	4			Jersey ...	29.78	53	51	SE	3	3
Shields ...	29.63	52	47	S	3	C	2			Dungeness ...	29.62	57	53	SW	3	2
Ardrossan ...	29.54	50	50	SSW	1	O	1			London ...	29.78	60	52	SSE	3	*
Malin Head ...	29.51	50	49	W	3	O	2			Yarmouth ...	29.79	56	52	S	5	4
Mullaghmore ...	29.53	51	49	WNW	2	C	2			Rocheport ...	29.67	56	55	SW	3	*
Belmullet ...	29.52	50	47	SW	2	bc	*									

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

Weather in morning fine and bright over Central Russia and at several of the Baltic stations; also over central and southern Europe (with the Mediterranean) and the southeastern parts of England; cloudy, or overcast, as a rule elsewhere, with showers in the western and northern parts of the British Isles, the northwest of France and at Hermannstadt. Rain later at all our northern and western stations, and also over France and the southeast of England, but amounts not large.

Temperature fallen over northern Europe, but showing a tendency to rise elsewhere. Morning readings 70° or more over Central Russia, at Kiel and St. Petersburg, and exceeding 60° over Eastern Austria, and on the shores of the Adriatic and Mediterranean. Below 50° in the west and north of the British Islands and over Lapland, and as low as 42° at Archangel, 46° at Bodo, Sumburgh Head, and Malin Hd., 47° at Parovatorn, and 48° at Narvik and Leith. Rising later to 60° and more over the central and northern countries of England, and to between 70° and 80° over Germany and the southern part of France.

Wind moderate to fresh from between W. and S. over the English Channel and southern half of our Islands; light to moderate S³ over the northern countries and in Holland, E¹ over Scotland, NE¹ to E¹ over the Gulf of Bothnia. Very light and variable at the Continental and Mediterranean stations as a whole. Becoming S³ over the greater part of our Islands later and freshening at Valencia.

Barometer highest 30.1 in. and more to 30.0 in. over the Mediterranean and Central Europe, as well as over Lapland and the Gulf of Bothnia — a col. lying over the Baltic uniting the two systems; also 30.0 in. and more over Central Russia. Lowest 29.5 in. and less, in a depression over the north of Ireland; 29.8 in. and less, over the Black Sea. No great change later but very shallow local disturbances found in various parts of northwestern 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.

The evening observations are taken at 5 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark the observations are taken at 8 p.m. (Christiania time).

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

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

DAILY WEATHER REPORT.

for Sunday 31st May 1891.
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 12.)	SHADE TEMP.		Amount of Rainfall.	
		Reading at 32° F. and Sea Level.	Dry.	Direc.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...	29.90	44	NNW	2	0	30.04	+ .07	44	41	0	N	6	c	*	48	39	0.04	
	Hernösand ...	29.95	48	SSW	4	0	30.09	+ .10	50	43	+ 1	N	4	c	*	72	39	—	
	Stockholm ...	30.02	59	Z	0	b	30.04	+ .01	66	57	+ 7	W	2	b	*	71	48	—	
	Wisby ...	29.98	55	WNW	2	b	30.01	+ .02	60	53	+ 5	N	4	b	*	64	48	—	
	Bodö ...	30.02	42	N	4	0	30.23	+ .33	43	38	— 2	N	4	c	2	45	37	—	
	Christiansund	30.07	49	NNE	6	c	30.15	+ .17	46	42	— 2	ENE	6	c	3	54	43	—	
	Skudesnaes ...	29.89	36	NE	2	0	30.02	+ .06	53	52	+ 2	Z	0	r	2	55	50	0.08	
	Christiania Fjord (Fierder)	29.98	58	N	2	0	30.02	+ .03	56	52	+ 3	NNE	2	b	1	61	54	—	
	Skagen (The Scaw)	29.99	55	Z	0	b	30.04	+ .06	58	55	+ 4	SSE	1	b	0	66	54	—	
	Fanö ...	29.91	58	Z	0	b	29.97	+ .09	59	55	+ 1	ESE	4	c	*	73	52	0.08	
BRITISH ISLANDS.	Sumburgh Head	29.87	47	SE	4	0	29.97	+ .14	48	48	+ 3	NNE	2	o	5	49	44	0.05	
	Stornoway ...	29.68	54	S	3	0	29.86	+ .23	54	51	+ 3	SE	2	b	2	57	40	—	
	Wick ...	29.82	47	SE	6	0	29.96	+ .23	46	46	— 1	SE	3	m	3	51	44	0.02	
	Nairn ...	29.71	63	SSE	2	b	29.90	+ .22	52	50	+ 5	NE	1	b	1	63	38	—	
	Aberdeen ...	29.82	46	SE	2	om	29.99	+ .25	44	44	— 3	ESE	1	f	3	49	43	0.01	
	Leith ...	29.76	55	Z	0	b	29.92	+ .20	46	46	— 6	NE	1	o	*	60	42	—	
	Shields ...	29.78	54	SE	2	c	29.93	+ .22	46	46	— 8	SSE	2	f	3	60	43	—	
	Spurn Head ...	29.79	53	ESE	2	c	29.92	+ .19	48	47	— 4	ESE	3	f	3	55	47	—	
	York ...	29.79	61	SW	1	o	29.92	+ .18	58	54	+ 5	E	1	b	*	66	48	—	
	Loughborough	29.60	62	SW	2	b	29.90	+ .15	58	54	+ 2	ENE	2	b	*	67	40	—	
GERMANY & HOLLAND.	Ardrossan ...	29.75	53	S	3	b	29.85	+ .20	57	53	+ 7	ENE	3	b	2	57	44	—	
	Malin Head ...	29.64	53	NW	2	b	29.72	+ .23	49	47	+ 3	SE	5	og	2	59	46	0.01	
	Mullaghmore ...	29.64	54	NW	2	c	29.64	+ .19	52	49	+ 5	ESE	6	og	4	57	46	0.06	
	Belmullet ...	29.61	53	SSW	2	b	29.49	+ .09	51	50	+ 3	ESE	8	o	*	53	47	0.15	
	Donaghadee ...	29.72	55	SW	4	b	29.81	+ .16	51	49	0	SSW	5	o	3	58	47	—	
	Liverpool (Bidston)	29.80	56	NNW	1	b	29.85	+ .11	58	53	+ 3	ESE	2	b	2	61	47	—	
	Holyhead ...	29.78	53	SSW	4	c	29.79	+ .11	59	51	+ 6	SE	3	c	2	59	45	—	
	Parsonstown ...	29.68	53	Z	0	r	29.61	+ .05	55	51	+ 3	SE	2	o	*	61	50	0.09	
	Valencia ...	29.57	53	SE	6	r	29.38	— .19	50	52	+ 2	SE	8	r	7	55	50	1.03	
	Roche's Point...	29.68	53	S	5	c	29.52	— .10	52	51	0	SE	8	p	5	57	50	0.20	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.79	50	S	2	b	29.73	+ .03	53	52	+ 3	ESE	6	c	4	55	48	—	
	Scilly ...	29.73	55	SSE	4	b	29.62	— .07	53	52	— 4	SE	6	r	5	59	51	0.07	
	Prawle Point ...	29.83	52	SSE	1	b	29.80	+ .03	52	50	+ 1	ESE	3	cm	2	54	48	—	
	Jersey (St. Aubin's)	29.84	58	E	2	b	29.84	+ .03	59	55	+ 5	ESE	3	cm	3	60	52	—	
	Hurst Castle ...	29.85	54	WSW	3	b	29.87	+ .09	59	55	+ 5	SE	3	b	1	59	46	—	
	Dungeness ...	29.82	54	SW	3	c	29.92	+ .16	50	53	+ 2	ENE	2	m	1	59	47	—	
	London ...	29.81	62	SSW	1	b	29.91	+ .13	60	54	+ 7	SSE	2	b	*	65	44	0.01	
	Oxford ...	29.84	58	SSW	1	b	29.90	+ .13	58	50	+ 7	SE	2	b	*	65	45	—	
	Cambridge ...	29.82	60	SW	1	c	29.93	+ .16	59	58	+ 3	S	1	b	*	65	44	—	
	Yarmouth ...	29.83	53	SSE	1	b	29.95	+ .20	49	48	— 4	SSE	3	f	3	55	45	—	
PENINSULA.	Cuxhaven ...	29.84	59	ESE	3	r	29.92	+ .03	57	56	0	E	3	b	*	72	56	0.16	
	Berlin ...	29.87	68	ESE	1	b	29.92	— .03	62	57	— 4	SE	2	b	*	77	55	—	
	Wiesbaden ...	*	*	*	*	*	29.94	+ .10	60	56	— 3	W	1	b	*	68	50	—	
	Munich ...	29.89	59	W	2	c	29.98	+ .10	57	53	0	W	4	c	*	64	52	—	
	The Helder ...	29.88	56	W	1	c	29.97	+ .19	57	51	— 8	NN	1	f	1	61	50	—	
	Brussels (9 a.m.)	*	*	*	*	*	29.96	+ .18	59	57	— 1	NNW	1	b	*	64	48	0.12	
	Cape Gris Nez	29.83	52	WSW	3	b	29.90	+ .15	57	53	+ 4	SE	2	b	1	59	46	—	
	Paris ...	29.86	63	S	1	b	29.94	+ .11	57	54	+ 2	NE	1	b	*	68	44	—	
	Brest ...	29.84	57	S	3	b	29.76	— .04	54	51	+ 2	SE	4	b	4	61	48	—	
	Lorient ...	29.84	57	Z	0	b	29.79	— .02	56	54	+ 3	SE	3	b	2	59	50	—	
PENINSULA.	Rochefort ...	29.80	64	NW	3	b	29.84	— .04	56	55	+ 2	SE	3	b	2	70	45	—	
	Belfort ...	29.72	62	N	3	c	29.72	?	59	55	— 1	NE	2	b	*	68	47	—	
	Lyons ...	29.86	60	S	2	0	29.94	+ .07	58	53	— 2	WSW	1	b	*	66	50	—	
	Nice ...	29.91	56	NE	1	c	29.93	— .00	57	54	+ 1	NE	2	b	1	64	50	0.04	
	Perpignan ...	29.78	60	NE	4	0	29.95	+ .13	59	57	0	E	2	o	*	71	52	0.75	
	Biarritz ...	29.80	68	ENE	1	b	29.82	+ .04	66	58	+ 7	S	2	c	2	75	57	0.04	
	Corunna ...	*	*	*	*	*	29.67	— .05	60	57	— 2	SW	1	r	2	68	57	0.39	
	Lisbon ...	29.94	61	SW	5	0	29.87	— .03	62	60	+ 2	SSW	5	o	4	64	60	—	

For Explanation of Columns, see bottom of p. 4.

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

WEATHER CHARTS

for 8 a.m. on Sunday, 31st May, 1891.

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:

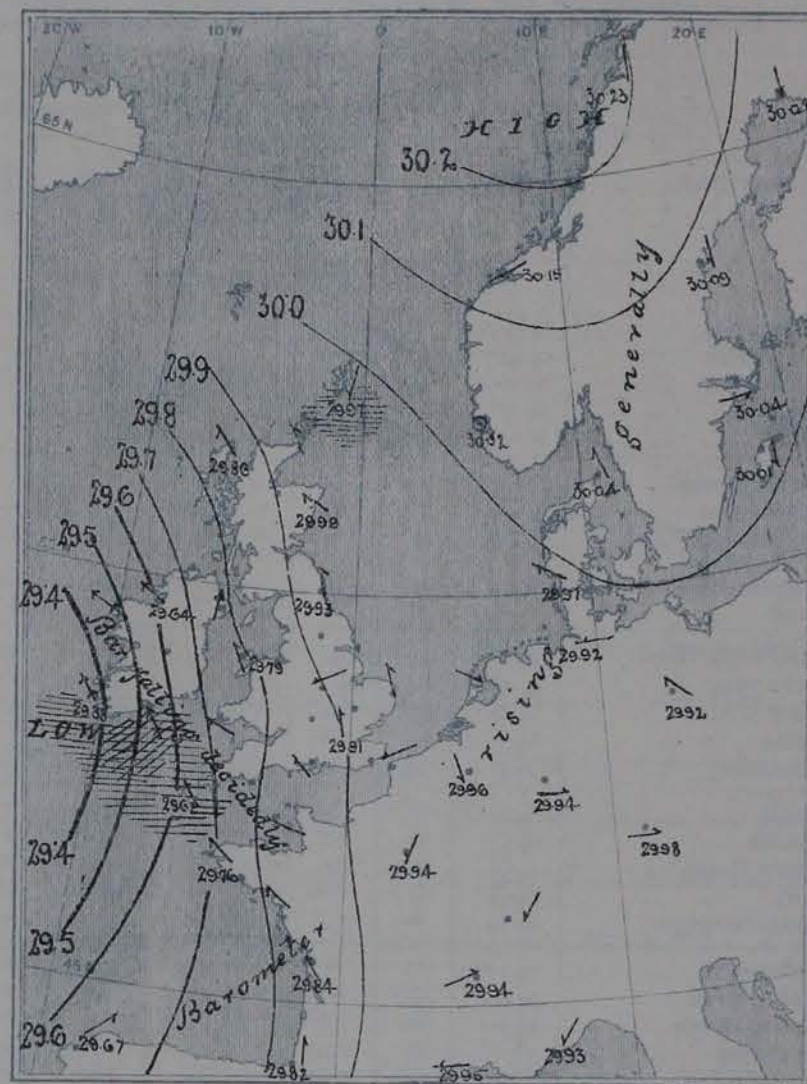
≡ = Rough, ≡ = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of May

During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.879
Stornoway	29.886
Wick	29.901
Nairn	29.908
Aberdeen	29.918
Leith	29.932
Shields	29.943
Spurn Head	29.956
York	29.962
Loughborough	29.973
Ardrossan	29.935
Mullaghmore	29.929
Donaghadee	29.947
Holyhead	29.956
Liverpool	29.961
Parsonstown	29.958
Valencia	29.963
Roche's Point	29.959
Pembroke	29.961
Seilly	29.974
Prawle Point	29.992
Jersey	29.989
Hurst Castle	29.982
Dover	29.970
LONDON	29.981
Oxford	29.981
Cambridge	29.976
Yarmouth	29.967



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.2 in. and upwards, in an anticyclone lying off the northwest of Norway;
Lowest, 29.4 in. and less, in a depression lying off the southwest of Ireland.
Gradients moderate to rather steep in the west and south of our Islands, but slight elsewhere.
Barometer falling on our southern coasts and also in the northwest of France, but rising elsewhere.

TEMPERATURE

Highest, 66° at Stockholm and Vienna, 62° at Berlin and Lisbon, and 60° at Wiesbaden, London, Wiesbaden, and Comma.
Lowest, 43° at Bodo, 44° at Haparanda and Aberdeen, and 46° at Christiansund, Wick, Leith and Shields.
During yesterday the thermometer rose to 67° at Loughborough, to 66° at York, and to 65° at several other of the English stations.

WIND

SE in our Islands and the west of France; strong to a gale on our extreme west and southwest coasts, but light in force over the eastern part of the Kingdom.
Light and variable over Germany and the Netherlands, E in Denmark, N over the northern parts of Scandinavia.

WEATHER

Rainy in the extreme southwest of our Islands, and dull in the north of Ireland.
Fine in most other parts of Western Europe, but foggy on the east and southeast coasts of Great Britain.
Heavy rain has fallen in the south of Ireland, the amount measured at Valentia Island being as much as 1.0 in.

SEA

High at Valentia Island and rather rough on other parts of our southwest coasts, as well as at Sumburg H.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 1st JUNE, 1891.

DISTRICTS.

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

FORECASTS.

None issued

DISTRICTS.

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

WARNINGS

FORECASTS.

None issued

The SOUTH CONE was hoisted last evening in district 10 and part of 8, and this morning in parts of 5, 7, and the remainder of 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:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.94	54	51	NNE	1	r	3		Holyhead ...	29.75	56	51	SSW	4	bc
Sumburgh Head ...	29.87	49	47	SE	4	r	6		Valencia ...	29.62	55	52	SSE	5	o
Stornoway ...	29.65	57	52	SE	3	b	3		Scilly ...	29.74	58	55	S	4	bc
Aberdeen ...	29.79	49	48	SE	3	a	3		Jersey ...	29.84	57	53	E	3	bc
Shields ...	29.74	55	51	SE	3	c	3		Dungeness ...	29.81	56	54	WSW	2	c
Ardrossan ...	29.71	54	52	S	3	e	2		London ...	29.80	59	55	L	0	omg
Malin Head ...	29.55	57	48	S	6	c	3		Yarmouth ...	29.79	54	52	NE	2	bc
Mullaghmore ...	29.59	57	48	S	6	cr	4		Rocheport ...	29.80	66	60	NW	3	bc
Belmullet ...	29.56	52	49	SW	5	bc	*								

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

Weather in morning fine and bright at the majority of the stations situated in Russia, central and southern Europe as well as over the eastern and north midland counties of England, cloudy and unsettled elsewhere, with rain in several parts of our Islands (most in the west), as well as in some parts of Spain, Hungary, and Lapland; lightning at Odessa. Rain in Ireland and some part of Scotland, England, Holland, and France later as well as in southern Russia; fog and gloom in the east of England.

Temperature not changing much. Morning readings ranging from 65° to 72° over central and southern Russia, and exceeding 60° on the southern and western shores of the Mediterranean generally, as well as at Berlin, Leningrad and Helsingfors; below 50° in the extreme northwest and north of our Islands and over the northern parts of Scandinavia and Russia, and as low as 35° at Archangel, 44° at Haparanda, 45° at Sumburgh Hd., and 46° at Malin Hd. Rising to between 60° and 67° over England later to 70° and more over Sweden, Germany, Austria and Italy, to 80° at Kharkov and to between 70° and 86° over Algeria.

Wind moderate to strong from SW and S at our western stations, moderate SE in Scotland, as well as over the North Sea and Germany; very variable elsewhere, and of little strength, but mainly SW over the Iberian Peninsula. The SE wind over Caithness, and the SW wind over the Peninsula both becoming strong later.

Barometer highest 30.1 ins. and more to 30.0 ins. over the White Sea and north of Russia. 30.1 ins. to 29.9 ins. over Algeria and the southern half of Spain; 30.0 ins. and more near Stockholm. Lowest 29.4 ins. and less, in a depression off our extreme northwestern coasts; 29.7 ins. and less over the southwest of Russia, and distribution of pressure irregular over the northern half of Europe generally. New anticyclone forming over the northwest of Norway later; depression off our northwest coast apparently filling up, but a new one approaching Valencia.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

* AN ASTERISK is inserted in all places for which information is not usually received.
The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark the observations are taken at 8 p.m. (Christiania time).

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

„ Weekly „ „ „ „ £1 10 0 „

ADDITIONS AND CORRECTIONS TO THE

1. REPORTS RECEIVED TOO LATE FOR INSERTION DAILY.

DATE.	STATIONS.	YESTERDAY EVENING.						8 A.M. TO-DAY.										PAST 24 HOURS.		
		Barometer at 29° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	SHADE TEMP.			WIND.		Weather.	Sea (0 to 3.)	SHADE TEMP.		Amount of Rainfall.		
				Dir.	Force (0 to 12.)				Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force (0 to 12.)			Max.	Min.			
1	Brussels	*	*	*	*	*	29.81	-01	59	-	+6	S	5	0	*	61	50	-		
	Corunna	*	*	*	*	*	29.91	-11	64	59	+2	SW	5	6	5	68	54	-		
2	Corunna	*	*	*	*	*	29.89	-02	60	55	-4	S	4	0	5	66	54	0	08	
4	Brussels	*	*	*	*	*	30.02	+05	49	-	+1	WNW	3	6	*	58	39	-		
	Corunna	*	*	*	*	*	30.04	+10	59	53	+1	N	2	0	4	64	39	-		
5	The Helder	30.12	46	NW	1	b	30.23	+29	47	-	-1	NE	2	0	2	52	45	-		
	Corunna	*	*	*	*	*	30.04	00	60	56	+1	N	2	0	2	63	43	-		
6	Lyon	29.94	60	ESE	2	+	30.00	+03	53	51	0	ESE	1	0	*	68	51	0	28	
	Corunna	*	*	*	*	*	30.13	+06	58	55	-2	NE	1	0	3	63	43	-		
7	Corunna	*	*	*	*	*	30.06	-04	60	56	+2	N	2	0	2	64	45	-		
9	Munich	29.61	53	N	3	0	29.56	-12	52	-	-4	E	4	0	*	59	50	0	16	
	The Helder	29.69	51	NE	1	c	29.69	+01	49	-	-1	NE	2	f	2	55	48	-		
10	Kiesbaden	*	*	*	*	*	29.54	00	64	-	+9	NE	2	6	*	?	54	-		
11	The Helder	29.60	45	NW	2	b	29.75	+05	45	-	-5	SW	1	0	2	50	43	0	20	
	Corunna	*	*	*	*	*	30.11	+10	56	55	0	N	4	0	3	63	52	-		
12	Corunna	*	*	*	*	*	30.08	-03	59	57	+3	NNE	5	6	3	63	52	-		
13	Corunna	*	*	*	*	*	30.11	+03	66	60	+7	NNE	2	6	0	68	48	-		
14	Corunna	*	*	*	*	*	30.04	-04	64	62	-2	N	4	6	4	72	54	-		
15	Corunna	*	*	*	*	*	30.01	-03	58	55	-6	NNE	6	0	5	66	54	-		
18	Brussels	*	*	*	*	*	29.51	-21	42	-	0	SSW	6	+	*	48	36	0	08	
	Corunna	*	*	*	*	*	29.73	-40	56	54	-3	SW	5	+	5	63	50	0	04	
19	Corunna	*	*	*	*	*	29.78	+05	56	54	0	SSW	3	+	6	59	48	0	59	
20	Corunna	*	*	*	*	*	29.63	+15	54	54	+1	SW	2	+	4	63	55	1	14	
21	Corunna	*	*	*	*	*	29.53	-10	48	48	-9	N	2	+	4	64	46	0	55	
22	Biarritz	29.70	53	NW	8	0	29.82	+29	50	-	-12	SE	3	6	3	73	46	0	08	
	Corunna	*	*	*	*	*	29.59	+06	52	50	+4	NNE	2	+	3	59	46	0	04	
23	Biarritz	29.62	62	E	2	0	29.67	-15	56	-	+6	N	6	0	2	70	?	0	08	
	Corunna	*	*	*	*	*	29.97	+38	57	53	+5	NW	3	0	3	59	46	0	63	
25	Berlin	29.71	65	Z	0	b	29.74	+01	58	-	+3	N	2	0	*	70	54	-		
	Kiesbaden	*	*	*	*	*	29.79	+08	58	-	+3	SW	3	0	*	64	54	-		
	Munich	29.54	53	SW	3	c	29.91	-	58	-	-	SE	3	6	*	63	43	-		
	Corunna	*	*	*	*	*	30.06	+10	55	53	-2	SW	3	0	3	61	50	0	39	
26	Corunna	*	*	*	*	*	30.08	+02	59	55	+4	N	2	6	3	64	45	-		
29	Corunna	*	*	*	*	*	29.84	-02	60	58	-1	SW	1	0	5	64	52	0	08	
30	Corunna	*	*	*	*	*	29.72	-12	62	58	+2	SW	2	6	3	64	48	0	28	

2. CORRECTIONS.

[illegible]