

DAILY WEATHER REPORT

METEOROLOGICAL OFFICE,
LONDON.

DAILY WEATHER REPORTS.

1ST JANUARY-30TH JUNE,
1890.

Sec. Reg. Lond.

DAILY WEATHER REPORT

January to June 1890.



DAILY WEATHER REPORT.

for Tuesday 17th April.

1890.

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. (6 to 12.)	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 ...																		
Hernösand ...																		
Stockholm ...	29.87	35	NNW	2	bc	29.97	+0.20	35	31	-4	NNW	4	bc	*	43	32	—	
Wisby ...	29.91	35	NNW	4	bc	29.94	+0.21	36	33	-1	N	6	bc	*	43	34	—	
Bodö ...	29.88	30	NW	6	o	29.92	+0.17	30	28	-1	N	0	o	o	37	27	—	
Christiansund ...	30.10	36	WNW	6	bc	30.09	+0.13	36	35	-3	S	4	o	4	37	34	0.08	
Skudesnaes ...	30.16	39	NNW	8	bc	30.21	+0.15	40	35	-2	NNW	6	c	4	45	36	—	
Christiania Fjord ...	30.00	41	NNW	3	bc	30.12		37	33		N	4	bc	1	46	36	—	
(Færder)																		
Skagen (The Scaw)	30.03	40	N	1	bc	30.08	+0.22	40	39	0	NNE	1	bc	0	46	34	—	
Fanö ...	30.08	38	NW	4	bc	30.17	+0.18	39	37	-3	NW	4	c	*	46	36	—	
Sumburgh Head ...	30.28	40	N	1	o	30.14	-0.10	43	40	+6	SSE	2	c	2	43	35	—	
Stornoway ...	30.24	44	S	2	bc	30.09	-0.20	46	45	+13	SW	5	o	5	46	32	—	
Wick ...	30.28	40	S	0	bc	30.17	-0.14	44	43	+4	SW	2	o	1	47	36	—	
Nairn ...	30.27	44	SSE	1	bc	30.18	-0.13	43	40	+2	WSW	1	c	1	49	29	—	
Aberdeen ...	30.33	40	SSE	2	bc	30.24	-0.07	42	39	+1	S	1	bcw	1	46	36	—	
Leith ...	30.30	45	E	2	bc	30.28	-0.02	38	37	-1	W	1	bc f	*	50	31	—	
Shields ...	30.33	43	NNE	2	bc	30.33	+0.05	35	34	-10	W	2	c	2	49	32	—	
Spurn Head ...	30.32	43	NNE	2	o	30.37	+0.11	40	38	-5	NW	3	o	3	48	37	—	
York ...	30.33	47	E	1	o	30.37	+0.08	31	31	-11	SSE	1	bc	*	50	28	—	
Loughborough ...	30.31	47	NE	2	c	30.40	+0.11	28	28	-10	ENE	1	f	*	55	26	—	
BRITISH ISLANDS.																		
Ardrrossan ...	30.28	49	W	1	bc	30.28	-0.01	42	40	-1	NE	1	om	2	55	37	—	
Malin Head ...	30.24	46	E	2	bc	30.20	-0.09	43	43	+1	SSE	4	om	1	48	41	—	
Mullaghmore ...	30.23	51	S	0	bc	30.24	-0.04	48	44	+7	SSE	1	om	1	52	40	—	
Belmullet ...	30.21	52	NNW	1	bc	30.22	-0.03	49	48	+5	SW	2	o	*	57	43	—	
Donaghadee ...	30.28	46	SE	2	bc	30.29	0.00	42	42	0	SPW	2	m	0	58	40	—	
Liverpool (Bidston) ...	30.29	48	E	3	c	30.35	+0.07	42	38	+1	SE	1	bc	2	53	36	—	
Holyhead ...	30.26	49	E	1	bc	30.32	+0.07	45	42	+1	SPW	2	bcw	1	56	42	—	
Parsonstown ...	30.23	55	S	0	bc	30.29	+0.03	43	40	+4	S	0	bc	*	59	37	—	
Valencia ...	30.20	53	SSE	4	bc	30.27	+0.07	50	46	+2	E	1	om	2	58	43	—	
Roche's Point ...	30.24	48	SSE	2	bc	30.29	+0.07	45	43	0	E	1	bc	3	52	39	—	
Pembroke (St. Ann's Hd.) ...	30.23	49	SSE	2	bc	30.32	+0.10	42	41	-1	SSE	3	bc	2	54	40	—	
Scilly ...	30.15	50	E	5	bc	30.24	+0.14	46	43	-3	E	6	bc	3	53	43	—	
Prawle Point ...	30.21	46	E	3	bc	30.31	+0.13	43	41	-5	ENE	4	bc	3	52	41	—	
Jersey (St. Aubin's) ...	30.15	50	ENE	5	bc	30.27	+0.13	45	42	-3	E	5	bcw	4	56	42	—	
Hurst Castle ...	30.24	48	NE	4	bc	30.35	+0.14	41	40	-4	ENE	4	c	3	55	39	—	
Dungeness ...	30.23	44	ENE	5	bc	30.32	+0.12	43	38	-4	ENE	4	c	3	50	40	—	
London ...	30.25	46	ENE	2	bc	30.37	+0.13	41	37	-5	NNE	1	bc	*	54	36	—	
Oxford ...	30.31	42	NE	3	bc	30.39	+0.12	36	35	-4	NE	1	o	*	53	30	—	
Cambridge ...	30.30	45	NE	2	c	30.39	+0.01	40	38	-3	S	0	o	*	50	30	—	
Yarmouth ...	30.28	44	NNE	3	bc	30.35	+0.13	41	38	-2	S	0	bc	2	47	39	—	
GERMANY & HOLLAND.																		
Cuxhaven ...	30.10	41	NW	5	o	30.21	+0.17	41	39	0	NNW	4	o	*	45	41	—	
Berlin ...	30.10	42	WNW	4	T	30.21	+0.14	38	37	-3	WNW	4	bc	*	50	34	0.04	
Wiesbaden ...						30.28	+0.14	40	36	-4	N	1	bc	*	54	36	—	
Munich ...						30.21	+0.13	38	34	-11	NW	3	bc	*	50	32	0.04	
The Helder ...	30.07	44	S	0	o	30.21	+0.13	38	34	-11	NW	3	bc	*	50	32	0.04	
Brussels (9 a.m.) ...	30.26	41	N	1	bc	30.33	+0.16	41	38	0	N	1	c	2	45	41	—	
Cape Gris Nez ...						30.34		41	37		ENE	3	o	*	51	35	—	
Paris ...		43	E	5	o			39	38	-4	E	3	c	2	48	36	—	
Brest ...	30.13	50	NNE	4	bc	30.26	+0.13	37	35	-8	NNE	2	bc	*	60	35	—	
Lorient ...	30.04		ENE	5	bc	30.15	+0.11	43	41	-3	E	3	bc	3	66	39	—	
Rochefort ...	30.01	58	ENE	4	bc	30.14	+0.14	43	40	-6	ENE	4	bc	2	61	35	—	
Belfort ...	29.99	62	ENE	4	c	30.08	+0.08	46	45	-4	ENE	5	bc	*	73	39	—	
Lyons ...	29.96	43	E	1	bc	30.10	+0.09	42	34	-8	N	1	bc	*	67	41	—	
Nice ...	29.94	61	N	2	bc	30.08	+0.07	42	39	-4	N	2	bc	*	70	40	—	
Perpignan ...	29.95	50	SW	1	bc	29.95	-0.05	48	47	+1	E	2	bc	0	61	45	—	
Biarritz ...	29.95	54	E	1	o	29.97	-0.02	48	48	-4	SW	1	o	*	64	42	—	
Corunna ...	29.91	61	NNE	2	bc	29.97	+0.10	54	53	-7	SE	2	c	1	70	52	—	
Lisbon ...																		
	29.86	55	WSW	2	bc	29.82	+0.01	50	50	-3	NNE	3	o	9	59	50	0.20	

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

1st April,

1890.

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:

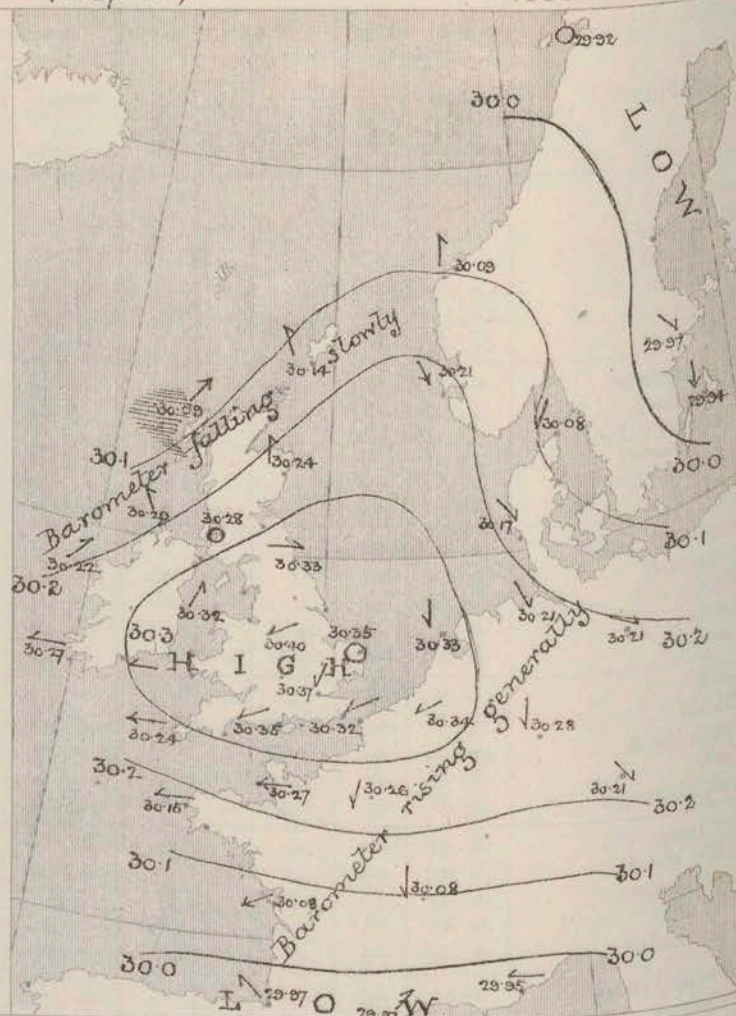
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of April.

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.849
Stornoway	29.821
Wick	29.853
Nairn	29.853
Aberdeen	29.802
Leith	29.865
Shields	29.870
York	29.877
Loughborough	29.878
Ardrossan	29.857
Donaghadee	29.853
Holyhead	29.851
Liverpool	29.864
Parsonstown	29.853
Valencia	29.895
Roche's Point	29.838
Pembroke	29.844
Sally	29.849
Jersey	29.807
Hurst Castle	29.867
Dover	29.866
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.876



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.

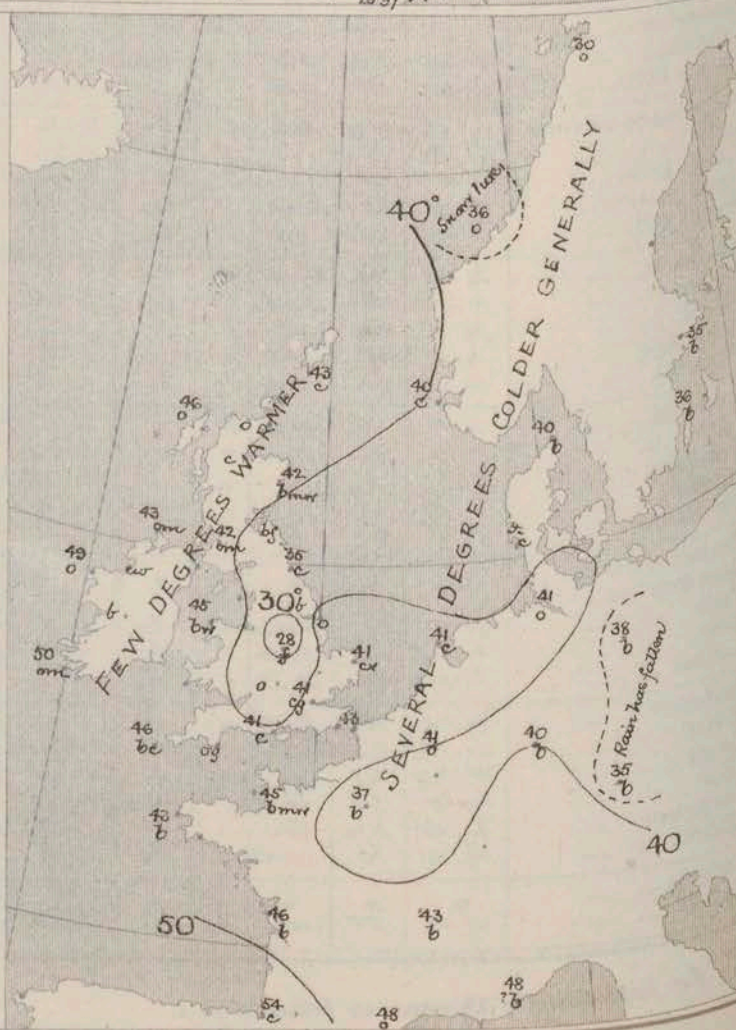
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of April.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head.....	46.3	37.3	41.9	40.5	2.16
Stornoway	49.3	37.5	44.1	42.3	2.51
Wick	49.2	37.4	43.2	41.2	1.56
Nairn	51.5	37.9	43.1	40.6	1.23
Aberdeen	49.6	38.5	43.4	40.9	2.23
Leith	52.6	38.2	44.2	42.1	1.65
Shields	49.2	39.2	43.8	41.7	1.94
York	54.1	37.8	44.1	42.0	1.86
Loughborough	55.7	38.2	45.1	42.6	1.77
Ardrossan	52.1	39.0	44.6	42.2	2.23
Donaghadee.....	51.3	40.1	44.8	43.2	2.02
Holyhead.....	51.9	42.4	46.2	44.2	1.86
Liverpool	53.0	40.7	45.5	42.6	1.56
Parsonstown	55.0	38.3	45.7	43.0	2.15
Valencia	54.3	42.9	48.4	45.9	4.01
Roche's Point	54.2	42.4	47.0	44.9	3.43
Pembroke	50.8	42.1	45.6	43.6	2.10
Sally	52.5	45.0	49.0	47.1	2.45
Jersey	54.6	43.6	49.0	46.4	2.04
Hurst Castle	52.3	41.4	45.9	44.6	1.87
Dover	51.5	42.4	47.1	44.5	1.81
LONDON	56.7	49.0	46.8	43.8	1.86
Oxford	55.1	39.3	45.0	42.7	1.79
Cambridge	56.2	37.7	45.5	43.3	1.76
Yarmouth	49.5	40.4	45.1	43.4	1.80

NOTE.—The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 20 years 1866-85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.3 ins. and upwards over England, Holland and the southern parts of the North Sea.
Lowest 29.9 ins. and less in Portugal; 30.0 ins. and less in Sweden and the North of Norway.
Gradients slight. *Barometer* falling in Scotland and the west of Norway, but rising elsewhere.

TEMPERATURE

Highest 54° at Biarritz, 50° at Valencia and Lisbon, 49° at Belmullet, 48° at Mullaghmore, Perpignan & Nice.
Lowest 28° at Loughborough, 30° at Bodø, 31° at York, 35° at Stockholm, Shields and Munich, and 36° at Christiansund, Wisby and Oxford.

WIND

Frost occurred last night over the inland parts of England; in London the thermometer on the grass fell to 22° E⁴ or NE⁴ over France and the southern parts of the United Kingdom; strong in force at the mouth of the Channel.

WEATHER

Light to fresh from the S⁴ or SW⁴ in the north of our Islands.
 Moderate from the NW⁴ or N⁴ over Denmark, Germany and the south of Scandinavia.

SEA

Fair generally, but dull in some localities, and foggy in others.

Slight rain fell yesterday at some of the German stations, and snow at Christiansund.

Rather rough at Stormoway, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone over our Islands will probably continue to move slowly in a southerly or southeasterly direction, and the SW⁴ breezes in the north are therefore likely to extend. In the extreme south, however, the E⁴ wind will probably continue for a time.

FORECASTS

For the 24 hours ending at NOON on 2nd April 1890.

DISTRICTS.

FORECASTS.

0 SCOTLAND

NORTH

SW⁴ winds, fresh or strong, cloudy, some rain.

1 SCOTLAND

EAST

SW⁴ winds, light or moderate; fair generally.

2 ENGLAND

N.E.

3 ENGLAND

EAST

Light variable airs; fair generally.

4 MIDLAND

COUNTIES

5 ENGLAND

SOUTH

Light breezes, chiefly E⁴; fair generally.

DISTRICTS.

FORECASTS

6 SCOTLAND

WEST

7 ENGLAND

N.W.

SE⁴ and SW⁴ winds, light; fair generally.

8 ENGLAND

S.W.

E⁴ and SE⁴ winds; fresh; fair generally.

9 IRELAND

NORTH



10 IRELAND

SOUTH

SE⁴ winds, freshening; cloudy, rain locally.

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	45	41	NNW	7	b	4			Holyhead ...	30.26	52	47	N	1	b
Sumburgh Head ...	30.27	41	38	NNW	2	c	2			Valencia ...	30.20	57	51	SSE	3	b
Stornoway ...	30.27	46	42	S	2	b	3			Scilly ...	30.14	52	49	E	5	b
Aberdeen ...	30.32	44	39	ESE	2	b	3			Jersey ...	30.15	56	49	E	5	b
Shields ...	30.34	45	43	NNW	2	c	2			Dungeness ...	30.22	48	43	ENG	4	c
Ardrossan ...	30.28	54	47	W	2	b	1			London ...	30.27	49	45	E	2	c
Malin Head ...	30.27	48	46	E	3	b	1			Yarmouth ...	30.27	47	45	NNE	3	b
Mullaghmore ...	30.26	51	47	N	3	b	2			Rochefort ...	30.04	73	66	E	3	c
Belmullet ...	30.26	57	54	SW	2	b	*									

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

Weather cloudy and showery (snow or rain) over the northern half of Russia, Finland and some parts of Scandinavia, very slight showers in the east of Scotland also, fine and bright over western, southern and southeastern Europe. Slight cold showers in certain northern localities and some parts of Germany later, fine and dry weather elsewhere.

Temperature falling in most places; morning readings ranging between 50° and 64° at the Mediterranean stations and on the coasts of the Spanish Peninsula, below 50° over the United Kingdom and the northern parts of Germany and France, below 40° over northern Europe, and below the freezing point in Finland, and at Archangel; lowest of all 27° at Uleaborg. Daily maxima 50° to 58° over our Islands later, and exceeding 70° in the southwest of France.

Wind very light and variable from between N. and E. over the United Kingdom. Moderate N² to NW² over Scandinavia and the Baltic, NW² to W² over Austria and southern Russia, NE² to E² over France and Spain. Drawing round to S. in the extreme west of Ireland later, not much change elsewhere.

Barometer highest 30.3 ins. to 30.1 ins. in an anticyclone lying over the British Islands, North Sea and Netherlands, and exceeding 30.0 ins. over the southeast of France and the Mediterranean, lowest 29.3 ins. and less in a large depression lying over the northern half of Russia, and apparently below 29.9 ins. off the coast of Portugal. Hardly any change over western Europe later, but barometer rising over Scandinavia.

EXPLANATION OF 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).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

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for *Wednesday, 2nd April, 1890.*
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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.				
	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.	Amount of Rainfall.		
SCANDINAVIA.																		
Haparanda ...	29.91	22	Z	0	b	29.94	+17	14	13	-10	Z	0	b	*	32	?	-	
Hernösand ...	29.98	30	Z	0	a	30.01		39	36		MMW	4	b	*	41	27	-	
Stockholm ...	30.09	36	MMW	2	0	30.12	+15	37	35	+2	W	2	c	*	41	32	-	
Wisby ...	30.02	36	MMW	4	bc	30.07	+13	36	34	0	N	4	b	*	41	34	-	
Bodö ...	29.80	31	SE	4	0	29.84	-05	39	34	+9	SW	4	0	2	?	24	0.04	
SCANDINAVIA.																		
Christiansund ...	30.06	41	MSW	5	bc	30.06	-03	43	40	+7	S	2	0	3	43	*	-	
Skudesnaes ...	30.18	41	MMW	1	0	30.17	-04	42	39	+2	E	2	0	3	45	39	-	
Christiania Fjord (Færder) ...	30.11	39	MSW	2	b	30.17	+05	36	33	-1	MMW	3	b	1	45	36	-	
Skagen (The Sea) ...	30.10	40	N	1	b	30.16	+08	40	38	0	S	1	b	1	45	32	-	
Fanö ...	30.21	39	MMW	4	c	30.20	+03	40	39	+1	MMW	4	c	*	43	34	-	
SCANDINAVIA.																		
Sumburgh Head ...	30.04	46	MSW	3	0	30.10	-04	46	46	+3	MSW	1	0	2	47	40	0.01	
Stornoway ...	30.08	51	SW	2	c	30.07	-02	48	47	+2	S	3	b	3	51	44	-	
Wick ...	30.11	48	SW	1	b	30.12	-05	50	47	+6	SW	1	b	1	54	38	-	
Nairn ...	30.14	52	W	1	0	30.14	-04	44	42	+1	S	1	b	1	59	36	-	
Aberdeen ...	30.14	54	SW	1	c	30.17	-07	48	45	+6	MSW	1	bm	1	58	41	-	
SCANDINAVIA.																		
Leith ...	30.20	54	W	3	b	30.19	-09	41	40	+3	Z	0	bly	*	59	34	-	
Shields ...	30.23	52	Z	0	b	30.18	-15	43	41	+8	SW	1	m	2	56	34	-	
Spurn Head ...	30.29	44	SE	3	bc	30.21	-16	40	38	0	SSW	2	bm	1	46	35	-	
York ...	30.29	50	S	1	b	30.24	-13	36	34	+5	SSE	1	b	*	55	30	-	
Loughborough ...	30.30	48	ESE	1	b	30.24	-16	32	31	+4	Z	0	bm	*	56	26	-	
SCANDINAVIA.																		
Ardrossan ...	30.21	49	SW	2	b	30.18	-10	43	41	+1	ESE	1	bmw	1	51	38	-	
Malin Head ...	30.19	51	W	2	cm	30.12	-08	44	42	+1	SSE	3	bm	1	55	41	-	
Mullaghmore ...	30.19	52	MMW	1	b	30.10	-14	45	41	-3	ESE	5	b	3	59	44	-	
Belmullet ...	30.18	51	SW	2	b	30.07	-15	43	42	-6	SE	2	b	*	54	41	-	
Donaghadee ...	30.23	50	SSW	3	b	30.18	-11	45	44	+3	ESE	2	m	0	58	42	-	
SCANDINAVIA.																		
Liverpool (Bidston) ...	30.27	47	MMW	1	bc	30.20	-15	40	37	-2	SE	2	b	3	55	35	-	
Holyhead ...	30.26	47	Z	0	b	30.16	-16	44	42	-1	NE	1	bm	1	51	38	-	
Parsonstown ...	30.21	55	SE	1	b	30.12	-17	38	36	-5	Z	0	b	*	59	35	-	
Valencia ...	30.19	50	ESE	4	bm	30.05	-22	47	44	-3	ESE	3	bm	3	54	40	-	
Roche's Point ...	30.24	46	ESE	4	bc	30.09	-20	47	44	+2	SE	4	cm	4	53	42	-	
SCANDINAVIA.																		
Pembroke (St. Ann's Hd.) ...	30.25	46	ESE	2	b	30.12	-20	39	38	-3	E	3	bm	2	47	37	-	
Scilly ...	30.22	46	E	6	c	30.03	-21	45	42	-1	E	6	c	4	49	42	-	
Prawle Point ...	30.22	42	ESE	4	b	30.09	-22	41	39	-2	ESE	5	og	3	46	39	-	
Jersey (St. Aubin's) ...	30.18	47	ESE	5	bm	30.06	-21	46	43	+1	ESE	5	bm	4	50	42	-	
Hurst Castle ...	30.27	45	ESE	4	b	30.14	-21	42	40	+1	ESE	4	b	3	51	38	-	
SCANDINAVIA.																		
Dungeness ...	30.25	43	ESE	4	bc	30.14	-18	43	39	0	ESE	6	bc	4	48	39	-	
London ...	30.28	43	E	2	b	30.19	-18	41	38	0	ESE	3	c	*	51	33	-	
Oxford ...	30.29	41	NE	2	b	30.22	-17	34	33	-2	NE	1	0	*	50	28	-	
Cambridge ...	30.31	44	E	1	b	30.23	-16	38	34	-2	E	1	c	*	50	25	-	
Yarmouth ...	30.31	42	E	2	bv	30.24	-11	40	37	-1	E	2	bcv	2	45	38	-	
SCANDINAVIA.																		
Cuxhaven ...	30.29	41	NW	4	c	30.24	+03	40	37	-1	NE	2	b	*	42	39	-	
Berlin ...	30.23	43	MMW	4	b	30.21	00	39	36	+1	MMW	3	0	*	52	37	-	
Wiesbaden ...	*	*	*	*	*	30.14	-14	40	37	0	Z	0	b	*	52	34	-	
Munich ...	30.23	37	NE	4	b	30.10	-11	35	34	0	E	5	b	*	48	27	-	
The Helder ...	30.33	41	N	1	c	30.26	-07	39	36	-2	ESE	1	c	1	45	37	-	
SCANDINAVIA.																		
Brussels (9 a.m.) ...	*	*	*	*	*	30.19	-15	35	33	-6	ESE	3	b	*	49	31	-	
Cape Gris Nez ...	?	42	E	5	b	?	?	33	32	-6	ESE	4	b	2	46	32	-	
Paris ...	30.14	48	MMW	3	b	30.07	-19	37	35	0	MMW	2	b	*	57	33	-	
Brest ...	?	53	E	4	b	?	?	40	37	-3	ESE	3	b	2	66	36	-	
Lorient ...	30.06	51	NE	4	b	29.93	-21	42	39	-1	ESE	4	b	2	57	41	-	
SCANDINAVIA.																		
Rochefort ...	30.00	60	NE	5	b	29.89	-19	44	41	-2	ESE	5	b	2	66	37	-	
Belfort ...	30.02	45	SE	1	b	29.96	-14	44	36	+2	N	1	b	*	55	35	-	
Lyons ...	29.96	57	MMW	2	b	29.98	-10	42	37	-1	N	2	b	*	62	39	-	
Nice ...	30.09	53	SW	4	b	29.94	-01	55	46	+7	NE	5	bc	2	61	48	-	
Perpignan ...	29.88	61	S	1	0	29.88	-04	54	53	+6	E	2	0	*	73	48	-	
Biarritz ...	29.85	57	W	3	c	29.75	-22	54	53	0	Z	0	0	1	64	52	0.08	
SCANDINAVIA.																		
Corunna ...	*	*	*	*	*	29.62	-21	54	54	+4	N	3	7	4	61	?	0.24	
Lisbon ...	29.67	55	MMW	5	r													

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, 2nd APRIL.

1890.

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:

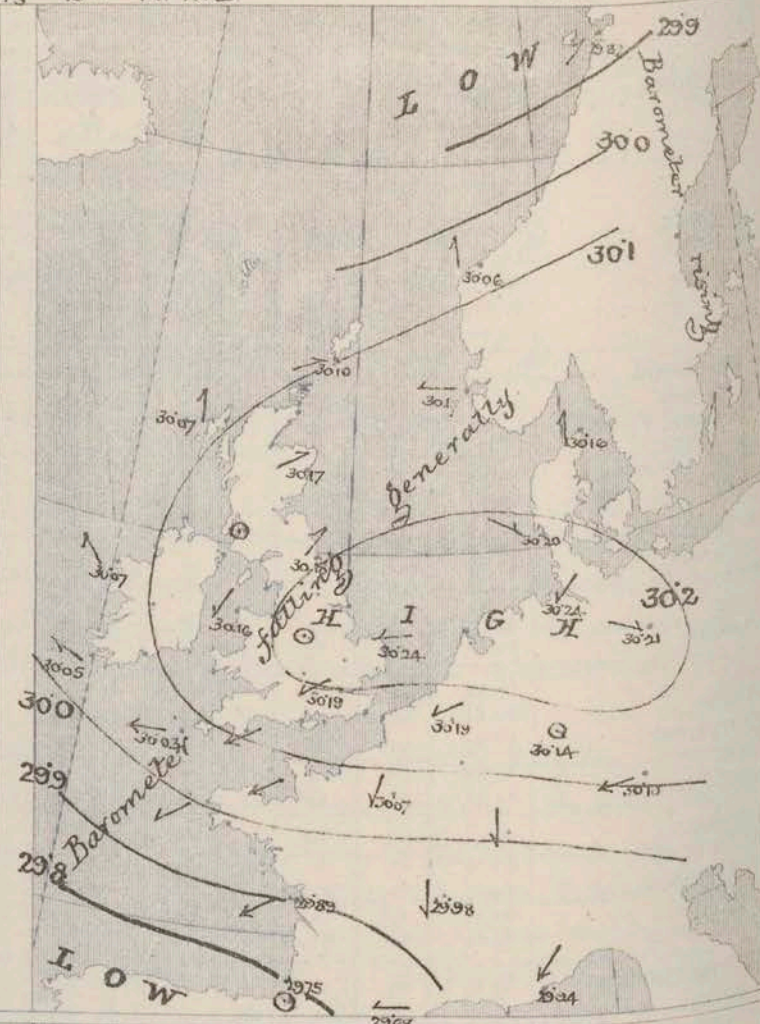
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of April.

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.849
Stornoway	29.821
Wick	29.853
Nairn	29.853
Aberdeen	29.862
Leith	29.865
Shields	29.870
York	29.877
Loughborough	29.878
Ardrossan	29.857
Donaghadee	29.853
Holyhead	29.851
Liverpool	29.864
Parsonstown	29.853
Valencia	29.835
Roche's Point	29.838
Pembroke	29.844
Scilly	29.849
Jersey	29.867
Hurst Castle	29.867
Dover	29.866
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.876



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.

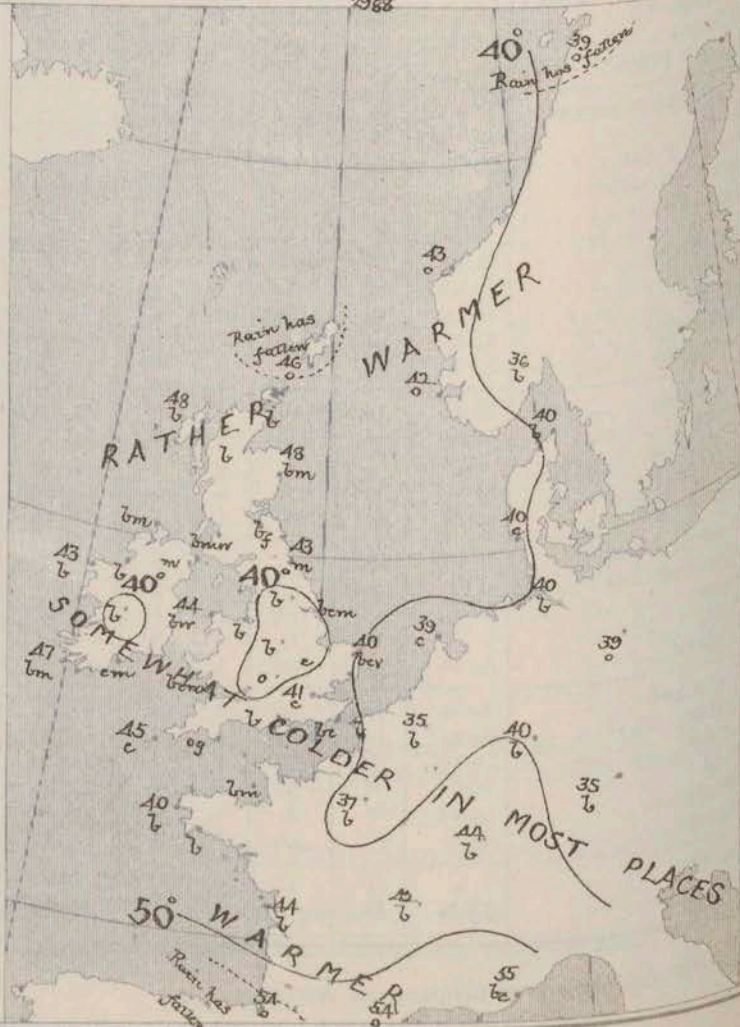
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of April.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	46.3	37.3	41.9	40.5	2.16
Stornoway	49.3	37.5	44.1	42.3	2.51
Wick.....	49.2	37.4	43.2	41.2	1.56
Nairn.....	51.5	37.9	43.1	40.6	1.23
Aberdeen.....	49.6	38.5	43.4	40.9	2.23
Leith.....	52.6	38.2	44.2	42.1	1.65
Shields.....	49.2	39.2	43.8	41.7	1.94
York.....	54.1	37.8	44.1	42.0	1.86
Loughborough.....	55.7	38.3	45.1	42.6	1.77
Ardrossan.....	52.1	39.9	44.6	42.2	2.23
Donaghadee.....	51.3	40.1	44.8	43.2	2.02
Holyhead.....	51.9	42.4	46.2	44.2	1.86
Liverpool.....	53.9	40.7	45.5	42.6	1.56
Parsonstown.....	55.0	38.3	45.7	43.0	2.15
Valencia.....	51.3	42.9	48.4	45.9	4.01
Roche's Point.....	51.2	42.4	47.0	44.9	3.13
Pembroke.....	50.8	42.1	45.6	43.6	2.10
Scilly.....	52.5	45.0	49.0	47.1	2.45
Jersey.....	54.6	43.6	49.0	45.4	2.04
Hurst Castle.....	52.3	41.4	45.9	41.6	1.87
Dover.....	51.5	42.4	47.1	44.5	1.81
LONDON.....	56.7	40.0	46.8	43.8	1.86
Oxford.....	55.1	39.3	45.0	42.7	1.79
Cambridge.....	56.2	37.7	45.5	43.3	1.76
Yarmouth.....	49.5	40.4	45.1	43.4	1.80

NOTE—The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 20 years 1866-85.



GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest, 30.2 mm: and upwards over Holland, North Germany, and the eastern and central parts of England. Lowest, 29.7 mm: and less, in a depression lying over the Iberian Peninsula; 29.9 mm: and less, in another system lying off the northeast of Norway. Gradients slight generally. Barometer falling at all but the Scandinavian stations, most in the south and southwest.
TEMPERATURE	Highest, 55° at Nice, 54° at Biarritz, Perpignan and Lisbon, 50° at Wick, 48° at Stornoway and Aberdeen. Lowest, 14° at Kaparanda, 31° at Southborough, 34° at Oxford, 35° at Brussels and Munich, 36° at Auzon, York and Nisby, and 37° at Stockholm and Paris. Sharp frost occurred over Central England last night; in London the thermometer on the grass fell to 21° and at Oxford to 18°.
WIND	Light from the SW nd over our north and northeast coasts and also in the west of Norway. Moderate from the SE nd in Ireland. E or NE over the Channel and Bay of Biscay; strong at Scilly and Brest. Light from the N th over Eastern and Central France.
WEATHER	Fine generally, but dull in the Shetlands and west of Norway, as well as in the extreme south of France. Rain is falling at Lisbon.
SEA	is moderate to smooth.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression over Spain appears to be extending somewhat in a northerly direction, and gradients to the southward of our islands are inclined to increase. Strong E^{ly} winds will probably continue in the Channel, but, ^{there} are at present no indications of any decided change in the weather.

FORECASTS

For the 24 hours ending at NOON on 3rd April 1890.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	S ^{ly} and SW ^{ly} winds, light; fair generally.	6 SCOTLAND WEST	Same as N° 4
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.	S ^{ly} to SE ^{ly} winds, light; fair generally.	8 ENGLAND S.W.	Same as N° 5
3 ENGLAND EAST	E ^{ly} winds freshening; fair generally.	9 IRELAND NORTH	E ^{ly} and SE ^{ly} winds, moderate; fair generally.
4 MIDLAND COUNTIES	Light breezes, chiefly E ^{ly} ; fair generally.	10 IRELAND SOUTH	
5 ENGLAND SOUTH	E ^{ly} winds, fresh or strong; fair generally.		
		WARNINGS	NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	30.21	44	39	W	5	c	3		Holyhead ...	30.31	51	45	SW	2	b
Sumburgh Head ...	30.08	44	42	WSW	1	o	2		Valencia ...	30.23	54	50	SE	5	c
Stornoway ...	30.08	49	49	SW	6	o	5		Scilly ...	30.23	47	44	E	6	c
Aberdeen ...	30.16	58	47	SW	1	b	1		Jersey ...	30.23	49	44	ESE	5	b
Shields ...	30.26	53	47	W	1	c	2		Dungeness ...	30.29	46	41	ESE	4	b
Ardrossan ...	30.25	50	47	SSW	2	b	1		London ...	30.32	49	43	ESE	3	b
Malin Head ...	30.21	53	49	WSW	2	o	0		Yarmouth ...	30.34	44	40	ESE	2	b
Mullaghmore ...	30.22	57	50	SSW	4	b	2		Rochefort ...	30.07	64	52	ESE	5	b
Belmullet ...	30.21	54	52	SSW	2	b	*								

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

Weather fine and bright over Western and Southern Europe as a whole, dull in the north and east, with slight snow at Archangel and St Petersburg. Slight showers in extreme north of our area later, but weather, as a whole, dry and cold, especially over England at night.

Temperature in morning varying from 48° to 65° at the Mediterranean stations, and from 50° to 59° on the Atlantic coasts of the Iberian Peninsula; below 50° elsewhere, below 40° over Eastern and Northern Europe, and as low as 11° at Archangel, 22° to 28° over Finland, and 28° to 31° over the North Midland counties of England. Rising to between 55° and 59° in Scotland and Ireland later, less mild over England, and falling fast again as night came on.

Wind very light in most places, moderate at the most northern and western stations. Mainly SW¹ in the north of our Islands, NW² to N³ over the Baltic and Germany, NE⁴ over Spain, E⁵ over the Channel and Bay of Biscay. Becoming S⁶ in the west of Ireland later and freshening from E. in the Channel; no great change elsewhere.

Barometer highest, 30.1 ins: to nearly 30.4 ins: in an anticyclone lying over the United Kingdom and Northwestern Europe, lowest 29.5 ins and less, over the northeast of Russia, about 29.7 ins: over the Black Sea, and below 29.8 ins: in the extreme south of Spain. Falling later at the southern stations, owing to the advance of a depression over Spain from the Atlantic.

NOTE — The report for Good Friday, the 4th inst., will be issued on Monday the 7th.

EXPLANATION OF 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).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for

Thursday, 3rd April,

1890.

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

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.			Sea. (0 to 1.)	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.)			Weather.	Max.		Min.
SCANDINAVIA.																		
Haparanda ...	29.84	26	SW	2	c	29.60	- .34	38	36	+ 24	WSW	4	0	*	?	?	-	
Hernösand ...	30.06	40	N	2	c	30.02	+ .01	41	37	+ 4	WSW	2	0	*	54	28	-	
Stockholm ...	30.16	40	W	2	b	30.18	+ .06	37	33	0	W	4	0	*	54	30	-	
Wisby ...	30.15	36	ESE	4	b	30.17	+ .10	38	36	+ 2	W	4	0	*	43	34	-	
Bodö ...	29.81	42	SW	6	c	29.66	- .21	42	42	+ 3	SW	8	0	*	43	?	0.16	
Christiansund ...	30.10	43	WSW	4	bc	30.02	- .04	45	40	+ 2	WSW	2	0	4	46	41	-	
Skudesnaes ...	30.22	42	Z	0	0	30.25	+ .08	41	39	- 1	SSE	4	0	4	?	37	-	
Christiania Fjord (Fæder)	30.21	40	SSW	2	b	30.19	+ .02	40	38	+ 4	SW	5	0	2	43	?	-	
Skagen (The Scaw)	30.21	39	Z	0	b	30.28	+ .12	39	38	- 1	SW	1	0	1	48	34	-	
Fanö ...	30.24	38	E	3	b	30.26	+ .06	38	35	- 2	E	4	0	*	48	34	-	
BRITISH ISLANDS.																		
Sambrugh Head ...	30.08	46	SSW	2	c	30.03	- .07	45	44	- 1	Z	0	c	2	52	41	-	
Stornoway ...	30.02	51	SW	5	b	30.07	0.0	46	45	- 2	S	2	0	3	54	47	-	
Wick ...	30.06	48	SW	1	b	30.10	- .02	40	38	- 10	Z	0	0	0	57	36	-	
Nairn ...	?	49	Z	0	b	30.10	- .04	44	42	0	SW	1	bm	1	60	35	-	
Aberdeen ...	30.11	49	SSE	2	b	30.12	- .03	43	42	- 3	WSW	1	bmw	1	56	37	-	
Leith ...	30.08	49	E	1	b	30.16	- .03	46	41	+ 5	N	1	bm	*	57	33	-	
Shields ...	30.11	48	SE	1	m	30.17	- .01	38	37	- 5	SW	2	m	2	55	36	-	
Spurn Head ...	30.13	42	ESE	3	bc	30.19	- .02	42	40	+ 2	ESE	3	0	2	46	39	-	
York ...	30.13	52	SE	1	b	?	?	34	34	- 2	?	2	bc	*	57	28	-	
Loughborough ...	30.10	50	ESE	3	b	30.20	- .04	38	37	+ 6	NE	2	ogmw	*	57	32	-	
GERMANY AND HOLLAND.																		
Arrossan ...	30.08	52	SW	1	bm	30.16	- .02	43	40	0	Z	0	bfw	0	56	38	-	
Malin Head ...	30.04	53	SW	1	bm	30.13	+ .01	46	42	+ 2	Z	0	bmw	0	56	41	-	
Mullaghmore ...	30.04	54	SSE	2	b	30.14	+ .04	40	39	- 5	ESE	2	0	3	56	35	-	
Belmullet ...	30.03	49	WSW	2	b	30.15	+ .08	40	35	- 3	W	1	0	*	53	39	-	
Donaghadee ...	30.08	47	SSW	2	b	30.16	- .02	39	38	- 6	W	2	0	0	53	32	-	
FRANCE AND BELGIUM.																		
Liverpool (Bidston)	30.09	51	SE	2	b	30.19	- .01	37	36	- 3	SE	2	0	3	56	35	-	
Holyhead ...	30.07	45	WSW	2	bm	30.15	- .01	45	43	+ 1	SE	1	bmw	1	53	37	-	
Parsonstown ...	30.04	52	Z	0	b	30.15	+ .03	33	31	- 5	Z	0	0	*	56	28	-	
Valencia ...	30.03	48	SSE	3	bm	30.14	+ .09	43	42	- 4	ESE	1	bm	1	52	36	-	
Roche's Point ...	30.04	45	SE	3	bc	30.11	+ .02	42	39	- 5	WSW	3	0	3	49	35	-	
ITALY.																		
Pembroke (St. Ann's Hd.)	30.04	48	ESE	2	b	30.12	0.0	40	39	+ 1	E	3	bm	2	48	36	-	
Scilly ...	29.99	46	ESE	6	c	30.03	- .00	45	43	0	E	5	c	4	49	42	-	
Prawle Point ...	29.98	45	ESE	6	bc	30.06	- .03	42	40	+ 1	ESE	6	c	4	47	39	-	
Jersey (St. Aubin's)	29.93	49	ESE	5	b	30.01	- .05	46	42	0	NE	5	bm	3	53	42	-	
Hurst Castle ...	30.02	48	ESE	3	b	30.09	- .05	44	42	+ 2	ESE	4	0	3	52	36	-	
SPAIN.																		
Dungeness ...	30.02	42	ESE	6	bc	30.04	- .10	44	40	+ 1	ESE	6	bc	4	47	41	-	
London ...	30.00	42	E	4	b	30.12	- .07	43	40	+ 2	ESE	4	0	*	50	37	-	
Oxford ...	30.10	42	ESE	2	b	30.16	- .06	41	39	+ 7	NE	3	bc	*	52	34	-	
Cambridge ...	30.11	44	E	1	b	30.16	- .07	44	41	+ 6	ESE	1	0	*	53	32	-	
Yarmouth ...	30.14	41	E	4	bc	30.16	- .08	42	40	+ 2	ESE	5	bc	4	43	39	-	
PORTUGAL.																		
Cuxhaven ...	30.18	41	ESE	3	b	30.22	- .02	38	37	- 2	E	3	0	*	43	38	-	
Berlin ...	30.18	42	E	3	c	30.22	+ .01	40	38	+ 1	ESE	4	0	*	43	37	-	
Wiesbaden ...	*	*	*	*	*	29.98	- .16	44	39	+ 4	NE	4	0	*	53	40	-	
Munich ...	29.92	40	NE	3	b	29.96	- .24	37	35	+ 2	NE	5	bc	*	52	30	-	
The Helder ...	30.16	43	ESE	2	b	30.18	- .08	40	38	+ 1	ESE	2	0	3	45	39	-	
AFRICA AND ASIA.																		
Brussels (9 a.m.)	*	*	*	*	*	30.05	- .14	35	33	0	ESE	3	0	*	51	32	-	
Cape Gris Nez ...	?	?	?	?	?	?	?	37	35	+ 4	ESE	4	0	3	45	?	-	
Paris ...	29.89	57	NE	2	b	29.94	- .13	36	34	- 1	N	2	0	*	?	33	-	
Brest ...	29.86	55	ESE	2	b	29.92	?	43	41	+ 3	E	4	m	3	68	32	0.04	
Lorient ...	29.82	53	E	3	b	29.91	- .02	43	41	+ 1	NE	4	0	4	61	39	-	
AFRICA AND ASIA.																		
Rochefort ...	29.80	63	ESE	4	bc	29.90	+ .01	47	44	+ 3	NE	3	0	*	73	39	-	
Belfort ...	29.80	44	N	1	b	29.68	- .28	43	36	- 1	N	1	0	*	59	36	-	
Lyons ...	29.79	?	NE	1	0	29.82	- .16	41	39	- 1	WSW	1	0	*	68	40	0.04	
Nice ...	29.81	57	E	6	0	29.73	- .21	52	46	- 3	S	1	0	3	64	50	-	
Perpignan ...	29.80	52	E	2	T	29.81	- .07	50	50	- 4	ESE	2	0	*	61	48	0.87	
Biarritz ...	29.69	57	WSW	3	0	29.75	0.0	53	51	- 1	E	4	0	2	63	50	-	
AFRICA AND ASIA.																		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ...	29.68	55	WSW	4	0	29.78	+ .16	55	52	+ 1	Z	0	0	4	61	54	0.08	

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, 3rd April

1890.

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:

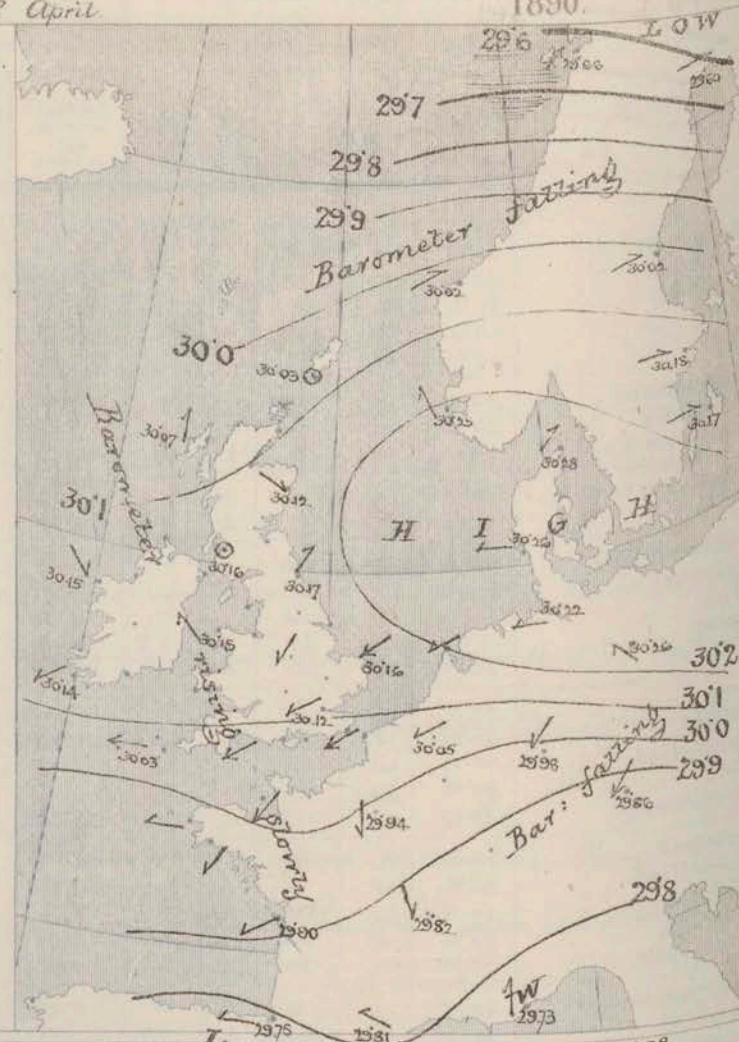
⊞ = Rough. ⊞ = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of April.

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.849
Stornoway	29.821
Wick	29.853
Nairn	29.853
Aberdeen	29.862
Leith	29.865
Shields	29.870
York	29.877
Loughborough	29.878
Ardrossan	29.857
Donaghadee	29.853
Holyhead	29.851
Liverpool	29.864
Parsonstown	29.853
Valencia	29.835
Roche's Point	29.838
Pembroke	29.844
Scilly	29.849
Jersey	29.867
Hurst Castle	29.867
Dover	29.866
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.876



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.

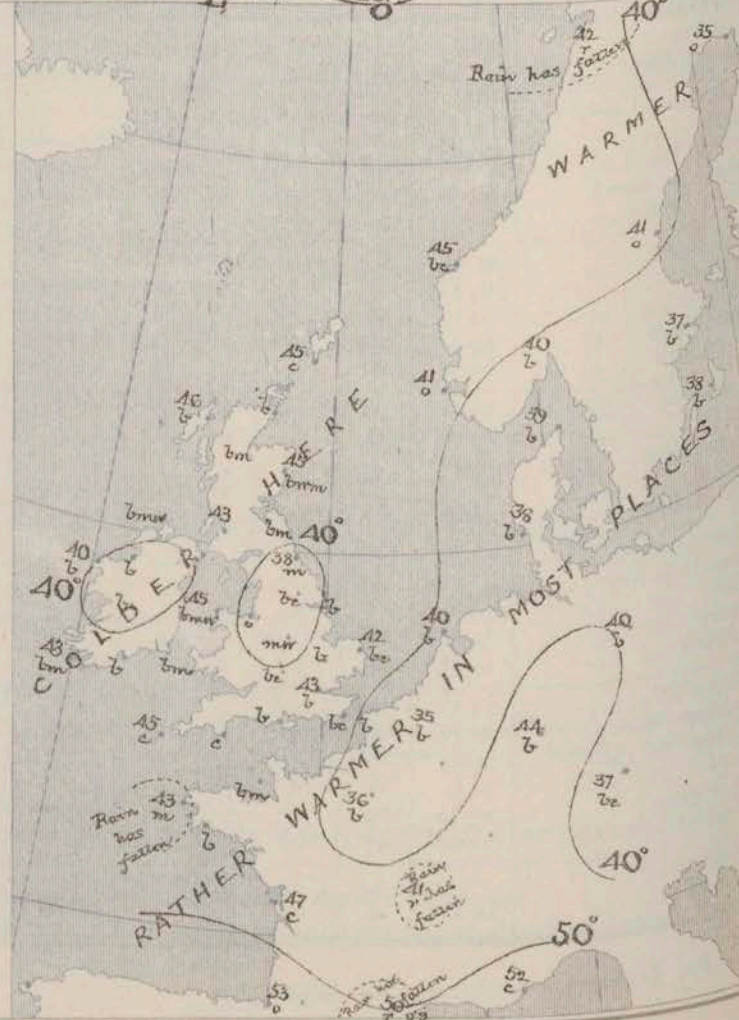
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of April.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	46.3	37.3	41.9	40.5	2.16
Stornoway	49.3	37.5	41.1	42.3	2.51
Wick	49.2	37.4	43.2	41.2	1.56
Nairn	51.5	37.9	43.1	40.6	1.23
Aberdeen	49.6	38.5	43.4	40.9	2.23
Leith	52.6	38.2	44.2	42.1	1.65
Shields	49.2	39.2	43.8	41.7	1.94
York	54.1	37.8	44.1	42.0	1.86
Loughborough	53.7	38.3	45.1	42.6	1.77
Ardrossan	52.1	39.9	44.6	42.2	2.23
Donaghadee	51.3	40.1	44.8	43.2	2.02
Holyhead	51.9	42.4	46.2	44.2	1.86
Liverpool	53.0	40.7	45.5	42.6	1.56
Parsonstown	55.0	38.3	45.7	43.0	2.15
Valencia	54.3	42.9	48.4	45.9	4.01
Roche's Point	54.2	42.4	47.0	44.9	3.43
Pembroke	50.8	42.1	45.6	43.6	2.10
Scilly	52.5	45.0	49.0	47.1	2.45
Jersey	54.6	43.6	49.0	46.4	2.04
Hurst Castle	52.3	41.4	45.9	44.6	1.87
Dover	51.5	42.4	47.1	44.5	1.81
LONDON	56.7	40.0	46.8	45.8	1.86
Oxford	55.1	39.3	45.0	42.7	1.79
Cambridge	58.2	37.7	45.5	43.3	1.76
Yarmouth	49.5	40.4	45.1	43.4	1.80

NOTE.—The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 20 years 1866-85.



GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest, 30.2 ins: and upwards, over Denmark, North Germany, the extreme south of Scandinavia and the greater part of the North Sea. lowest, 29.6 ins: and less, over Lapland; 29.8 ins: and less, over Spain and the south of France. Gradients rather steep over the north of Scandinavia, but slight elsewhere. Barometer falling in Scandinavia and the southern parts of Germany and France, but rising elsewhere.
TEMPERATURE	Highest, 55° at Luton, 53° at Biarritz, 52° at Nice, 50° at Perpignan, 47° at Rochefort, and 46° at Honfleur and Jersey. lowest, 33° at Biscarosse, 34° at York, 35° at Brussels, 36° at Paris, and 37° at Stockholm, Liverpool and Munich. That occurred last night in the central part of the Kingdom; in London the thermometer on the grass fell to 30°.
WIND	E or NE over the greater part of England, Ireland, France, the Netherlands and Germany; strong in force at some of the Channel stations. Light and variable over the northern part of the United Kingdom. W or SW in Scandinavia; strong to a gale at Bodø.
WEATHER	Fine generally, but dull in the north of Scandinavia and the south of France, with rain at Bodø, and also at Lyons and Perpignan. No rain has fallen in any part of the United Kingdom.
SEA	Rather rough at Bodø, and moderate on our south and east coast, but slight or smooth elsewhere.



PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are at present no distinct indications of any change, but some slight irregularities in pressure are beginning to show themselves over South Germany and the east of France. These may possibly extend northwards and occasion less settled weather over our southeastern districts.

FORECASTS

For the 24 hours ending at NOON on 4TH APRIL 1890.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS
0 SCOTLAND NORTH	Variable or SW ^{ly} breezes; fair generally.	6 SCOTLAND WEST	Same as N°1.
1 SCOTLAND EAST	Variable or SE ^{ly} breezes; fair generally.	7 ENGLAND N.W.	SE ^{ly} to E ^{ly} winds, moderate; fair generally.
2 ENGLAND N.E.	E ^{ly} winds, freshening; fine generally.	8 ENGLAND S.W.	Same as N°5.
3 ENGLAND EAST	Same as N°5.	9 IRELAND NORTH	Light variable breezes, fair generally.
4 MIDLAND COUNTIES	Same as N°2.	10 IRELAND SOUTH	Light breezes, chiefly E ^{ly} ; fair generally.
5 ENGLAND SOUTH	E ^{ly} and NE ^{ly} winds, fresh or strong; fair generally.	WARNINGS	NONE ISSUED.

N°1.—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 ...	30.15	44	43	SSW	1	6c	3		Holyhead ...	30.12	50	45	W	1	4
Sumburgh Head ...	30.10	51	48	SSW	2	6	2		Valencia ...	30.04	52	47	SSW	4	6m
Stornoway ...	30.04	51	52	SW	5	6	4		Scilly ...	29.98	48	45	E	7	6
Aberdeen ...	30.13	52	48	SE	2	6	2		Jersey ...	29.96	53	48	ENE	6	6
Shields ...	30.13	55	49	E	2	6	2		Dungeness ...	30.07	44	41	ENE	6	6
Ardrossan ...	30.11	56	49	SW	1	6	1		London ...	30.13	46	42	E	4	6
Malin Head ...	30.06	56	48	S	2	6	1		Yarmouth ...	30.14	43	40	E	3	6V
Mullaghmore ...	30.06	54	46	SE	4	6m	3		Rochefort ...	29.88	70	59	ENE	4	C
Belmullet ...	30.06	53	50	NEW	2	6	*								

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

Weather fine over nearly the whole of Europe, but dull in many parts of Russia and North Germany, in Norway and some parts of Spain, rain at Lisbon. Continuing dry throughout our Islands during the day, some rain falling at Christianund and several parts of Spain.

Temperature rather low; varying from 50° to 61° at the Mediterranean stations and on the Portuguese and Spanish coasts, much lower elsewhere. Morning readings as low as 32° at Loughborough and also at Kiev, 28° at Koenigs and Moscow, 26° at St Petersburg, 21° at Kuopio, and 9° at Archangel. Rising to between 50° and 57° over Scotland and Ireland later to 60° and more in France and to 73° at Rochefort.

Wind E to NE^{ly} over France, the Channel, and Southwestern Europe, and blowing strongly at several of the Mediterranean stations and at Scilly; moderate from SE in Ireland, light from the southwest in Scotland and the west of Norway, but W^{ly} at Christianund and Paris.

Barometer, highest 30.1 ins. to 30.2 ins. and more, in a large anticyclone covering the British Island, the North Sea, the Southern parts of Scandinavia and Central Europe; lowest, 29.8 ins. and less over the northeast of Russia, 29.7 ins. and less, in two shallow depressions, one lying near Lisbon and the other near Algiers. Barometer falling slightly over Northwestern Europe.

NOTE. The report for tomorrow, Good Friday, will be issued on Monday the 7th inst.

EXPLANATION OF 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).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Friday 4th APRIL 1890.
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

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.	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.	Sea. (0 to 12.)	Max.	Min.
SCANDINAVIA.																		
Haparanda ...	29.34	41	SW	6	0	29.37	- .23	39	36	+ 1	NW	5	bc	*	50	25	—	
Hernösand ...	29.18	39	Z	0	5	29.85	- .17	42	36	+ 1	WNW	6	c	*	25.9	36	—	
Stockholm ...	30.03	42	WNW	4	6	30.02	- .16	39	36	+ 2	W	2	c	*	50	32	—	
Wisby ...	30.15	39	WSW	4	6	30.08	- .09	39	37	+ 1	W	4	bc	*	46	34	—	
Bodö ...	29.49	40	SW	8	7	29.69	+ .03	37	35	- 5	W	6	o	3	43	34	0.39	
CHRISTIANIA.																		
Christiansund	29.98	42	WSW	9	7	30.04	+ .02	42	41	- 3	WSW	7	o	5	50	39	0.24	
Skudenesnaes ...	30.21	41	S	4	0	30.20	- .05	41	40	0	SSE	2	o	3	41	39	—	
Christiania Fjord (Færder)	30.10	40	WSW	5	6	30.09	- .10	40	40	0	SW	3	b	3	41	39	—	
Skagen (The Scaw)	30.23	39	W	2	6	30.15	- .13	40	39	+ 1	W	3	m	3	48	36	—	
Fanö ...	30.25	40	Z	0	6	30.25	- .01	41	40	+ 3	ESE	2	b	*	48	34	—	
BRITISH ISLANDS.																		
Sumburgh Head	30.11	46	Z	0	6	30.05	+ .02	42	42	- 3	Z	0	f	1	52	38	—	
Stornoway ...	30.09	50	S	2	c	30.02	- .05	47	46	+ 1	S	4	b	4	56	38	—	
Wick ...	30.10	45	SW	1	6	30.10	0.00	44	44	+ 6	SW	1	b	0	56	35	—	
Nairn ...	30.10	53	Z	0	6	30.09	- .01	39	38	- 5	Z	0	bm	1	60	30	—	
Aberdeen ...	30.14	46	SE	2	6	30.13	+ .01	50	43	+ 5	S	2	b	1	57	34	—	
SCOTLAND.																		
Leith ...	30.13	51	Z	0	6	30.16	0.00	43	40	- 3	W	1	bm	*	61	34	—	
Shields ...	30.17	46	SE	1	m	30.19	+ .02	36	35	- 2	SW	2	m	2	55	34	—	
Spurn Head ...	30.18	43	NE	3	6	30.18	- .01	43	41	+ 1	NNE	3	c	3	46	38	—	
York ...	30.18	51	E	1	6	30.23	?	39	37	+ 5	NNE	1	b	*	55	31	—	
Loughborough ...	30.17	47	ENE	2	6	30.21	+ .01	38	37	0	NNE	2	omw	*	54	29	—	
IRELAND.																		
Ardrossan ...	30.14	49	SSW	1	6	30.16	0.00	46	42	+ 3	E	1	b	1	50	37	—	
Malin Head ...	30.13	48	SE	2	bm	30.12	- .01	45	42	- 1	S	2	b	1	50	42	—	
Mullaghmore ...	30.12	51	Z	0	6	30.16	+ .02	44	41	+ 4	SSE	1	b	2	53	38	—	
Belmullet ...	30.14	50	W	2	6	30.12	- .03	50	48	+ 10	SSW	3	bc	*	55	38	—	
Donaghadee ...	30.15	50	SSW	2	6	30.18	+ .02	42	42	+ 3	S	2	m	0	52	35	—	
ENGLAND.																		
Liverpool (Bidston)	30.18	49	SE	1	m	30.20	+ .01	44	41	+ 7	SSE	1	b	2	52	36	—	
Holyhead ...	30.16	47	NNW	1	bm	30.19	+ .04	49	46	+ 4	SE	1	bmw	1	53	39	—	
Parsonstown ...	30.12	48	Z	0	6	30.19	+ .04	36	34	+ 2	Z	0	b	*	60	30	—	
Valencia ...	30.15	52	WNW	1	bm	30.21	+ .07	48	47	+ 5	Z	0	bmw	1	56	36	—	
Roche's Point...	30.15	48	ESE	3	6	30.18	+ .07	40	38	- 2	N	2	b	3	62	35	—	
WELSH.																		
Pembroke (St. Ann's Hd.)	30.13	46	W	1	6	30.18	+ .06	42	40	+ 2	E	2	bm	2	50	38	—	
Scilly ...	30.08	48	ENE	4	6	30.12	+ .09	49	47	+ 4	NE	2	bc	4	50	42	—	
Prawle Point ...	30.09	45	ESE	2	6	30.15	+ .09	44	40	+ 2	N	3	b	1	50	34	—	
Jersey (St. Aubin's)	30.04	48	NE	5	bm	30.11	+ .10	43	41	- 3	NNE	4	ogm	3	53	42	—	
Hurst Castle ...	30.08	49	ENE	4	bm	30.13	+ .04	39	38	- 5	NE	3	b	3	53	35	—	
SCOTLAND.																		
Dungeness ...	30.02	44	ENE	5	6	30.05	+ .01	46	43	+ 2	ENE	5	bc	4	47	40	—	
London ...	30.11	46	E	2	6	30.13	+ .01	38	36	- 5	E	1	o	*	54	34	—	
Oxford ...	30.16	42	NE	3	6	30.19	+ .03	36	36	- 5	NNE	1	ow	*	55	30	—	
Cambridge ...	30.16	45	ENE	2	6	30.16	0.00	39	35	- 5	N	1	o	*	56	28	—	
Yarmouth ...	30.14	42	NE	4	6	30.14	- .02	44	42	+ 2	NE	4	bc	3	45	40	—	
FRANCE.																		
Cuxhaven ...	30.18	42	E	3	6	30.21	- .01	39	37	+ 1	E	3	b	*	49	38	—	
Berlin ...	30.18	45	E	4	6	30.21	- .01	38	35	- 2	E	4	b	*	52	34	—	
Wiesbaden ...	*	*	*	*	*	29.97	- .01	45	40	+ 1	E	4	b	*	55	41	—	
Munich ...	29.81	42	NE	4	6	29.89	+ .08	36	34	- 1	E	4	b	*	54	28	—	
The Helder ...	30.11	45	NE	2	6	30.15	- .03	42	40	+ 2	ENE	2	b	3	46	39	—	
GERMANY.																		
Brussels (9 a.m.)	?	42	E	5	6	30.02	- .03	40	37	+ 5	ENE	2	b	*	54	35	—	
Cape Gris Nez	?	42	E	5	6	?	?	44	42	+ 7	ENE	4	b	4	46	37	—	
Paris ...	29.91	54	N	3	6	29.97	+ .03	38	37	+ 2	NNW	2	b	*	59	37	—	
Brest ...	29.97	51	ENE	4	6	?	?	39	36	- 4	NE	1	b	1	66	36	—	
Lorient ...	29.94	54	NE	3	6	30.01	+ .10	41	39	- 2	NE	4	b	4	59	29	—	
ITALY.																		
Rochefort ...	29.90	60	NNE	3	6	30.00	+ .10	44	41	- 3	NNE	4	b	?	70	36	—	
Belfort ...	29.76	43	N	1	6	29.83	+ .15	42	36	- 1	S	1	b	*	57	35	—	
Lyons ...	29.75	56	NE	2	6	29.88	+ .06	46	42	+ 5	S	1	b	*	63	40	—	
Nice ...	29.75	53	SW	3	6	29.85	+ .12	48	39	- 4	E	4	c	1	61	45	—	
Perpignan ...	29.80	55	SE	1	0	29.90	+ .09	52	50	+ 2	WSW	1	r	*	64	50	0.08	
Biarritz ...	29.81	56	NW	3	0	29.91	+ .16	55	53	+ 2	W	4	o	2	59	52	—	
SPAIN.																		
Corunna ...	*	*	*	*	*	30.04	+ .21	57	53	- 2	N	5	b	?	59	51	—	
Lisbon ...	29.84	56	NW	1	0	29.84	+ .06	55	51	0	Z	0	o	6	54	54	—	

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

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for 8 a.m. on

Friday, 4th April,

1890.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

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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:

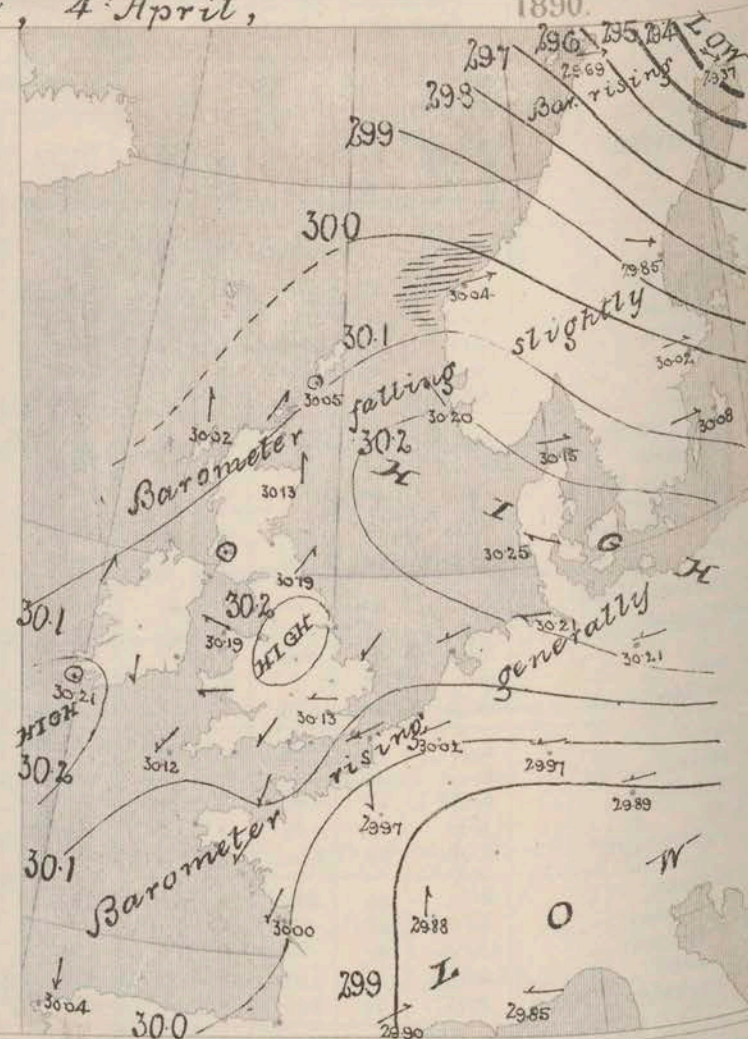
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of April.

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.849
Stornoway	29.821
Wick	29.853
Nairn	29.853
Aberdeen	29.862
Leith	29.865
Shields	29.870
York	29.877
Loughborough	29.878
Ardrossan	29.857
Donaghadee	29.853
Holyhead	29.851
Liverpool	29.864
Parsonstown	29.853
Valencia	29.835
Roche's Point	29.838
Pembroke	29.844
Silly	29.849
Jersey	29.867
Hurst Castle	29.867
Dover	29.866
LONDON	29.877
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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.

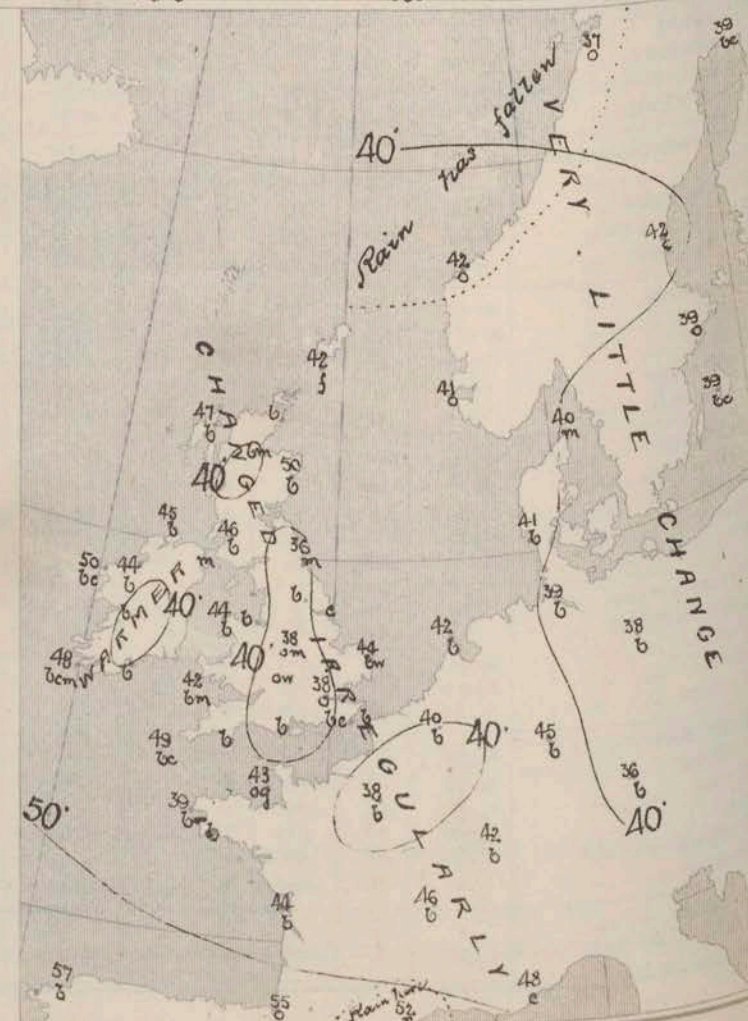
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of April.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	Dry. at 8 a.m.	Wet.	
Sumburgh Head.....	46.3	37.3	41.9	40.5	2.16
Stornoway	49.3	37.5	44.1	42.3	2.51
Wick	49.2	37.4	43.2	41.2	1.56
Nairn	51.5	37.9	43.1	40.6	1.23
Aberdeen	49.6	38.5	43.4	40.9	2.23
Leith	52.6	38.2	44.2	42.1	1.65
Shields	49.2	39.2	43.8	41.7	1.94
York	54.1	37.8	41.1	42.0	1.86
Loughborough	53.7	38.3	45.1	42.6	1.77
Ardrossan	52.1	39.9	44.6	42.2	2.23
Donaghadee	51.3	40.1	44.8	43.2	2.02
Holyhead	51.9	42.4	46.2	44.2	1.86
Liverpool	53.0	40.7	45.5	42.6	1.56
Parsonstown	55.0	38.3	45.7	43.0	2.15
Valencia	54.3	42.9	48.4	45.9	4.01
Roche's Point	54.2	42.4	47.0	44.9	3.43
Pembroke	50.8	42.1	45.6	43.6	2.10
Silly	52.5	45.0	49.0	47.1	2.45
Jersey	54.6	43.6	49.0	46.4	2.04
Hurst Castle	52.3	41.4	45.9	41.6	1.87
Dover	51.5	42.4	47.1	44.5	1.81
LONDON	56.7	40.0	46.8	43.8	1.86
Oxford	55.1	39.3	45.0	42.7	1.79
Cambridge	56.2	37.7	45.5	43.3	1.76
Yarmouth	49.5	40.4	45.1	43.4	1.80

NOTE.—The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 20 years 1868-85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.2 in: and upwards, in a large area lying over Denmark, North Germany, the eastern part of the North Sea and the southern parts of the Baltic, and also in smaller systems lying respectively over Central England and the southwest of Ireland.
Lowest, 29.4 in: and less, in a depression lying over Scotland; 29.9 in: and less over the east and south of France, and the southern part of the Hebrides.

Gradients, rather steep over the north of Scandinavia, but slight elsewhere.

Barometer falling in the extreme northwest and north of our Islands as well as in Sweden, but rising elsewhere.

TEMPERATURE

Highest, 57° at Bouma, 55° at Biarritz and Lisbon, 52° at Perpignan, 50° at Aberdeen and Bismillah, and 49° at Galley.

Lowest, 35° at Parsonstown, 36° at Shields, Oxford and Muenich, 37° at Bonn, and 38° at Loughborough, Berlin, and Paris.

Frost again occurred last night over the Central parts of the United Kingdom; in London the thermometer on the grass fell to 24°.

WIND

Moderate from the E. in Germany, from the N.E. or N. over the greater part of England, and the north and west of France.

Slight from the S.W. in the extreme west and north of our Islands; W. in Scandinavia, with a gale at the northern stations.

Variable over the south of Scotland, as well as in the south of France.

WEATHER

Fine generally, but hazy in many parts of the United Kingdom, and dull in the west of Norway and the extreme south of France, with rain at Perpignan.

Hail fell yesterday in the west of Norway, but over our Islands the weather remained very dry.

SEA

Rather rough at Christiansund, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 5th APRIL 1890.

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 ...	30.26	41	39	S	4	o	3		Holyhead ...	30.17	51	45	NNW	1	bm
Sumburgh Head ...	30.08	49	47	W	2	c	2		Valencia ...	30.15	54	49	NW	2	bm
Stornoway ...	30.10	54	52	SW	2	c	3		Scilly ...	30.08	49	45	ENE	4	bc
Aberdeen ...	30.12	53	48	SE	2	bm	1		Jersey ...	30.03	51	45	NE	5	bc
Shields ...	30.17	50	48	SE	2	b	2		Dungeness ...	30.44	47	42	ENE	6	b
Ardrossan ...	30.14	55	49	SSW	1	b	1		London ...	30.11	52	45	E	3	b
Malin Head ...	30.14	49	46	NNE	1	b	0		Yarmouth ...	30.16	45	42	ENE	4	b
Mullaghmore ...	30.14	52	48	WNW	3	b	3		Rochefort ...	29.90	66	55	NNE	3	b
Belmullet ...	30.15	55	51	W	1	b	*								

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

Weather fine in nearly all parts of Western, Central, and Eastern Europe, but hazy or foggy at some of the British and Irish stations. Dull over the greater part of the Mediterranean and Southern Europe and also in the north of Scandinavia, with rain at Rome and Algiers, as well as at ~~Barcelona~~. Rain falling later over the whole of Southern Italy, — heavily (0.9 in.) at Naples.

Temperature highest 55° to 60° or a little more over the Mediterranean and also on the coasts of the Iberian Peninsula (Oporto 63°, Palermo and Malta 62°, La Folla 60°, and Brindisi and Cagliari 58°). Lowest 13° at Archangel, 23° at Moscow, 30° at St. Petersburg and Krasnoy, 32° at Helsingfors, Narva, and Nicolaioff, and 33° at Kiev and Posenstowen. Daily maxima over England mostly below 55°, but thermometer rising to 60° or more at some of the Irish and Scotch stations, as well as in most parts of Southern Europe, and to 70° or more in Algeria.

Winds E⁴ or NE⁴ over the greater part of England and France, as well as over Central and Southern Europe; fresh or strong in force over the English Channel. Light and variable in the western and northern parts of the United Kingdom; W² or SW² in Scandinavia and Northern Russia, with a gale at Gode. SW¹ gale subsequently, extending southwards to Christiansund.

Barometer, highest 30.3 ins. and upwards, over Prussia and the southern parts of the Baltic, high 30.1 ins. and upwards, in a large anticyclone extending right across Europe from Ireland to Russia. Lowest, 29.6 ins. and less, in a large depression lying over Lapland, and also in another disturbance lying between the coasts of Tunis, Sicily, and Sardinia. Depression in far north subsequently becoming deeper. Mediterranean disturbance moving slowly eastwards to Italy.

EXPLANATION OF 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).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Saturday 5th April 1890.

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.	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 ...	29.57	30	2	0	bc	29.36	-0.1	32	31	-7	2	0	0	*	42	28	-	
Hernösand ...	29.80	42	WNW	2	c	29.72	-1.3	42	37	0	WNW	2	c	*	50	36	-	
Stockholm ...	29.01	44	W	2	bc	29.90	-1.2	36	35	-3	W	2	0	*	54	34	-	
Wisby ...	29.07	39	SW	4	c	29.77	-1.1	38	37	-1	W	4	c	*	46	36	-	
Bodö ...	29.28	38	W	4	0	29.43	-2.6	41	39	+4	W	6	0	4	32	0.32		
CHRISTIANIA.																		
Christiansund	29.94	42	WSW	7	7	29.82	-2.2	42	40	0	SW	6	c	4	46	39	0.16	
Skudesnaes ...	29.12	41	SE	2	0	29.01	-1.9	41	40	0	SE	2	0	4	43	39	-	
Christiania Fjord (Farder)	29.02	40	SE	2	m	29.94	-1.5	41	39	+1	WSW	2	c	2	46	39	-	
Skagen (The Seaw)	29.05	39	W	3	c	29.02	-1.3	41	40	+1	W	4	c	3	45	37	-	
Fanö ...	29.18	39	2	0	c	29.12	-1.3	44	41	+3	E	3	c	*	50	37	-	
SCOTLAND.																		
Sumburgh Head	29.77	40	WSW	2	c	29.75	-1.0	45	42	+3	W	3	c	2	52	40	0.02	
Stornoway ...	29.05	45	SW	3	7	29.03	+0.1	45	44	-2	SW	2	c	3	51	37	0.10	
Wick ...	29.05	44	N	1	c	29.06	-0.4	46	42	0	SW	1	c	1	57	39	0.06	
Nairn ...	29.04	51	W	1	bc	29.09	0.0	44	42	+5	W	1	c	1	60	58	0.06	
Aberdeen ...	29.05	49	SW	3	c	29.10	-0.3	44	41	-6	WSW	2	c	1	57	42	-	
ENGLAND.																		
Leith ...	29.09	54	WSW	1	c	29.10	-0.6	45	45	+5	W	2	cm	*	62	40	-	
Shields ...	29.11	48	SE	3	c	29.10	-0.9	41	39	+5	WSW	1	m	2	51	34	-	
Spurn Head ...	29.15	44	NE	3	c	29.10	-0.8	43	41	0	2	0	cm	1	48	36	-	
York ...	29.15	54	SE	1	c	29.12	-1.1	33	32	-6	W	1	c	*	57	30	-	
Loughborough	29.14	52	NE	2	c	29.15	-0.6	32	30	-6	2	0	cm	*	60	27	-	
IRELAND.																		
Ardrossan ...	29.11	52	WNW	2	cf	29.13	-0.3	46	44	0	NNW	1	c	0	52	43	-	
Malin Head ...	29.12	47	WSW	3	0.7	29.13	+0.1	45	44	0	2	1	cm	2	54	42	0.03	
Mullaghmore ...	29.14	49	WSW	2	0	29.12	-0.4	46	45	+2	ENE	1	cm	4	54	43	-	
Belmullet ...	29.14	49	WSW	2	0	29.14	+0.2	46	46	-4	ENE	2	bc	*	52	43	0.12	
Donaghadee ...	29.09	52	WSW	2	c	29.15	-0.3	46	46	+4	NE	3	c	1	56	42	-	
WALES.																		
Liverpool (Bidston)	29.14	48	WNW	1	m	29.14	-0.6	46	43	+2	ENE	1	cf	2	54	39	-	
Holyhead ...	29.16	49	WNW	1	cm	29.14	-0.5	46	45	-3	SW	3	cm	2	56	40	-	
Parsonstown ...	29.15	53	2	0	bc	29.14	-0.5	46	45	+11	2	0	c	*	59	35	-	
Valencia ...	29.18	51	WSW	1	0.7	29.14	-0.7	49	48	+1	SW	1	0	2	55	42	0.01	
Roche's Point...	29.16	50	SW	3	bc	29.15	-0.3	50	47	+10	2	0	cm	2	54	40	-	
FRANCE.																		
Pembroke (St. Ann's Hd.)	29.16	46	NE	1	c	29.15	-0.3	43	42	+1	ENE	1	cf	2	50	38	0.01	
Scilly ...	29.13	48	NNW	4	c	29.15	+0.3	49	47	0	NW	2	m	5	51	43	-	
Prawle Point ...	29.13	48	ENE	2	c	29.15	0.0	51	47	+7	N	2	cm	1	53	39	-	
Jersey (St. Aubin's)	29.08	49	NNW	4	c	29.13	+0.3	49	45	+6	NW	3	cm	3	53	41	-	
Hurst Castle ...	29.09	51	NE	3	c	29.14	+0.1	41	39	+2	NE	1	m	2	56	33	-	
GERMANY.																		
Dungeness ...	29.04	49	ENE	5	bc	29.06	+0.1	40	39	-6	NNE	5	m	3	52	33	-	
London ...	29.09	48	E	3	c	29.13	0.0	40	37	+2	NNE	1	fur	0	58	30	-	
Oxford ...	29.15	45	N	1	c	29.15	-0.4	37	34	+1	2	0	c	*	58	29	-	
Cambridge ...	29.16	48	2	0	c	29.13	-0.3	35	33	-4	2	0	cm	*	59	27	-	
Yarmouth ...	29.12	45	NNE	3	c	29.10	-0.4	44	43	0	NNE	3	c	3	47	36	-	
NETHERLANDS.																		
Cuxhaven ...	29.16	46	E	3	c	29.13	-0.8	41	40	+2	SE	2	c	*	50	32	-	
Berlin ...	29.15	47	E	3	c	29.15	-0.6	41	38	+3	E	3	c	*	52	36	-	
Wiesbaden ...	*	*	*	*	*	29.02	+0.5	40	43	+3	NE	2	c	*	59	41	-	
Munich ...	*	*	*	*	*	29.01	+1.2	39	36	+3	W	3	c	*	55	30	-	
The Helder ...	29.92	41	NE	2	c	29.08	-0.7	44	41	+2	E	1	c	1	48	32	-	
BELGIUM.																		
Brussels (a.m.)	*	*	*	*	*	29.04	+0.2	40	38	0	ENE	1	c	*	58	36	-	
Cape Gris Nez	?	44	ENE	4	c	?	?	42	41	-2	NNW	4	c	3	50	41	-	
Paris ...	29.95	53	N	2	c	29.02	+0.5	42	39	+4	NNW	2	c	*	59	38	-	
Brest ...	29.13	51	ENE	4	c	29.14	?	45	43	+6	NE	1	c	1	66	36	-	
Lorient ...	29.06	51	NNE	4	c	29.11	+1.0	43	42	+2	N	4	c	4	54	39	-	
FRANCE AND BELGIUM.																		
Rochefort ...	29.03	55	NW	4	c	29.10	+1.0	45	43	+1	NNE	3	c	?	61	37	-	
Belfort ...	29.84	57	N	1	c	29.94	+1.1	47	42	+5	N	1	c	*	57	35	-	
Lyons ...	29.95	49	ENE	2	c	29.04	+1.6	42	40	-4	N	1	c	*	62	37	-	
Nice ...	29.92	52	SW	2	c	29.97	+1.2	50	44	+2	WSW	1	c	1	61	45	-	
Perpignan ...	29.92	57	2	1	c	29.01	+1.1	51	50	-1	W	1	0	*	67	48	0.04	
Biarritz ...	29.99	55	N	4	c	29.07	+1.6	52	48	-3	NNW	5	c	3	61	50	-	
SPAIN.																		
Corunna ...	*	*	*	*	*	29.17	+1.3	56	50	-1	NNE	1	c	5	?	45	-	
Lisbon ...	29.88	58	NNW	5	c	29.98	+1.4	54	50	-1	N	4	c	3	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

Saturday, 5th April,

1890

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:

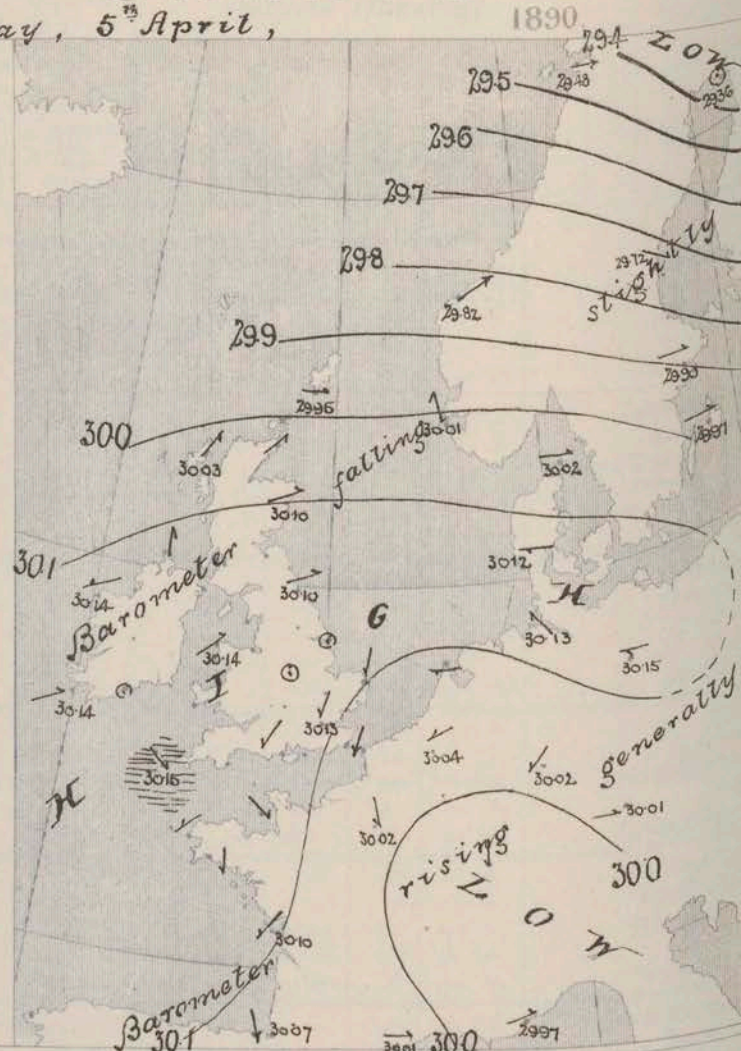
⊞ = Rough. ⊞ = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of April.

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
	<i>inches.</i>
Sumburgh Head	29.849
Stornoway	29.821
Wick	29.853
Nairn	29.853
Aberdeen	29.862
Leith	29.865
Shields	29.870
York	29.877
Loughborough	29.878
Ardrossan	29.857
Donaghadee	29.853
Holyhead	29.851
Liverpool	29.864
Parsonstown	29.853
Valencia	29.835
Roche's Point	29.838
Pembroke	29.844
Scilly	29.849
Jersey	29.867
Hurst Castle	29.867
Dover	29.866
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.876



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.

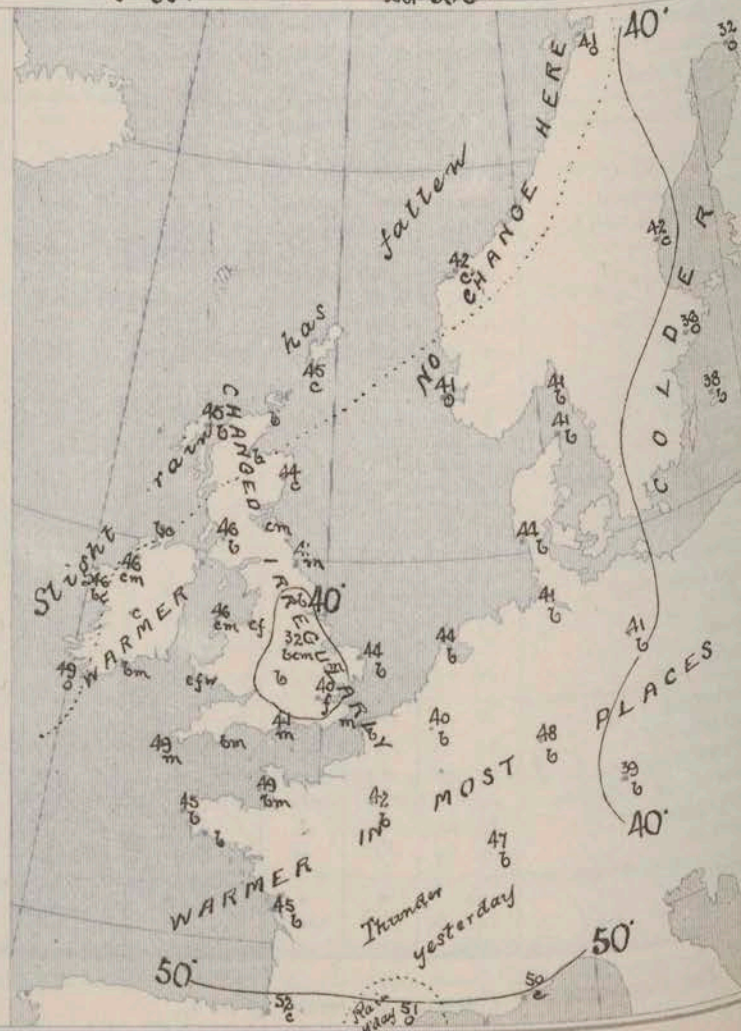
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of April.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	46.3	37.3	41.9	40.5	2.16
Stornoway	49.3	37.5	41.1	42.3	2.51
Wick	49.2	37.4	43.2	41.2	1.56
Nairn	51.5	37.9	43.1	40.6	1.23
Aberdeen	49.6	38.5	43.4	40.9	2.23
Leith	52.6	38.2	44.2	42.1	1.65
Shields	49.2	39.2	43.8	41.7	1.94
York	54.1	37.8	44.1	42.0	1.86
Loughborough	55.7	38.3	45.1	42.6	1.77
Ardrossan	52.1	39.9	44.6	42.2	2.23
Donaghadee	51.3	40.1	44.8	43.2	2.02
Holyhead	51.9	42.4	46.2	44.2	1.86
Liverpool	53.0	40.7	45.5	42.6	1.56
Parsonstown	55.0	38.3	45.7	43.0	2.15
Valencia	54.3	42.9	48.4	45.9	4.01
Roche's Point	54.2	42.4	47.0	44.9	3.43
Pembroke	50.8	42.1	45.6	43.6	2.10
Scilly	52.5	45.0	49.0	47.1	2.45
Jersey	51.6	43.6	49.0	46.4	2.04
Hurst Castle	52.3	41.4	45.9	44.6	1.87
Dover	51.5	42.4	47.1	44.5	1.81
LONDON	56.7	40.0	46.8	43.8	1.86
Oxford	55.1	39.3	45.0	42.7	1.79
Cambridge	56.2	37.7	45.5	43.3	1.74
Yarmouth	49.5	40.4	45.1	43.4	1.80

NOTE.—The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 20 years 1866-85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.1 ins. and upwards, over the greater part of the United Kingdom, the Bay of Biscay, the northwest of France, the southern parts of the North Sea, and North Germany.

Lowest, 29.4 ins. and less, in the north of Scandinavia.

Gradient moderate over Scandinavia, but slight elsewhere.

Barometer rising in Spain, France, and Germany, but falling slightly in most other localities.

TEMPERATURE

Highest, 54° at Leam, 52° at Biarritz, 51° at Pau and Perpignan, and 50° at Rocher Point and Nice.

Lowest, 32° at Haparanda and Loughborough, 33° at York, 35° at Cambridge, 36° at Stockholm, and 37° at Oxford.

Frost again occurred last night over the central parts of England; in London the thermometer on the grass fell to 17°.

WIND

Light from the SWnd on our north and northeast coasts, and strong from the same quarter in the coast of Norway.

Variable over the more central parts of the United Kingdom.

E^{ly} or NE^{ly} over Germany, the Netherlands, and the southeast of England.

N^{ly} or NW^{ly} over France and the southwest of England.

WEATHER

Fine generally, but hazy or foggy in many parts of the United Kingdom, and dull at some of the Scandinavian stations.

A little rain fell yesterday in some parts of our western and northern districts, and solar halos were seen at a few of our western stations.

SEA

Rather rough at Scilly, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The changes in pressure are at present too slight to lead to any material alteration in the weather. The general tendency is for the anticyclonic system to move southwards, and the NE^{ly} winds in the southeast are therefore likely to subside with some increase of temperature.

FORECASTS

For the 24 hours ending at NOON on 6TH APRIL 1890.

DISTRICTS.

FORECASTS.

0 SCOTLAND NORTH

1 SCOTLAND EAST

2 ENGLAND N.E.

3 ENGLAND EAST

4 MIDLAND COUNTIES

5 ENGLAND SOUTH

SW^{ly} and W^{ly} winds, light; fair generally.

N^{ly} to NW^{ly} winds, light; fair generally.

DISTRICTS.

FORECASTS

6 SCOTLAND WEST

7 ENGLAND N.W.

8 ENGLAND S.W.

9 IRELAND NORTH

10 IRELAND SOUTH

Light Variable airs; fair generally.

NW^{ly} winds, light; fair generally.

Variable breezes, finally SW^{ly}; fair to cloudy and unsettled.

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 ...	30.17	43	41	SE	2	of	3		Holyhead ...	30.17	54	49	NW	1	6m
Sumburgh Head ...									Valencia ...						
Stornoway ...									Scilly ...						
Aberdeen ...									Jersey ...	30.12	49	44	N	4	6m
Shields ...									Dungeness ...	30.03	51	46	ENE	5	6
Ardrossan ...	30.13	51	49	SE	1	6f	1		London ...						
Malin Head ...	30.13	52	48	2	0	0	1		Yarmouth ...						
Mullaghmore ...									Rochefort ...	30.03	56	51	NW	4	6
Belmullet ...	30.15	51	50	WNW	2	0	*								

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

Weather fine in nearly all parts of Western, Central, and Eastern Europe, but cloudy or overcast in the west of Norway, as well as in Spain, Algeria and the Adriatic. Haze reported in many parts of the United Kingdom. Rain falling at Perpignan, and snow at Archangel and Moscow. Solar halo seen later at several of our western stations, and a little rain falling in some parts of Ireland and Scotland.

Temperature highest 55° to 60° at several of the Mediterranean stations, and also on the coasts of the Iberian Peninsula (Palma and Oran 60°, Brindisi 55°, Barcelona and Algiers 58°). Lowest 24° at Kharkov, 27° at Nicolaioff, 30° at Kiev and Moscow, 32° at Cracow, 33° at Warsaw, Breslau, and Odessa, and 35° at Archangel, St Petersburg, Riga, Libau, and Parnau. Subsequently rising to between 55° and 60° in many parts of the United Kingdom and to 62° at Leith, but sharp ground frost occurring over England at night.

Winds light S^W or S^W in the extreme west and north of our Islands, strong to gale from the W^W over the north of Scandinavia; light or moderate from the same quarter over Northern Russia and the Baltic. Light or moderate from the E^W over Central Europe, and from the NE^W or N^W over the greater part of England, the coast of France, the Iberian Peninsula and Italy. Variable or S^W over the east of France and also in Algeria. No important change occurring later.

Barometer highest, 30.2 ins: and upwards, in a long but somewhat narrow band extending from the North Sea across Denmark and North Germany to the west and south of Russia, and also in two smaller areas lying respectively over Central England and to the southwest of Ireland. Lowest, 29.1 ins: and less, in a large depression lying over the Kola peninsula and the White Sea; low 29.7 ins: and less, in a shallow system lying over the south of Italy. Gradients rather steep over Northern Europe. Slight fall taking place during day in most of the western countries.

EXPLANATION OF 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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DAILY WEATHER REPORT.

for Sunday 6th April.

1890.

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.		Direct.	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.			Direct.	Force. (0 to 12.)		Max.
SCANDINAVIA.																		
Haparanda ...	29.25	36	W	2	c	29.22	-14	35	34	+3	SW	2	c	*	43	20	0.04	
Hernösand ...	29.66	41	WNW	2	c	29.59	-13	42	36	0	W	4	c	*	54	36	—	
Stockholm ...	29.74	45	W	4	c	29.80	-10	41	38	+5	W	2	c	*	54	34	—	
Wisby ...	29.89	41	W	4	c	29.85	-12	39	37	+1	WNW	4	c	*	54	34	—	
Bodö ...	29.38	37	WSW	3	c	29.43	0.0	40	38	-1	WSW	6	c	3	41	37	0.12	
SCANDINAVIA.																		
Christiansund ...	29.69	42	WSW	8	c	29.62	-20	43	41	+1	WSW	7	o	6	46	39	0.12	
Skudesnaes ...	29.99	39	2	0	c	29.83	-18	40	39	-1	SE	2	o	2	46	36	—	
Christiania Fjord (Pæder) ...	29.84	44	WSW	4	c	29.84	-10	39	35	-2	WSW	2	bc	1	45	37	—	
Skagen (The Scaw) ...	29.91	40	W	1	c	29.86	-16	40	39	-1	2	0	c	0	48	34	—	
Fanö ...	30.01	36	NW	2	c	29.91	-21	37	37	-7	SE	2	f	*	50	34	—	
SCANDINAVIA.																		
Sumburgh Head ...	29.88	45	W	4	c	29.61	-34	44	43	-1	SW	1	o	2	49	40	—	
Stornoway ...	29.91	47	SW	4	bc	29.61	-42	45	45	0	W	4	o	4	51	41	0.03	
Wick ...	29.93	48	SW	1	c	29.66	-40	45	42	-1	SW	2	c	1	57	37	—	
Nairn ...	29.93	50	2	0	bc	29.69	-40	43	41	-1	WSW	1	bc	1	55	38	—	
Aberdeen ...	30.00	44	SE	2	c	29.69	-41	45	43	+1	SW	1	c	1	54	42	0.06	
SCANDINAVIA.																		
Leith ...	29.99	50	SE	2	bc	29.73	-37	46	45	-2	W	1	cm	*	58	41	0.04	
Shields ...	30.03	48	2	0	bc	29.77	-33	44	43	+3	2	1	om	2	58	39	—	
Spurn Head ...	30.02	45	SE	2	c	29.82	-20	45	43	+2	2	3	om	2	49	36	—	
York ...	30.03	52	E	1	c	29.81	-31	47	45	+14	2	1	c	*	61	32	0.01	
Loughborough ...	30.02	56	SE	1	o	29.86	-29	46	45	+16	SW	3	o	*	64	32	—	
SCANDINAVIA.																		
Androssan ...	29.99	49	SW	1	o	29.75	-30	48	46	+2	WNW	4	bc	3	53	45	0.26	
Malin Head ...	29.96	45	SE	3	om	29.77	-36	45	44	0	SW	3	bc	2	50	42	0.11	
Mullaghmore ...	29.93	50	N	2	om	29.81	-31	46	44	0	SW	4	bc	3	53	42	—	
Belmullet ...	29.98	47	WNW	2	o	29.82	-32	46	48	+2	WSW	3	o	*	53	43	0.05	
Donaghadee ...	30.00	48	SW	3	c	29.82	-33	46	45	0	NW	4	bc	2	50	45	0.07	
SCANDINAVIA.																		
Liverpool (Bidston) ...	30.03	51	WNW	1	o	29.83	-31	45	44	-1	W	2	o	3	54	45	0.04	
Holyhead ...	30.04	49	SW	1	om	29.85	-29	49	47	+3	WNW	3	bc	2	55	44	0.27	
Parsonstown ...	29.97	54	2	0	T	29.86	-28	43	42	-3	2	0	bc	*	59	37	0.03	
Valencia ...	30.02	50	SW	1	o	29.85	-29	50	50	+1	WNW	2	om	2	54	45	0.11	
Roche's Point ...	30.04	50	SW	4	T	29.86	-29	50	49	0	SW	3	Tm	3	54	45	0.01	
SCANDINAVIA.																		
Pembroke (St. Ann's Hd.) ...	30.07	47	SW	1	m	29.89	-26	47	47	+4	SW	3	f	3	53	42	0.12	
Scilly ...	30.09	50	WSW	4	c	29.93	-22	51	50	+2	WSW	5	c	5	53	45	0.04	
Prawle Point ...	30.00	48	WSW	2	c	29.99	-16	48	48	-3	SW	4	f	3	56	45	0.05	
Jersey (St. Aubin's) ...	30.10	51	NW	3	bc	30.03	-10	49	47	0	WSW	4	om	3	54	39	0.01	
Hurst Castle ...	30.08	47	WSW	3	bc	29.96	-18	48	47	+7	WSW	4	mo	2	56	41	—	
SCANDINAVIA.																		
Dungeness ...	30.02	47	E	1	c	29.94	-12	46	45	+6	WSW	3	o	2	52	38	—	
London ...	30.04	47	SW	1	bc	29.92	-21	50	45	+10	SW	1	o	*	58	40	—	
Oxford ...	30.04	52	WSW	1	o	29.91	-24	46	42	+9	SW	2	o	*	61	37	—	
Cambridge ...	30.05	53	N	1	c	29.90	-23	50	45	+15	2	1	o	*	61	34	—	
Yarmouth ...	30.05	45	NNE	3	c	29.88	-22	45	44	+1	SW	1	cm	2	49	38	—	
SCANDINAVIA.																		
Cuxhaven ...	30.04	44	NNE	2	c	29.93	-20	44	42	+3	SE	2	c	*	51	37	—	
Berlin ...	30.01	52	2	0	c	29.94	-21	45	41	+4	2	2	o	*	57	37	—	
Wiesbaden ...	*	*	*	*	*	29.96	-06	43	40	-5	SE	2	c	*	59	37	—	
Munich ...	29.98	44	SW	5	c	30.02	+01	46	43	+7	SW	5	c	*	54	39	—	
The Helder ...	30.03	43	NNE	1	c	29.92	-16	43	42	-1	WNW	1	c	1	50	41	—	
SCANDINAVIA.																		
Brussels (a.m.) ...	*	*	*	*	*	29.98	-06	43	40	+3	WSW	1	c	*	60	39	—	
Cape Gris Nez ...	*	43	NE	2	c	?	?	44	42	+2	SW	3	o	3	50	41	—	
Paris ...	30.00	57	WNW	2	c	30.05	+03	40	37	-2	SW	1	c	*	62	35	—	
Brest ...	30.10	51	WNW	1	c	30.07	-07	50	48	+5	W	3	m	3	66	43	—	
Lorient ...	30.08	51	WNW	3	m	30.08	-03	48	47	+5	W	2	m	4	59	43	—	
SCANDINAVIA.																		
Rocheport ...	30.13	53	NW	4	c	30.15	+05	48	46	+3	NW	3	c	2	61	39	—	
Belfort ...	30.00	51	NE	1	c	30.08	+04	44	42	+2	WNW	1	c	*	62	39	—	
Lyons ...	29.98	51	SW	2	c	30.00	+03	52	43	+2	ENE	4	o	1	63	46	—	
Nice ...	30.02	53	SW	2	o	30.08	+07	52	46	+1	W	2	c	*	63	48	—	
Perpignan ...	30.10	54	NW	3	c	30.14	+07	52	48	0	N	3	bc	2	57	50	—	
Biarritz ...	30.10	54	NW	3	c	30.14	+07	52	48	0	N	3	bc	2	57	50	—	
SCANDINAVIA.																		
Corunna ...	29.99	50	WNW	5	c	30.20	+03	53	48	-3	NNE	1	c	4	57	39	—	
Lisbon ...	29.99	50	WNW	5	c	30.09	+11	53	47	-1	2	0	c	4	66	50	—	

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, 6th April,

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:

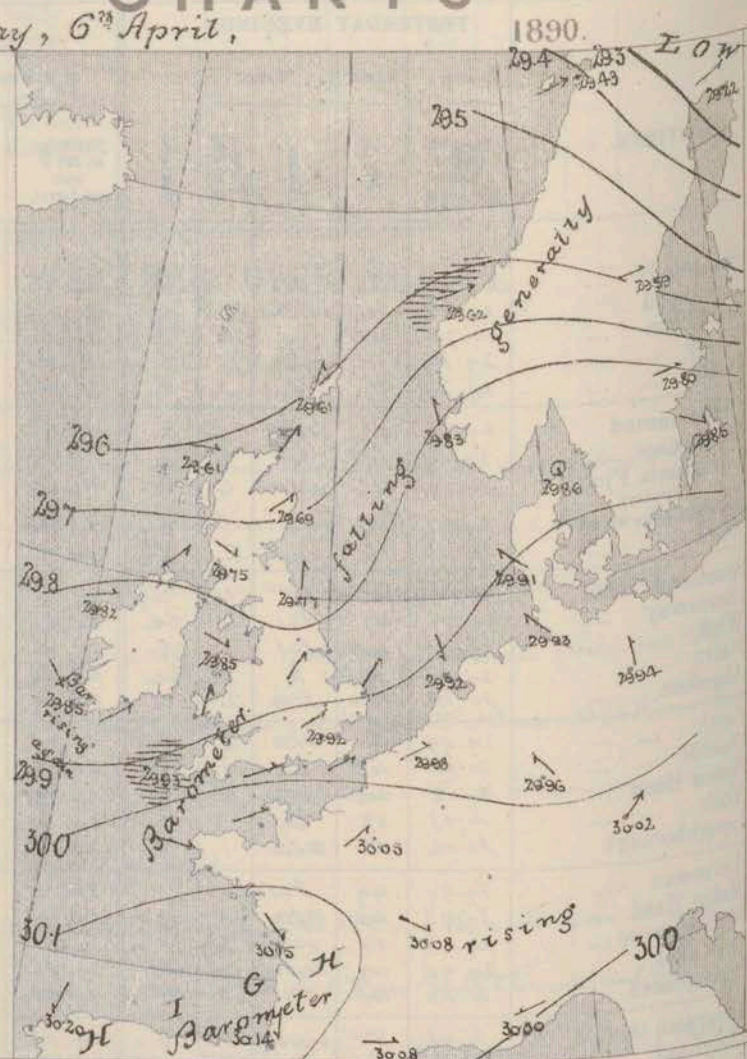
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of April.

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.849
Stornoway	29.821
Wick	29.853
Nairn	29.853
Aberdeen	29.862
Leith	29.865
Shields	29.870
York	29.877
Loughborough	29.878
Ardrossan	29.857
Donaghadee	29.853
Holyhead	29.851
Liverpool	29.864
Parsonstown	29.853
Valencia	29.855
Roche's Point	29.838
Pembroke	29.844
Scilly	29.849
Jersey	29.867
Hurst Castle	29.867
Dover	29.866
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.876



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.1 in. and upwards, over the north of Spain, the southwest of France, and the southern parts of the Bay of Biscay.
Lowest, 29.3 in. and less, in a depression lying over the inland.
Gradients moderate over Scandinavia, but slight elsewhere.
Barometer falling at all but the French and Spanish stations.

TEMPERATURE

Highest, 53° at Corunna and Lisbon, 52° at Biarritz, Perpignan, and Nice, 51° at Scilly, and 50° at Valencia, Rocher Point, Brest, and in London.
Lowest, 35° at Haparanda, 34° at Kuiv, 33° at Janda and Nisby, 30° at Bodø, Skutumpah, Skogen, and Lure.
A considerable rise has taken place since yesterday morning over the Central parts of England.

WIND

Light or moderate from the SWnd over the greater part of our Islands, but Wnd at some of our western stations, and NWnd at Anderson, Donaghadee, and Valencia.
Strong from SW or W over the northern parts of Scandinavia.
Light from SE. in Denmark, and from NW or N. in the west of France.

WEATHER

Fine over the greater part of Western Europe, but dull over the southern and extreme northern parts of the United Kingdom and also in the west of Norway.
Fog is reported at some of our southern stations, and rain is falling at Stromsøy, Rocher Point, Brest, and Jersey.
Since yesterday, rain has fallen at most of our western and central of our northern stations.

SEA

Rough at Christiansund, and rather rough at Scilly, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 7th APRIL 1890.

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.		
Skudeanaes ...	29.99	46	42	NW	4	c	3		Holyhead ...	30.10	52	49	NW	1	cm
Sumburgh Head ...	29.91	47	44	W	4	bc	4		Valencia ...	30.08	54	53	SW	2	o
Stornoway ...	29.98	51	48	SW	3	c	3		Scilly ...	30.11	52	49	W/NW	3	c
Aberdeen ...	30.04	50	43	SE	2	c	3		Jersey ...	30.11	53	46	N	3	cm
Shields ...	30.08	51	45	NE	1	c	2		Dungeness ...	30.05	50	47	E	2	cm
Ardrossan ...	30.06	50	47	SW	1	cm	1		London ...	30.06	56	49	E	1	cm
Mullin Head ...	30.06	49	47	ENE	2	o	3		Yarmouth ...	30.08	49	46	ENE	3	cm
Mullaghmore ...	30.04	52	47	S	2	cm	3		Rochefort ...	30.13	58	53	NW	3	cm
Belmullet ...	30.04	50	50	SW	2	o	*								

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

Weather fine over nearly the whole of Europe, but dull, both at the most northern and most southern stations and rainy over several parts of Algeria; somewhat unsettled over the northern and western parts of the Kingdom, where some showers fell very generally later in the day. Appearance of sky unsettled over London later in the day.

Temperature ranging between 50° and 63° on the coasts of the Mediterranean and on the coasts of the Iberian Peninsula, lower elsewhere, especially over Eastern and Northern Europe and the inland parts of Great Britain. Lowest of all 23° at Archangel, 32° at Haparanda and Skellefteå and Loughborough, 33° at York and over Finland. Rising to upwards of 60° over the inland parts of England later.

Wind W and SW over Northern Europe, the Baltic and Scotland, light to moderate in most places but strong from SW in the northwest of Norway. Chiefly E or NE over Southern Europe and the Bay of Biscay. Very variable and light over Eastern and Central Europe. SW to NW winds spreading over the British Islands and their neighbourhood later.

Barometer, highest, 30.1 ins and more in a broad band extending from the Atlantic (off our western and southern coast) across England and the North Sea to Germany, Central and Southern Europe; lowest 29.3 ins and less, in the extreme north of Russia and 29.9 ins and less, over Algeria. Fresh fall taking place over the British Islands later, and a V-shaped depression advancing over the northern parts of the Kingdom from the Atlantic.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

WEATHER.—Beaufort Scale in 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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for

Monday, 7th April,

1890.

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.	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.
SCANDINAVIA.																		
Haparanda ...	29.25	36	Z	0	bc	29.30	+ .08	28	28	- 7	NE	2	S	*	43	27	-	
Hernösand ...	29.52	35	Z	0	b	29.31	- .28	34	34	- 5	Z	0	b	*	52	32	-	
Stockholm ...	29.66	39	SSW	2	0	29.47	- .33	44	41	+ 3	SW	2	b	*	59	36	-	
Wisby ...	29.76	40	SW	4	b	29.55	- .30	44	41	+ 5	S	4	c	*	52	36	-	
BRITISH ISLANDS.																		
Christiansund ...	29.41	43	SW	2	c	29.12	- .50	42	38	- 1	ESE	3	0	3	46	41	0.12	
Skudesnaes ...	29.60	41	SSE	8	f	29.15	- .68	42	41	+ 2	SSE	8	r	5	?	39	0.08	
Christiania Fjord (Færd)	29.62	40	SSW	5	0	29.36	- .48	40	40	+ 1	SSE	4	r	2	43	39	-	
Skagen (The Scaw)	29.58	41	SW	2	0	29.38	- .48	41	40	+ 1	SW	2	0	2	45	39	-	
Fanø ...	29.63	42	SW	3	c	29.44	- .47	43	43	+ 6	SW	4	f	*	48	37	-	
Sumburgh Head	29.35	45	SSW	1	r	29.14	- .47	42	39	- 2	N	4	c	3	48	36	0.32	
Stornoway ...	29.32	44	SW	2	r	29.35	- .26	44	43	- 1	NE	6	r	6	49	35	1.07	
Wick ...	29.32	45	SW	3	0	29.25	- .41	42	40	- 3	N	5	c	3	53	36	0.46	
Nairn ...	29.39	48	W	4	c	29.23	- .46	40	40	- 3	WNW	5	0	3	55	38	0.20	
Aberdeen ...	29.47	51	S	4	OgU	29.17	- .52	42	40	- 3	NW	5	OgU	4	57	40	-	
Leith ...	29.54	49	W	5	c	29.20	- .53	45	42	- 1	W	5	b	*	57	42	0.05	
Shields ...	29.64	53	SW	3	bc	29.24	- .53	42	41	- 2	SW	3	b	2	57	43	0.03	
Spurn Head ...	29.68	50	W	2	c	29.33	- .49	49	47	+ 4	SW	5	OgP	3	54	45	0.01	
York ...	29.71	52	W	1	b	29.33	- .48	41	40	- 6	WNW	1	r	*	58	39	0.14	
Loughborough	29.74	55	SW	2	c	29.39	- .47	48	46	0	SW	4	OgU	*	61	46	0.23	
GERMANY.																		
Ardrossan ...	29.55	49	SSW	4	0	29.26	- .49	46	44	- 2	W	6	cqP	4	53	?	0.23	
Malin Head ...	29.48	46	SSW	6	OgP	29.40	- .37	44	43	- 1	WNW	6	bqP	4	52	41	0.20	
Mullaghmore ...	29.61	48	SW	5	OgP	29.62	- .29	47	44	+ 1	NW	7	cqP	6	53	45	0.32	
Belmullet ...	29.65	49	W	6	OgP	29.65	- .17	46	45	- 2	WNW	5	b	*	51	46	0.41	
Donaghadee ...	29.63	51	SW	3	c	29.39	- .43	46	44	0	WNW	5	b	3	55	45	0.06	
FRANCE AND BELGIUM.																		
Liverpool (Bidston)	29.75	50	WNW	1	c	29.41	- .42	46	43	+ 1	W	5	c	4	51	43	0.21	
Holyhead ...	29.76	47	SW	4	bc	29.48	- .37	49	46	0	W	5	bqP	5	56	44	0.13	
Parsonstown ...	29.76	49	SSW	2	r	29.61	- .25	47	43	+ 4	NW	2	b	*	54	41	0.12	
Valencia ...	29.85	51	WSW	4	0	29.76	- .09	48	45	- 2	NW	3	OgP	4	53	47	0.24	
Roche's Point...	29.82	52	WNW	4	c	29.68	- .18	50	45	0	WNW	5	c	4	59	48	-	
NETHERLANDS.																		
Pembroke (St. Ann's Hd.)	29.80	46	W	3	c	29.61	- .28	48	44	+ 1	WNW	6	bqP	6	49	45	0.24	
Scilly ...	29.87	49	W	4	f	29.73	- .20	49	42	- 2	WSW	6	r	5	53	46	0.09	
Prawle Point ...	29.85	48	WNW	4	f	29.67	- .32	47	42	- 1	SW	6	ru	4	49	45	0.21	
Jersey (St. Aubin's)	29.94	50	SSW	3	0	29.81	- .22	48	47	- 1	W	5	OgP	4	51	46	0.18	
Hurst Castle ...	29.85	48	WSW	4	f	29.62	- .34	47	47	- 1	WSW	6	or	4	49	46	0.06	
PORTUGAL.																		
Dungeness ...	29.85	48	WSW	4	0	29.62	- .32	46	46	0	W	6	f	5	49	45	0.01	
London ...	29.81	50	SSW	2	0	29.55	- .37	48	46	- 2	SSW	4	OgP	*	55	46	0.06	
Oxford ...	29.77	52	SW	1	0	29.50	- .41	47	46	+ 1	SSW	3	OgP	*	56	45	0.07	
Cambridge ...	29.77	55	SW	1	bc	29.45	- .45	49	47	- 1	SW	3	r	*	59	45	0.02	
Yarmouth ...	29.76	55	W	4	bc	29.46	- .42	48	47	+ 3	WSW	5	c	3	56	45	0.02	
ITALY.																		
Cuxhaven ...	29.85	45	WNW	3	b	29.59	- .34	47	46	+ 3	SW	5	0	*	50	?	-	
Berlin ...	29.83	53	SW	2	c	29.72	- .24	47	44	+ 2	SSW	2	0	*	59	41	-	
Wiesbaden ...	*	*	*	*	*	29.80	- .16	46	42	+ 3	W	1	c	*	63	37	-	
Munich ...	29.98	48	Z	0	bc	29.40	- .12	46	42	0	SW	4	b	*	57	36	-	
The Helder ...	29.77	45	SSW	2	0	29.49	- .43	46	46	+ 3	SW	3	f	3	50	43	0.08	
AFRICA.																		
Brussels (9 a.m.)	*	*	*	*	*	29.67	- .31	48	47	+ 5	SW	3	r	*	59	?	0.04	
Cape Gris Nez	?	46	W	4	0	?	?	46	43	+ 2	W	4	f	4	50	43	-	
Brest ...	29.95	57	WNW	2	0	29.82	- .23	48	47	+ 8	SW	3	0	*	?	?	-	
Lorient ...	29.97	51	SW	3	m	29.89	- .18	50	48	0	NW	3	0	3	64	45	0.35	
Rochefort ...	30.00	51	W	3	0	29.84	- .24	48	47	0	WNW	4	0	4	52	46	0.12	
ASIA.																		
Belfort ...	30.14	52	NW	3	0	30.02	- .13	52	52	+ 4	WSW	5	0	?	61	45	0.08	
Lyons ...	29.95	61	W	1	b	29.88	- .13	51	37		W	1	b	*	68	41	-	
Nice ...	29.99	53	NW	2	b	29.97	- .11	48	43	+ 4	SSE	1	b	*	63	43	-	
Perpignan ...	29.95	53	NE	1	0	29.90	- .10	47	45	- 5	NE	5	r	2	61	45	0.08	
Biarritz ...	30.02	56	NW	3	b	30.01	- .07	52	46	0	W	2	b	*	62	47	-	
Corunna ...	30.13	55	WNW	3	bc	30.07	- .07	52	48	0	WSW	4	0	2	61	50	-	
Lisbon ...	30.09	56	NW	4	b	30.12	+ .03	54	51	+ 1	N	4	b	2	68	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 Monday 7th April

1890.

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:

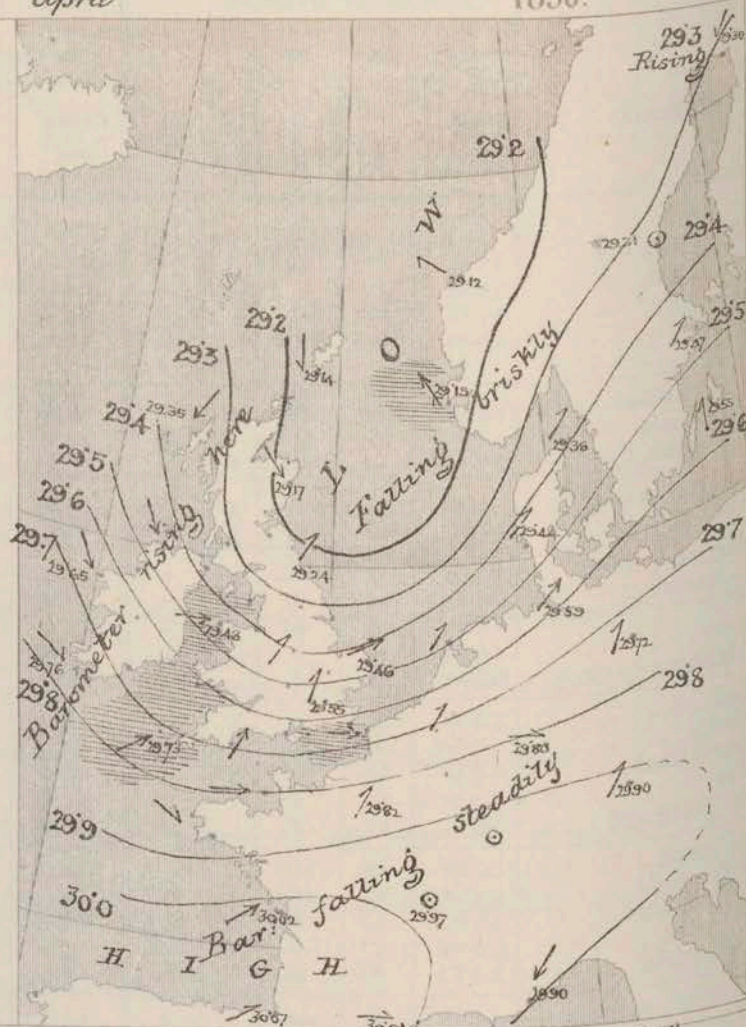
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of April.

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.849
Stornoway	29.821
Wick	29.853
Nairn	29.853
Aberdeen	29.862
Leith	29.865
Shields	29.870
York	29.877
Loughborough	29.878
Ardrossan	29.867
Donaghadee	29.853
Holyhead	29.851
Liverpool	29.864
Parsonstown	29.853
Valencia	29.835
Roche's Point	29.838
Pembroke	29.844
Silly	29.849
Jersey	29.867
Hurst Castle	29.867
Dover	29.806
LONDON	29.817
Oxford	29.882
Cambridge	29.879
Yarmouth	29.876



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.

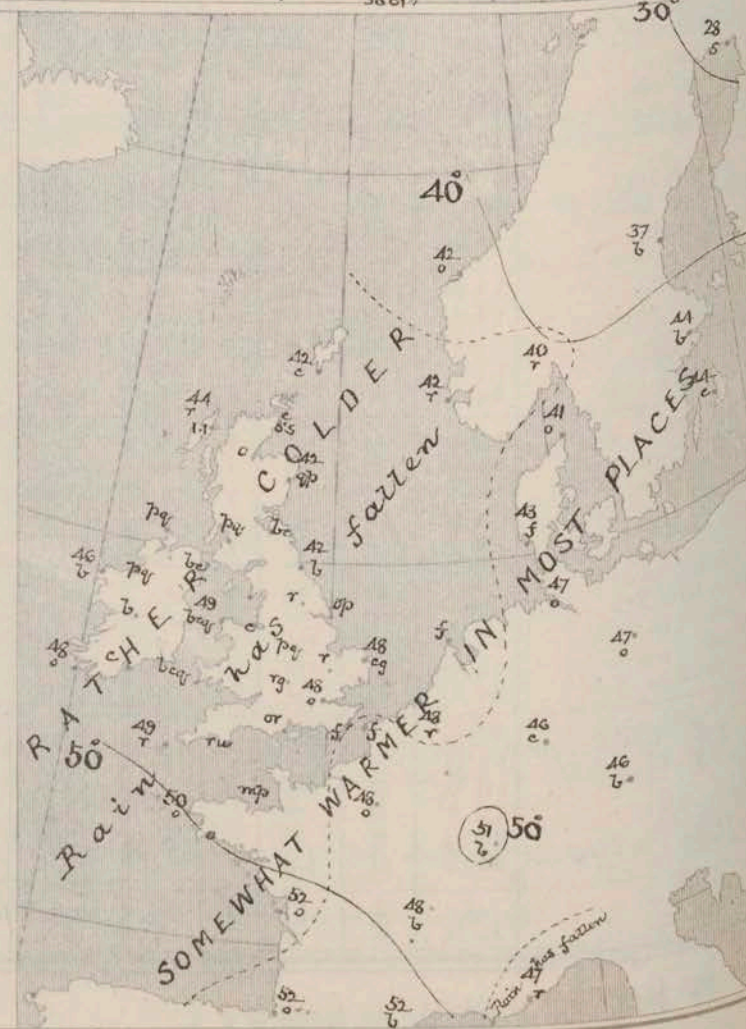
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of April.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Dry, at 8 a.m.	Wet.	
Sumburgh Head	46.3	37.3	41.9	40.5	2.16
Stornoway	49.3	37.5	41.1	42.3	2.51
Wick	49.2	37.4	43.2	41.2	1.56
Nairn	51.5	37.9	43.1	40.6	1.23
Aberdeen	49.6	38.5	43.4	40.9	2.23
Leith	52.6	38.2	44.2	42.1	1.65
Shields	49.2	39.2	43.8	41.7	1.94
York	54.1	37.8	41.1	42.0	1.86
Loughborough	55.7	38.3	45.1	42.6	1.77
Ardrossan	52.1	39.9	44.6	42.2	2.23
Donaghadee	51.3	40.1	44.8	43.2	2.02
Holyhead	51.9	42.4	46.2	44.2	1.86
Liverpool	53.0	40.7	45.5	42.6	1.58
Parsonstown	55.0	38.3	45.7	43.0	2.15
Valencia	54.3	42.9	48.1	45.9	4.01
Roche's Point	54.2	42.4	47.0	44.9	3.43
Pembroke	50.8	42.1	45.6	43.6	2.10
Silly	52.5	45.0	49.0	47.1	2.46
Jersey	54.6	43.6	49.0	46.4	2.04
Hurst Castle	52.3	41.4	45.9	41.6	1.87
Dover	51.5	42.4	47.1	44.5	1.81
LONDON	50.7	40.0	46.8	43.8	1.80
Oxford	55.1	39.3	45.0	42.7	1.79
Cambridge	56.2	37.7	45.5	43.3	1.76
Yarmouth	49.5	40.4	45.1	43.4	1.80

NOTE.—The Temperature means are for the 15 years 1871-85; the Rainfall means are mainly those for the 20 years 1866-85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.1 in: and upwards over Portugal.
 Lowest, 29.2 in: and less, in a depression lying between the Scotch and Norwegian coasts.
 Gradients irregular, — rather steep over some parts of our Islands and the North Sea.
 Barometer rising again on our extreme western coasts, but falling elsewhere, — briskly over the North Sea.

TEMPERATURE

Highest, 54° at Lisbon, 52° at Rochefort, Brest, and Biscaya, 50° at Humber Point and Brest, and 49° at Spurn H., Holyhead, Selly, and Cambridge.
 Lowest, 28° at Kapananda, 37° at Kumbhand, 40° at Vardø and Naun, and 41° at Skagen and York.

WIND

Weak or strong from the Nnd in the north of Scotland, from the NWnd in Ireland, and from the Wnd or SWnd over England.
 Light or moderate from the SWnd over Denmark, the Netherlands, Germany, and the east of France.
 SE^{ly} in Norway, with a gale at Lofodenaes.

WEATHER

Rainy in the extreme south of England, and also in the south of Norway; showery over the United Kingdom generally.
 Foggy in the Straits of Dover and also at Haré and the Helder, fine in Sweden, South Germany, and the east of France.
 Since yesterday morning rain has fallen generally, the largest amount being 1.1 in: at Stormorway and 0.5 in: at Mirk.

SEA

Rough on many parts of our western, southern, and extreme northern coasts, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

In addition to the depression over the North Sea several small shallow disturbances are advancing over the Kingdom from the westward. Showery weather is therefore likely to continue in most districts.

FORECASTS

For the 24 hours ending at NOON on 8th APRIL 1890.

DISTRICTS.

FORECASTS.

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

NW^{ly} and N^{ly} winds, strong to moderate; squally and showery to fair.

Same as No 5

SW^{ly} to W^{ly} winds, fresh or strong; squally and showery at first, but improving temporarily later.

DISTRICTS.

FORECASTS

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

W^{ly} and NW^{ly} winds, strong to moderate; squally and showery to fair.

NW^{ly} winds, moderating and backing to the SW^{ly}; changeable, some rain.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnes ...	29.69	41	39	SSE	6	0	4		Holyhead ...	29.81	52	47	SW	3	6
Sumburgh Head ...									Valencia ...						
Stornoway ...	29.52	46	46	SW	6	7	5		Scilly ...						3
Aberdeen ...									Jersey ...	29.99	49	48	SW	4	3
Shields ...									Dungeness ...	29.89	49	47	WSW	3	8
Ardrossan ...									London ...						
Malin Head ...	29.64	52	48	W	5	6c	3		Yarmouth ...						2
Mullaghmore ...									Rochefort ...	30.16	58	54	NW	3	
Belmullet ...	29.73	50	49	SW	4	0	*								

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

The Continental Information has not arrived.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 30TH MARCH TO THE 5TH APRIL '90.

With the exception of a few showers at some of our western and northern stations the weather this week has been fine and dry in all parts of Western Europe.

These conditions have been brought about by a large anticyclone which first appeared over our Islands on the 31st March, and which has since spread eastwards over the greater part of Europe. In the northern districts the wind has been either variable or light from the southwest, but in the south it has been mainly E. & N.E., and at the Channel stations it has been frequently strong in force. Over Scandinavia, where the weather has been affected by some large depressions which have travelled eastwards across Lapland, the S.W. & W. wind has occasionally reached the force of a gale. At the close of the week the anticyclone appeared to be gradually giving way, and light S.W. breezes were setting in on all our western and northern coasts.

Temperature has been rather low for the time of year, especially over England, where some sharp night frosts have been experienced. On the night of the 1st April the thermometer on the grass fell to 21° in London and to 18° at Oxford, while on the night of the 4th a grass minimum of 17° was registered in the southern suburbs of London. The daily maxima have been mostly below 60° and frequently below 55°. In the northern parts of Great Britain the thermometer on the 31st March did not reach 50°.

EXPLANATION OF 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).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Tuesday 8th April 1890.
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.	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 ...	29.33	24	NE	2	C	29.54	+24	20	19	-1	NE	4	0	*	28	?	0.00		
Hernösand ...	29.26	40	SE	2	C	29.38	+07	32	31	-1	ENE	8	0	*	50	?	0.00		
Stockholm ...	29.32	40	SE	2	C	29.25	-22	44	41	0	SE	2	0	*	57	37	—		
Wisby ...	29.39	43	SE	6	C	29.25	-30	49	45	+5	S	4	0	*	57	37	—		
Bodo ...	29.39	31	N	2	C	29.58	—	28	25	—	NE	2	0	2	36	27	—		
SCANDINAVIA.																			
Christiansund	29.05	43	ENE	4	0	29.30	+18	37	36	-1	NNE	9	0	4	45	37	—		
Skudenes	29.09	41	NW	7	0	29.00	-15	40	39	-2	NW	7	0	5	43	37	0.51		
Christiania Fjord (Færd)	29.12	41	SE	2	0	29.06	-14	41	39	+1	ENE	5	0	4	41	39	0.35		
Skagen (The Scaw)	29.08	41	SE	4	0	29.84	-54	39	39	-2	S	6	0	3	48	39	0.20		
Fanø ...	29.10	41	WSE	5	C	29.20	-24	43	40	0	WNW	6	0	*	45	39	0.20		
SCANDINAVIA.																			
Sumburgh Head	29.34	40	N	3	C	29.42	+28	37	36	-1	N	7	0	6	45	33	0.25		
Stornoway ...	29.57	40	N	6	0	29.79	+44	41	40	-1	N	6	0	5	48	34	0.60		
Wick ...	29.46	39	N	5	C	29.61	+36	41	38	-1	N	8	0	6	46	35	0.21		
Nairn ...	29.53	43	WNW	4	0	29.66	+43	38	37	-2	WNW	6	0	5	47	35	0.06		
Aberdeen ...	29.47	41	WNW	5	C	29.49	+32	40	38	-2	NW	7	0	6	48	32	0.21		
SCANDINAVIA.																			
Leith ...	29.57	46	WNW	4	C	29.62	+42	42	38	-3	NW	4	0	*	54	36	0.01		
Shields ...	29.45	45	NW	4	C	29.56	+32	44	40	+2	NW	4	0	3	52	34	0.01		
Spurn Head ...	29.47	45	WNW	7	C	29.52	+19	41	39	-1	NW	7	0	5	49	38	0.17		
York ...	29.48	48	N	2	C	29.60	+27	42	37	+1	N	1	0	*	52	35	0.10		
Loughborough	29.55	49	NW	4	C	29.65	+26	42	39	-6	WNW	3	0	*	52	37	0.07		
BRITISH ISLANDS.																			
Ardrossan	29.58	48	NW	6	C	29.69	+43	44	41	-2	NW	5	0	2	51	39	—		
Malin Head ...	29.71	44	WNW	5	C	29.82	+42	43	40	-1	WNW	6	0	4	47	40	0.02		
Mullaghmore ...	29.86	46	NW	6	C	29.91	+39	44	40	-3	NW	6	0	5	51	42	0.00		
Belmullet ...	29.86	48	WNW	5	C	29.92	+27	45	44	-1	N	4	0	*	50	43	0.12		
Donaghadee ...	29.68	46	NNE	6	C	29.77	+38	45	43	-1	NNE	6	0	4	51	43	0.02		
BRITISH ISLANDS.																			
Liverpool (Bidston)	29.62	45	WNW	6	C	29.69	+28	44	40	-2	NW	5	0	4	50	40	0.02		
Holyhead ...	29.68	46	N	5	C	29.76	+28	45	41	-4	WNW	5	0	5	52	42	—		
Parsonstown ...	29.82	49	NW	2	C	29.91	+30	43	41	-4	N	0	0	*	52	40	0.04		
Valencia ...	29.94	50	NW	8	C	29.99	+23	48	47	0	N	2	0	2	53	46	0.09		
Roche's Point...	29.80	52	WNW	5	C	29.94	+26	45	43	-5	WNW	4	0	4	54	44	0.06		
BRITISH ISLANDS.																			
Pembroke (St. Ann's Hd.)	29.74	49	NW	3	C	29.84	+23	45	43	-3	NW	6	0	5	51	43	0.02		
Seilly ...	29.81	50	NW	6	C	29.89	+16	48	45	-1	NW	6	0	5	53	46	0.01		
Prawle Point ...	29.70	47	NW	4	C	29.83	+16	45	43	-2	NW	3	0	2	54	41	0.07		
Jersey (St. Aubin's)	29.70	48	WNW	4	C	29.83	+12	48	43	0	WNW	4	0	3	51	44	0.11		
Hurst Castle ...	29.62	51	NW	5	C	29.73	+11	46	44	-1	WNW	5	0	4	54	40	0.04		
BRITISH ISLANDS.																			
Dungeness ...	29.47	52	NW	3	C	29.63	+11	44	41	-2	NW	3	0	3	54	33	0.07		
London ...	29.55	46	NW	4	C	29.66	+11	43	39	-5	NW	3	0	*	56	36	0.07		
Oxford ...	29.65	40	N	1	C	29.69	+19	42	38	-5	WNW	3	0	*	54	35	0.10		
Cambridge ...	29.58	45	NW	3	0	29.63	+18	44	41	-5	NW	3	0	*	57	34	0.20		
Yarmouth ...	29.41	43	WNW	5	C	29.53	+07	42	40	-6	NW	4	0	3	52	35	0.15		
GERMANY.																			
Cuxhaven ...	29.30	45	SE	6	C	29.33	-26	42	40	-5	NW	5	0	*	51	41	0.10		
Berlin ...	29.46	54	SE	5	C	29.38	-34	45	43	-2	WNW	2	0	*	63	43	0.04		
Wiesbaden ...	29.50	53	N	2	C	29.50	-30	44	40	-2	NW	2	0	*	55	41	0.16		
Munich ...	29.65	53	N	2	C	29.50	-40	40	40	-6	NW	4	0	*	59	39	0.00		
The Helder ...	29.35	44	WNW	3	C	29.47	-12	40	38	-6	N	3	0	3	46	?	0.12		
FRANCE AND BELGIUM.																			
Brussels (9 a.m.)	?	49	N	5	0	29.60	-07	42	40	-6	N	2	0	*	53	40	0.35		
Cape Gris Nez	?	49	N	5	0	29.60	-07	42	40	-6	N	2	0	*	53	40	0.35		
Paris ...	29.61	50	WNW	4	C	29.72	-10	41	39	-7	WNW	2	0	*	57	36	0.00		
Brest ...	29.80	51	NW	3	0	29.93	+14	50	47	0	N	4	0	3	66	46	0.00		
Lorient ...	29.79	51	WNW	4	0	29.89	+10	47	45	-1	NW	4	0	4	51	45	0.04		
FRANCE AND BELGIUM.																			
Rochefort	29.91	51	WNW	4	0	29.93	-09	48	45	-4	WNW	5	0	*	55	41	0.00		
Belfort ...	29.58	51	N	1	0	29.54	-34	47	36	-4	N	1	0	*	66	35	—		
Lyons ...	29.75	56	N	1	0	29.69	-28	44	41	-4	NW	3	0	*	64	39	0.16		
Nice ...	29.77	48	N	0	C	29.48	-42	46	45	-1	E	3	0	1	54	43	0.00		
Perpignan ...	29.88	57	NW	4	0	29.71	-30	56	51	+4	NW	3	0	*	64	?	—		
Barritz ...	29.99	53	WNW	5	0	29.95	-12	52	?	0	WNW	5	0	3	59	50	—		
SPAIN.																			
Corunna ...	30.13	57	N	4	C	30.09	-03	52	50	-2	N	5	0	5	64	52	—		
Lisbon ...	30.13	57	N	4	C	30.09	-03	52	50	-2	N	5	0	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

Tuesday

8th April

1890.

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:

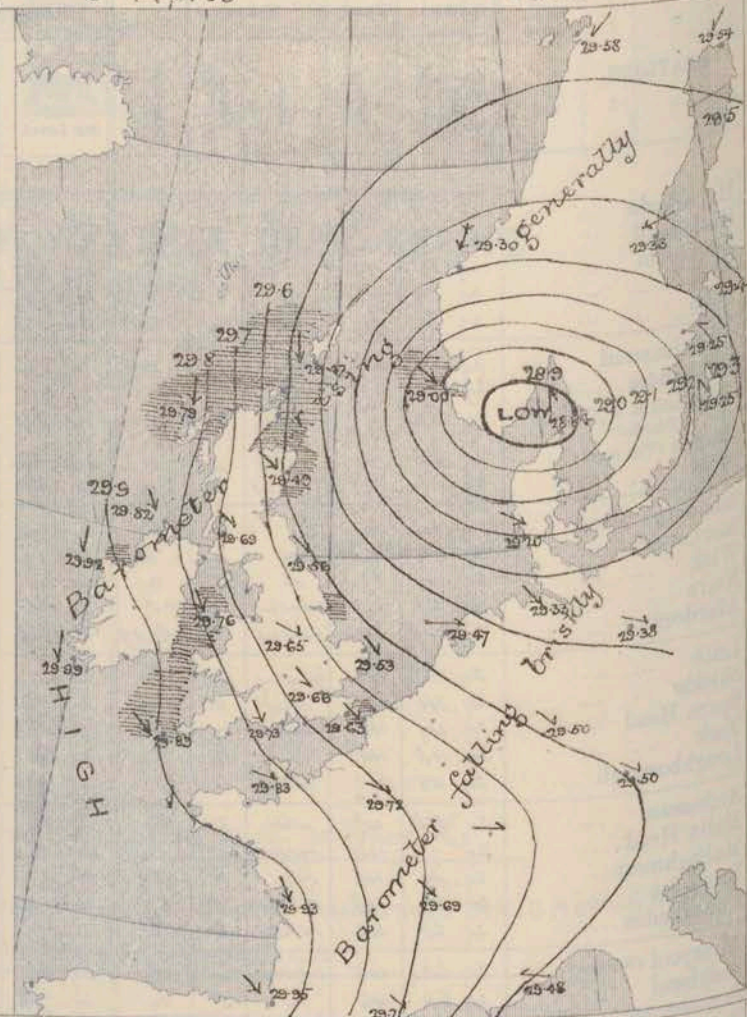
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of April.

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.849
Stornoway	29.821
Wick	29.853
Nairn	29.853
Aberdeen	29.862
Leith	29.865
Shields	29.870
York	29.877
Loughborough	29.878
Ardrossan	29.857
Donaghadee	29.853
Holyhead	29.851
Liverpool	29.864
Parsonstown	29.853
Valencia	29.835
Roche's Point	29.833
Pembroke	29.844
Seilly	29.849
Jersey	29.867
Hurst Castle	29.867
Dover	29.866
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.876



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.

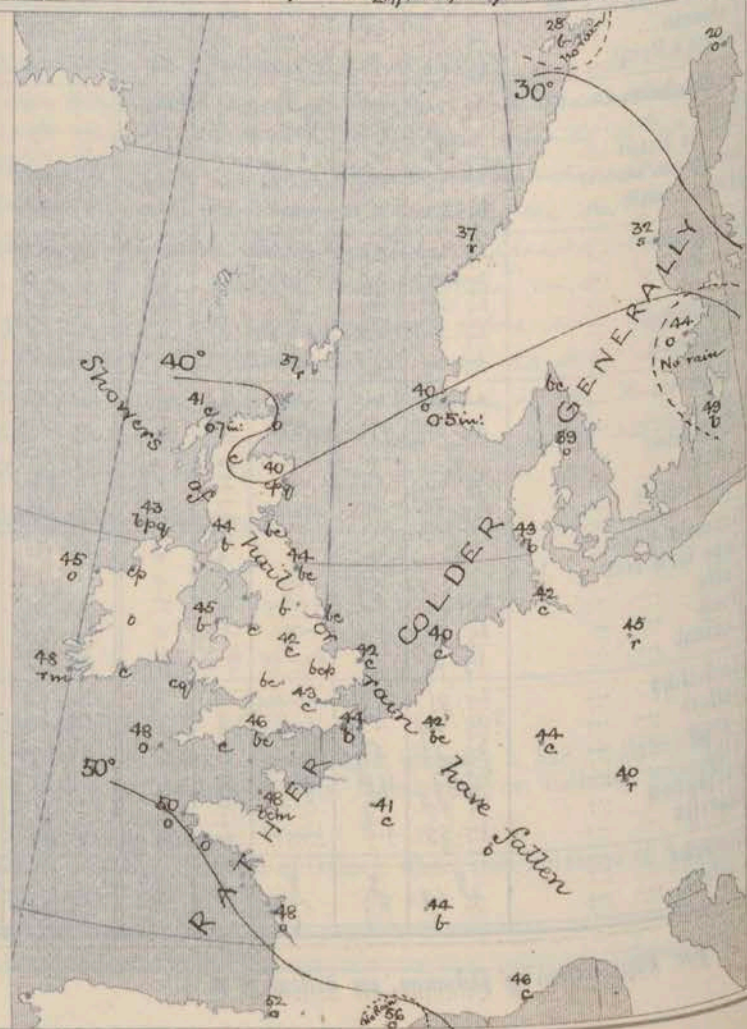
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of April.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	46.3	37.3	41.9	40.5	2.16
Stornoway	49.3	37.5	44.1	42.3	2.51
Wick.....	49.2	37.4	43.2	41.2	1.56
Nairn	51.5	37.9	43.1	40.6	1.23
Aberdeen	49.6	38.5	43.4	40.9	2.23
Leith.....	52.6	38.2	44.2	42.1	1.65
Shields	49.2	39.2	43.8	41.7	1.94
York.....	54.1	37.8	44.1	42.0	1.86
Loughborough	55.7	38.3	45.1	42.6	1.77
Ardrossan	52.1	39.9	44.6	42.2	2.23
Donaghadee.....	51.3	40.1	44.8	43.2	2.62
Holyhead.....	51.9	42.4	46.2	44.2	1.86
Liverpool.....	53.0	40.7	45.5	42.6	1.56
Parsonstown	55.0	38.3	45.7	43.0	2.15
Valencia	54.3	42.9	48.4	45.9	4.01
Roche's Point	54.2	42.4	47.0	44.9	3.43
Pembroke.....	50.8	42.1	45.6	43.6	2.10
Seilly	52.5	45.0	49.0	47.1	2.45
Jersey	54.6	43.6	49.0	45.4	2.04
Hurst Castle	52.3	41.4	45.9	44.6	1.87
Dover	51.5	42.4	47.1	44.5	1.81
LONDON	56.7	40.0	46.8	43.8	1.86
Oxford	55.1	39.3	45.0	42.7	1.79
Cambridge	56.2	37.7	45.5	43.3	1.76
Yarmouth	49.5	40.4	45.1	43.4	1.89

NOTE.—The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 20 years 1866-85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 29.9 ins. to about 30.0 ins. over the west of our Islands, the Bay of Biscay and Spain.
Lowest about 28.9 ins. in the depression lying over the Skager Rack, and 29.5 ins and less over the Gulf of Genoa.

Gradients were rather steep in the north, moderate elsewhere.

Barometer was rising in the northwest and north, falling in the southeast and south.

TEMPERATURE

Highest 58° at Perpignan, 52° at Lisbon and Biarritz, 50° at Brest, 48° at Valencia and Gully.

Lowest 20° at Haparanda, 28° at Bodo, 37° at Dunburgh Head, 39° at the Lizard and 43° in London.

The daily maxima recorded over our Islands yesterday ranged between 50° and 59°, in Germany and France they exceeded 60°.

WIND

N^W, strong to a gale in Scotland, NW^W, fresh to strong over England and the Bay of Biscay, and N^W, fresh in Ireland.

Over Central and eastern France it was lighter, but was generally NW^W in direction.

WEATHER

Somewhat cloudy and unsettled generally; squally in the north and northeast, showing in several places. In London the appearance of the sky was very showery and squally.

Rain, hail, or wet snow fell very generally yesterday, but not in large quantities as a rule.

SEA

Rough on all exposed parts of our coasts, and on the French side of the Channel, roughest in the north and northeast.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

bright intervals.

Squally strong breezes from NW. are still probable, with cold passing showers and

FORECASTS

For the 24 hours ending at NOON on 9TH APRIL

1890.

DISTRICTS.

FORECASTS.

0 SCOTLAND NORTH

1 SCOTLAND EAST

2 ENGLAND N.E.

3 ENGLAND EAST

4 MIDLAND COUNTIES

5 ENGLAND SOUTH

N^W or N^W winds, strong; squally, some cold showers.

NW^W winds, fresh or strong; some passing cold showers, bright intervals

DISTRICTS.

FORECASTS

6 SCOTLAND WEST

7 ENGLAND N.W.

8 ENGLAND S.W.

9 IRELAND NORTH

10 IRELAND SOUTH

NW^W and N^W winds; strong to fresh; cold, a few cold showers.

N^W winds, moderate; cold, gusty, 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.

THER: WIND								THER: WIND									
BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA			
Skudesnaes ...	29. 07	42	42	SSE	8	7 f	5	Holyhead ...	29. 58	49	45	NNW	5	P	4	5	
Sumburgh Head	29. 29	42	39	N	4	C	4	Valencia ...	29. 87	53	47	NNW	4	bcg	5	4	
Stornoway ...	29. 51	47	46	N	4	C	4	Scilly ...	29. 73	51	49	NW	6	0	4	4	
Aberdeen ...	29. 38	47	41	NW	7	bcg p	5	Jersey ...	29. 70	50	49	WPN	5	0	4	4	
Shields ...	29. 37	47	45	NW	5	C	2	Dungeness ...	29. 47	47	46	NNW	5	T	4	4	
Ardrossan ...	29. 50	51	46	WNW	6	C	4	London ...	29. 47	56	47	NNW	4	bc	3	3	
Malin Head ...	29. 62	47	42	NNW	6	bcg	4	Yarmouth ...	29. 37	52	47	WNW	4	C	3	2	
Mullaghmore ...	29. 72	49	44	NW	6	bcg	5	Rochefort ...	29. 97	52	51	WNW	2	0			
Belmullet ...	29. 82	49	47	NNW	5	0	*										

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

Weather cloudy, showery and unsettled over the British Islands and their neighbourhood including the North Sea and the north and west of France, fine generally elsewhere, but cloudy over north Germany. Showers of rain, hail or wet snow falling very generally over western and northwestern Europe, later, heavily in the N. of Scotland and at Skudesnaes. Temperature falling over the United Kingdom rising a little to the eastward of the North Sea. Morning reading above 50° on the Mediterranean and Atlantic coasts of France and Spain, lower elsewhere, but above 60° throughout our Islands. Below 40° over Russia and Sweden only, and as low as 23° at Archangel and 28° at Haparanda. Rising during day to between 50° and 59° over our Islands, and to between 60° and 65° in many parts of France.

Winds moderate S^W and S^E over the Baltic and Scandinavia, S^W in Denmark and the Netherlands, W^W and S^W rather strong, over England and NW^W to N^W, strong and squally, in Ireland and Scotland. Very light and variable over eastern, central and southern Europe, NW^W wind spreading all over western Europe later, and blowing very strongly on the northeast coast of Scotland.

Barometer highest 30.1 ins. and more to 30.0 ins. over Spain and the southwest of France, as well as over southern and southeastern Russia; lowest 29.2 ins. and less in a complex depression lying over the northern parts of the North Sea, and 29.8 ins. and less in a shallow complex system over the eastern and southeastern parts of the Mediterranean. Northern depression moving eastwards later and growing deeper, but less complex.

EXPLANATION OF 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).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

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Belmu
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DAILY WEATHER REPORT.

for

Wednesday, 9th April,

1890.

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 ...	29.71	21	NE	2	C	29.80	+ .26	19	18	- 1	NE	4	0	*	24	16	-	
Hernösand ...	29.58	26	NE	8	S	29.72	+ .34	25	24	- 7	N	4	0	*	41	25	0.39	
Stockholm ...	29.44	42	S	2	O	29.60	+ .35	34	33	- 10	N	5	0	*	57	?	-	
Wisby ...	29.47	43	SSW	4	O	29.54	+ .29	39	38	- 10	NNE	2	0	*	55	39	0.04	
Bodö ...	29.78	24	NE	2	C	29.82	+ .24	24	20	- 4	ENE	4	6	2	30	19	-	
SCANDINAVIA.																		
Christiansund ...	29.61	36	NNE	8	O	29.63	+ .33	36	32	- 1	NNE	3	0	+	37	34	-	
Skudeanaes ...	29.21	44	NNW	4	C	29.56	+ .56	41	39	+ 1	SE	2	0	3	43	37	0.20	
Christiania Fjord (Færder)	28.97	40	SSW	3	C	29.59	+ .63	38	36	- 3	ENE	2	0	3	41	37	0.04	
Skagen (The Scaw)	29.00	41	SW	1	C	29.55	+ .71	41	39	+ 2	SE	1	0	1	43	34	-	
Fanö ...	29.37	39	S	5	C	29.39	+ .19	32	37	+ 5	SE	6	C	*	45	37	0.04	
SCANDINAVIA.																		
Sumburgh Head ...	29.71	38	N	7	O	29.77	+ .35	37	34	- 3	N	1	C	5	40	33	-	
Stornoway ...	29.98	41	N	5	O	29.93	+ .14	40	39	- 1	SW	2	0	3	45	35	-	
Wick ...	29.85	39	N	7	C	29.85	+ .24	39	38	- 2	N	4	Cph	3	45	38	0.05	
Nairn ...	29.88	41	NNW	5	C	29.91	+ .25	39	35	+ 1	NNW	4	C	4	45	35	0.05	
Aberdeen ...	29.74	40	NNW	7	C	29.86	+ .37	38	35	- 2	NNW	4	C	7	43	35	0.08	
SCANDINAVIA.																		
Leith ...	29.80	46	NNW	4	C	29.91	+ .29	41	36	- 1	NNW	3	C	*	50	38	-	
Shields ...	29.70	43	NNW	7	C	29.84	+ .28	41	39	- 3	NNW	4	C	6	47	38	-	
Spurn Head ...	29.62	41	NNW	8	C	29.78	+ .26	40	38	- 1	N	7	C	8	46	39	0.09	
York ...	29.68	42	N	4	C	29.85	+ .25	40	36	- 2	NNW	3	C	*	50	38	-	
Loughborough ...	29.72	44	NW	5	C	29.89	+ .24	41	35	- 1	NNW	3	C	*	52	38	-	
SCANDINAVIA.																		
Ardrossan ...	29.85	47	NNW	4	C	29.93	+ .24	42	38	- 2	NW	3	C	2	51	36	-	
Malin Head ...	29.98	44	NNW	6	C	29.99	+ .17	43	39	- 1	NNW	3	C	2	45	41	-	
Mullaghmore ...	30.05	45	NNW	6	C	30.05	+ .14	45	41	- 1	NNW	4	C	2	49	40	-	
Belmullet ...	30.12	47	N	3	C	30.05	+ .13	45	42	- 1	SW	1	C	*	49	34	-	
Donaghadee ...	29.92	46	NNE	5	C	29.97	+ .20	44	41	- 1	NNE	6	C	4	49	41	-	
SCANDINAVIA.																		
Liverpool (Bidston)	29.79	46	NNW	6	C	29.93	+ .24	44	38	- 2	NNW	3	C	3	49	39	-	
Holyhead ...	29.58	45	N	6	C	29.96	+ .20	43	38	- 2	N	5	C	5	47	41	-	
Parsonstown ...	30.02	48	NW	2	C	30.08	+ .17	40	37	- 3	SE	0	C	*	52	33	-	
Valencia ...	30.11	49	N	3	C	30.11	+ .12	47	43	- 1	E	1	C	1	52	42	-	
Roche's Point...	29.99	52	N	5	C	30.09	+ .15	44	40	- 1	NNW	3	C	3	54	39	-	
SCANDINAVIA.																		
Pembroke (St. Ann's Hd.)	29.92	45	N	6	C	30.00	+ .16	43	40	- 2	NNW	4	C	4	50	40	0.01	
Scilly ...	29.99	49	NNW	6	C	30.03	+ .14	45	42	+ 3	NNW	6	C	4	49	42	-	
Prawle Point ...	29.86	46	NNW	5	C	29.99	+ .16	47	43	+ 2	NNW	4	C	3	51	36	0.03	
Jersey (St. Aubin's)	29.79	50	NW	5	C	29.97	+ .14	48	41	- 1	NW	4	C	3	52	43	-	
Hurst Castle ...	29.75	49	NNW	4	C	29.92	+ .19	44	42	- 2	NNW	3	C	4	53	34	0.02	
SCANDINAVIA.																		
Dungeness ...	29.62	48	N	4	C	29.81	+ .18	42	37	- 2	NNW	5	C	4	50	39	0.02	
London ...	29.73	39	NNW	6	C	29.86	+ .20	42	36	- 1	N	2	C	*	51	39	0.09	
Oxford ...	29.79	42	NW	3	C	29.92	+ .23	41	35	- 1	NW	4	C	*	51	35	0.02	
Cambridge ...	29.70	45	NW	3	C	29.84	+ .21	42	38	- 2	N	3	C	*	55	38	0.01	
Yarmouth ...	29.55	41	NW	5	C	29.71	+ .18	40	38	- 2	NNW	6	C	5	47	37	0.24	
SCANDINAVIA.																		
Cuxhaven ...	29.43	43	N	3	C	29.43	+ .10	39	39	- 3	SSW	4	C	*	45	38	0.02	
Berlin ...	29.51	48	NW	1	C	29.55	+ .17	42	39	- 3	NW	3	C	*	54	39	-	
Wiesbaden ...	*	*	*	*	*	29.63	+ .13	38	36	- 6	NW	1	C	*	48	32	0.04	
Munich ...	29.53	37	NW	3	C	29.56	+ .06	36	35	- 4	NW	4	C	*	43	34	0.28	
The Helder ...	29.41	42	N	2	C	29.53	+ .06	42	40	+ 2	NNW	4	C	4	45	39	0.12	
SCANDINAVIA.																		
Brussels (a.m.)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Cape Gris Nez	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Paris ...	29.67	44	NNW	3	C	29.82	+ .10	41	37	- 1	NW	3	C	3	53	37	-	
Brest ...	29.91	49	N	6	C	30.02	+ .13	43	40	- 4	NNW	3	C	2	57	41	0.04	
Lorient ...	29.85	49	N	5	C	30.02	+ .13	43	40	- 4	NNW	3	C	2	57	41	0.04	
SCANDINAVIA.																		
Rochefort ...	29.86	47	NNW	6	C	30.02	+ .09	45	42	- 3	NNW	5	C	2	52	37	0.20	
Belfort ...	29.56	47	NW	1	C	29.65	+ .11	47	37	- 1	NW	1	C	*	60	35	-	
Lyons ...	29.64	41	N	3	C	29.74	+ .05	37	35	- 7	N	4	C	*	52	35	0.12	
Nice ...	29.24	50	NE	2	C	29.19	+ .29	44	36	- 2	ENE	4	C	2	61	39	0.04	
Perpignan ...	29.75	49	NW	6	C	29.73	+ .02	44	37	- 12	NW	6	C	*	59	41	0.08	
Biarritz ...	29.94	52	NW	6	C	29.99	+ .04	49	44	- 3	NNW	3	C	3	55	41	0.12	
SCANDINAVIA.																		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lisbon ...	30.02	37	NNW	5	C	30.00	+ .09	53	50	+ 1	N	6	C	2	64	50	-	

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, 9th April

1890.

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:

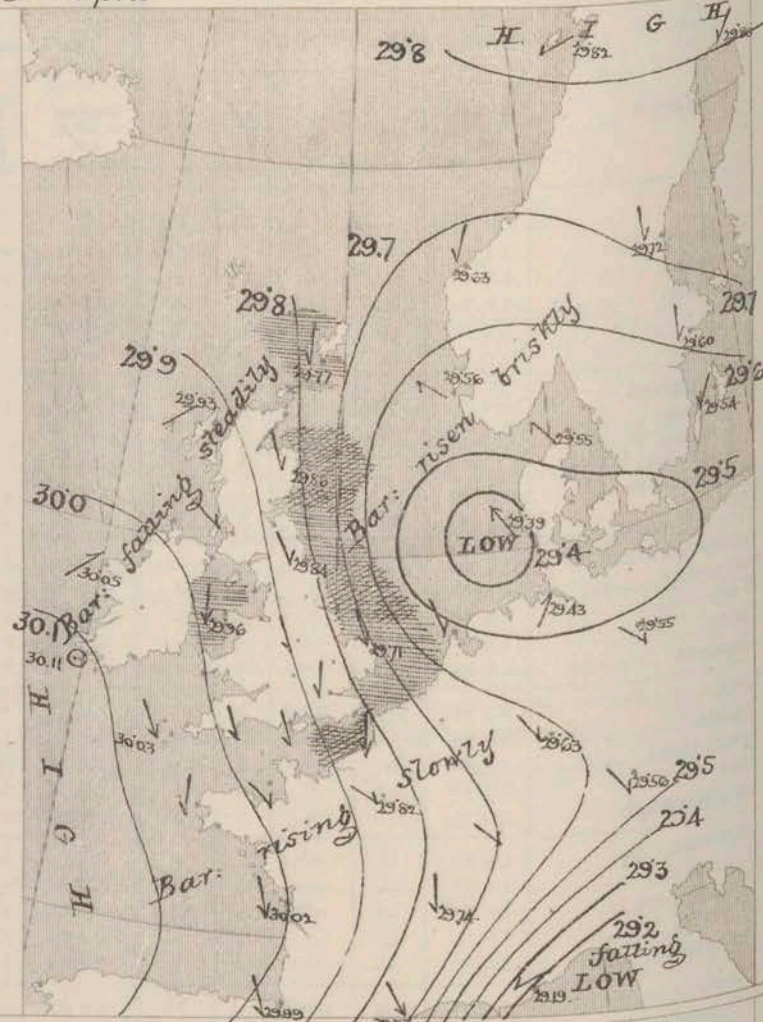
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of April.

During the 15 Years: 1871-1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.849
Stornoway	29.821
Wick	29.853
Nairn	29.853
Aberdeen	29.862
Leith	29.865
Shields	29.870
York	29.877
Loughborough	29.878
Ardrossan	29.857
Donaghadee	29.853
Holyhead	29.851
Liverpool	29.864
Parsonstown	29.853
Valencia	29.835
Roche's Point	29.838
Pembroke	29.844
Scilly	29.849
Jersey	29.867
Hurst Castle	29.867
Dover	29.866
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.876



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.

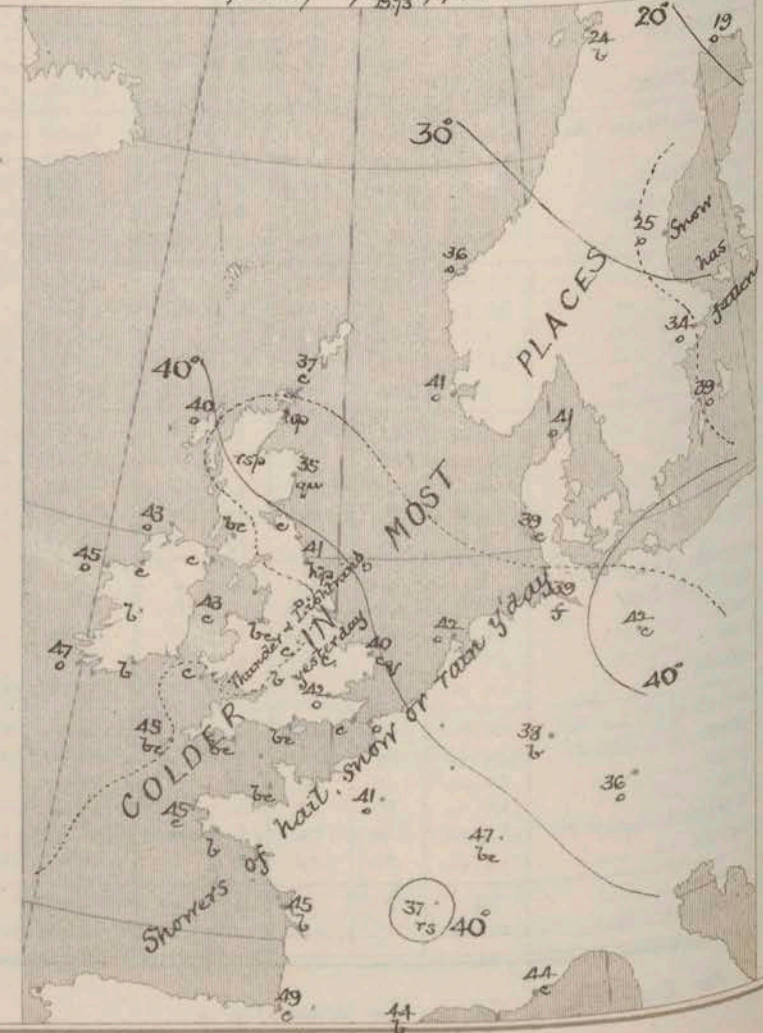
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of April.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sunburgh Head.....	46.3	37.3	41.9	40.5	2.16
Stornoway	49.3	37.5	41.1	42.3	2.51
Wick	49.2	37.4	43.2	41.2	1.56
Nairn	51.5	37.9	43.1	40.6	1.23
Aberdeen	49.6	38.5	43.4	40.9	2.23
Leith	52.6	38.2	44.2	42.1	1.65
Shields	49.2	39.2	43.8	41.7	1.94
York	54.1	37.8	44.1	42.0	1.86
Loughborough	55.7	38.3	45.1	42.6	1.77
Ardrossan	52.1	39.9	44.6	42.2	2.23
Donaghadee.....	51.8	40.1	44.8	43.2	2.02
Holyhead.....	51.9	42.4	46.2	44.2	1.86
Liverpool	53.0	40.7	45.5	42.6	1.56
Parsonstown	55.0	38.3	45.7	43.0	2.15
Valencia	54.3	42.9	48.4	45.9	4.01
Roche's Point	54.2	42.4	47.0	44.9	3.43
Pembroke.....	50.8	42.1	45.6	43.6	2.10
Scilly	52.5	45.0	49.0	47.1	2.45
Jersey	54.6	43.6	49.0	46.4	2.04
Hurst Castle	52.3	41.4	45.9	44.6	1.87
Dover	51.5	42.4	47.1	44.5	1.81
LONDON	56.7	40.0	46.8	43.8	1.86
Oxford	55.1	39.3	45.0	42.7	1.79
Cambridge	56.2	37.7	45.5	43.3	1.76
Yarmouth	49.5	40.4	45.1	43.4	1.80

NOTE.—The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 20 years 1866-85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.0 ins. to 30.1 ins. and more, over Ireland, the west of France, the Bay of Biscay and northwest of Spain.
 Lowest, 29.4 ins. and less, in a depression lying over the eastern part of the North Sea, 29.2 ins. at Kiel.
 Gradient moderate and decreasing in our Islands, steep over the Riviera and southeast of France.
 Barometer beginning to fall on our west and northwest coasts, rising in the east and south.

TEMPERATURE

Highest, 53° at Lisbon, 43° at Biarritz and Seilly, 47° at Bawle Point and Valencia.
 Lowest, 13° at Kaparanda, 24° at Bodo, 25° at Lerwand, 37° to 39° in the northeast of Scotland, 36° at Munich, 42° in London.
 The minimum temperatures during the night were as low as 33° to 35° at most of the inland stations and in many places frost occurred on the grass.
 The thermometer is apparently now rising quickly over Ireland.

WIND

N⁴ and NW⁴ over nearly the whole of our Islands, strong and equally in many places.
 In Ireland and the west of Scotland it has fallen light, and backed to SW. at one or two stations.
 The gale in the northeast has died down.

WEATHER

Cloudy, changeable, and unsettled, squally in the east and northeast, with hail and sleet showers at several Scotch stations.
 In London the appearance of the sky is again showerlike and unsettled.
 Squalls of snow hail and rain occurred over Great Britain yesterday, with thunder in many places.

SEA

High on our northeast coasts, rough in the east generally, and on the French coast, moderate to smooth in the west.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression in the east is filling up quickly, and a decrease of wind is likely to take place over England and the North Sea, with finer and colder weather. With the new disturbance now advancing towards us from the westward a shift of wind to the SWrd is probable with milder but not settled weather.

FORECASTS

For the 24 hours ending at NOON on 10th APRIL 1890.

DISTRICTS.

FORECASTS.

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

Wind backing to SW. again with milder and unsettled weather after a temporary improvement.

NW⁴ winds, strong, some showers, then cold and fair tonight; milder tomorrow, but becoming unsettled again.

DISTRICTS.

FORECASTS

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

Same as N^o 0 to 2.

Same as N^o 5.

Wind backing to SWrd and increasing; milder, fair to showery and very unsettled.

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 ...	29.06	48	44	N	5	c	4	Holyhead ...	29.82	46	42	N	6	b	3
Sumburgh Head	29.64	39	35	N	4	o	7	Valencia ...	30.07	52	47	N	4	cm	5
Stornoway ...	29.93	40	40	N	6	c	5	Scilly ...	29.89	48	45	WNW	6	c	3
Aberdeen ...	29.65	41	37	WNW	9	q p r h u	5	Jersey ...	29.79	51	47	WNW	4	c	3
Shields ...	29.59	44	41	WNW	7	q p	6	Dungeness ...	29.61	47	42	N	4	c	*
Ardrossan ...	29.78	51	46	WNW	5	c	4	London ...	29.63	50	42	NW	5	c	4
Malin Head ...	29.94	45	40	WNW	6	c	4	Yarmouth ...	29.55	47	41	NW	5	c q p	4
Mullaghmore ...	30.00	47	43	WNW	6	c q p	5	Rochefort ...	29.93	50	47	NW	5	o	?
Belmullet ...	30.07	48	45	N	4	c	*								

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

Weather changeable and unsettled over nearly the whole of Europe. Cold showers falling in many parts of the United Kingdom, steady rain in Germany, and snow at Uleaborg and Heriöland. Squalls of hail and sleet passing over Great Britain during day, and thunder and lightning occurring at some of the English stations, but weather improving somewhat on our western coasts.

Temperature highest 55° to 60° over the Mediterranean, the Adriatic and the coast of the Iberian Peninsula (Apto 60°, Barcelona and Brindisi 59°, Trieste and Algiers 58°). Lowest 20° at Copavanda, 22° at Archangel, 28° at Bodö and Uleaborg, 32° at Heriöland, 37° at Christiansund and Sumburgh Hd., and 38° at Naiv; below 45° in all the more more northern and eastern parts of the United Kingdom. Daily maxima very little above 50° in any part of Western Europe.

Wind N⁵ in the extreme north and west of our Islands, but NW⁵ in nearly all ^{other} parts of Western Europe; strong to a gale in force over Scotland the North Sea, and the east of England. Light from the S⁵ over Austria, Russia and the Baltic; E⁵ or NE⁴ in Scandinavia, with a gale at Heriöland and Christiansund. Light from the W⁵ or NW⁴ at most of the Italian stations, and from the S⁵ in Algeria. Subsequently increasing to a strong gale (in squalls) on the east coast of Scotland.

Barometer highest, 30.2 ins: and upwards, in an anticyclone lying off the northwest of Spain, high 30.0 ins: and upwards, in another area lying over the south of Russia. Lowest 28.3 ins: and less, in a well marked depression having its centre near the Skager Rack; low 29.5 ins: and less, in a shallower system lying to the westward of Corsica and Sardinia; gradients rather steep over Scandinavia, the North Sea and the north of our Islands. Small secondary disturbances travelling southwards across Great Britain during day, but depression over Skager Rack beginning to fill up.

EXPLANATION OF 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. ngly, 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).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

SCANDINAVIA.
Hapa
Herna
Stock
Wisb
Bodö
Chris
Skude
Chris
Skage
Fano
Sumb
Storn
Wick
Nairn
Aberc
Leith
Shiele
Spurr
York
Long
Aldro
Malin
Mulle
Belm
Dona
Liver
Holy
Parsc
Valer
Roch
Pemb
Scilly
Praw
Jerse
Hurs
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Brus
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Bres
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DAILY WEATHER REPORT.

for *Thursday, 10th April, 1890.*
 Issued by the Meteorological Office, 63, Victoria Street, London. *R. H. SCOTT, Secretary.*

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 ...	29.82	22	NE	4	0	29.88	+ 0.8	24	24	+ 5	NE	4	0	*	25	12	-
Hernösand ...	29.83	25	NNE	4	0	29.79	+ 0.7	22	21	- 3	N	4	0	*	34	21	-
Stockholm ...	29.67	30	N	6	0	29.51	- 0.9	32	31	- 2	NNE	6	0	*	43	30	0.04
Wisby ...	29.53	36	NE	4	0	29.45	- 0.9	37	37	- 2	NNE	4	0	*	45	36	-
Bodö ...	29.89	25	ENE	2	0	29.95	+ 0.13	26	22	+ 2	ENE	2	0	*	28	19	-
Christiansund ...	29.62	36	ENE	1	C	29.61	- 0.02	36	33	0	E	2	C	2	39	34	-
Skudesnaes ...	29.60	38	NNW	3	0	29.60	+ 0.04	38	35	- 3	NNW	2	0	3	45	34	-
Christiania Fjord (Pærd)	29.60	44	ESE	3	0	29.64	+ 0.05	34	32	- 4	ESE	4	C	3	45	34	-
Skagen (The Scaw)	29.54	41	SE	3	C	29.56	+ 0.01	37	35	- 4	SE	4	0	3	50	37	0.12
Fanø ...	29.45	41	SE	4	C	29.44	+ 0.05	39	39	+ 1	N	2	C	*	43	37	0.32
Sumburgh Head	29.72	35	N	2	S	29.73	- 0.04	37	34	0	N	2	0	3	40	30	0.06
Stornoway ...	29.79	31	E	2	0	29.85	- 0.08	38	37	- 2	E	2	0	2	44	34	0.08
Wick ...	29.77	36	N	4	0	29.81	- 0.04	39	35	0	N	2	C	2	41	33	-
Nairn ...	29.78	39	E	1	C	29.84	- 0.07	37	35	- 2	NNW	1	C	1	44	35	0.01
Aberdeen ...	29.78	39	NNW	2	C	29.80	- 0.06	38	34	0	NW	4	C	3	43	34	0.06
Leith ...	29.78	44	NW	3	C	29.85	- 0.06	40	36	- 1	NNW	2	0	*	51	36	-
Shields ...	29.78	41	NE	2	0	29.80	- 0.04	39	37	- 2	NW	4	C	4	45	33	0.07
Spurn Head ...	29.77	42	N	5	C	29.72	- 0.06	37	36	- 3	N	2	C	4	44	35	0.09
York ...	29.81	45	N	1	C	29.79	- 0.06	38	36	- 2	N	3	0	*	46	34	0.02
Loughborough	29.84	45	WNW	3	C	29.77	- 0.12	38	37	- 3	NNE	3	0	*	48	36	0.01
BRITISH ISLANDS.																	
Ardrossan ...	29.78	41	NW	1	r	29.87	- 0.06	43	40	+ 1	WNW	3	C	2	49	36	0.10
Malin Head ...	29.70	45	NNW	8	C	29.92	- 0.07	40	39	- 3	NNW	5	C	4	48	39	0.16
Mullaghmore ...	29.88	47	NW	7	C	29.99	- 0.06	43	41	- 2	N	5	C	4	49	40	0.30
Belmullet ...	29.49	48	NW	5	C	30.04	- 0.01	45	44	0	NNW	4	C	*	50	41	0.19
Donaghadee ...	29.81	42	WSW	2	r	29.91	- 0.06	43	42	- 1	NE	4	C	2	49	42	0.06
Liverpool (Bidston)	29.84	43	W	2	C	29.84	- 0.09	38	36	- 6	NE	3	0	3	47	36	0.26
Holyhead ...	29.87	43	WSW	4	m	29.86	- 0.10	40	39	- 3	NE	4	C	4	49	39	0.20
Parsonstown ...	29.93	48	NW	3	C	29.99	- 0.09	43	39	+ 3	NW	2	C	*	51	38	0.03
Valencia ...	30.07	50	NNW	4	C	30.09	- 0.02	45	41	- 2	N	5	C	5	52	44	0.04
Roche's Point...	29.90	50	NNW	5	C	30.00	- 0.09	45	41	+ 1	N	5	C	4	53	43	0.02
Pembroke (St. Ann's Hd.)	29.92	45	WSW	4	C	29.80	- 0.20	43	41	0	N	6	C	5	47	41	0.03
Scilly ...	29.99	47	NW	4	C	29.84	- 0.19	46	43	+ 1	NW	3	C	4	49	43	0.03
Prawle Point ...	29.92	43	NNW	3	C	29.73	- 0.26	45	43	- 2	NNW	5	C	3	53	39	0.01
Jersey (St. Aubin's)	29.95	47	NW	3	C	29.74	- 0.23	47	42	- 1	WNW	6	C	4	49	41	0.05
Hurst Castle ...	29.82	48	NW	3	C	29.68	- 0.24	42	41	- 2	WNW	3	C	3	51	40	0.02
Dungeness ...	29.81	44	NNW	3	C	29.68	- 0.13	40	38	- 2	NNE	2	C	1	47	38	0.02
London ...	29.86	45	N	2	C	29.71	- 0.15	39	37	- 3	NE	1	C	*	48	37	0.05
Oxford ...	29.84	41	NW	1	C	29.74	- 0.18	38	37	- 3	N	3	0	*	49	35	0.10
Cambridge ...	29.84	43	NW	0	C	29.74	- 0.10	40	39	- 2	N	1	0	*	51	35	0.01
Yarmouth ...	29.77	43	NNW	5	C	29.70	- 0.01	42	38	+ 2	NNE	3	C	3	44	36	0.01
GERMANY.																	
Cuxhaven ...	29.46	43	W	4	0	29.50	+ 0.07	41	40	+ 2	W	5	C	*	47	?	0.10
Berlin ...	29.57	49	NW	3	0	29.61	+ 0.06	41	39	- 1	W	3	C	*	55	37	-
Wiesbaden ...	*	*	*	*	*	29.74	+ 0.11	41	38	+ 3	SW	2	C	*	46	37	0.08
Munich ...	29.67	39	NW	3	0	29.73	+ 0.17	34	34	- 2	NW	5	0	*	43	34	0.08
The Helder ...	29.67	41	NW	4	C	29.68	+ 0.15	39	37	- 3	NNW	3	C	3	43	37	0.04
FRANCE AND BELGIUM.																	
Brussels (9 a.m.)	*	*	*	*	*	29.75	?	39	37	?	SSW	1	0	*	45	36	0.04
Cape Gris Nez	?	43	NNW	5	0	?	?	42	41	+ 1	NW	2	0	2	46	39	-
Paris ...	29.89	44	NNW	2	0	29.80	- 0.02	37	34	- 4	SW	2	0	*	46	33	-
Brest ...	30.01	48	N	3	C	29.88	?	47	45	+ 2	N	5	C	3	54	43	-
Lorient ...	29.99	48	NNW	3	m	29.84	- 0.18	45	43	+ 2	NW	4	C	3	52	41	-
Rochefort ...	30.02	49	NW	5	C	29.94	- 0.08	46	42	+ 1	NNW	3	0	?	54	34	-
Belfort ...	29.75	41	NW	2	0	29.75	+ 0.10	41	34	- 6	W	1	C	*	59	32	-
Lyons ...	29.82	41	N	4	T	29.87	+ 0.13	35	33	- 2	NNW	2	C	*	44	?	0.04
Nice ...	29.40	47	SW	4	C	29.54	+ 0.25	47	38	+ 3	ESE	5	C	1	55	41	-
Perpignan ...	29.81	50	NW	6	C	29.89	+ 0.16	48	42	+ 4	NW	4	C	*	54	43	-
Barritz ...	30.03	51	NW	5	C	29.95	- 0.04	50	43	+ 1	NW	3	C	2	54	43	0.08
Corunna ...	*	*	*	*	*	?	?	?	?	?	?	?	?	?	?	?	-
Lisbon ...	29.89	59	NNW	5	0	29.91	- 0.09	55	46	+ 2	NNE	5	C	?	66	?	-

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, 10th April

1890.

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 backs 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:

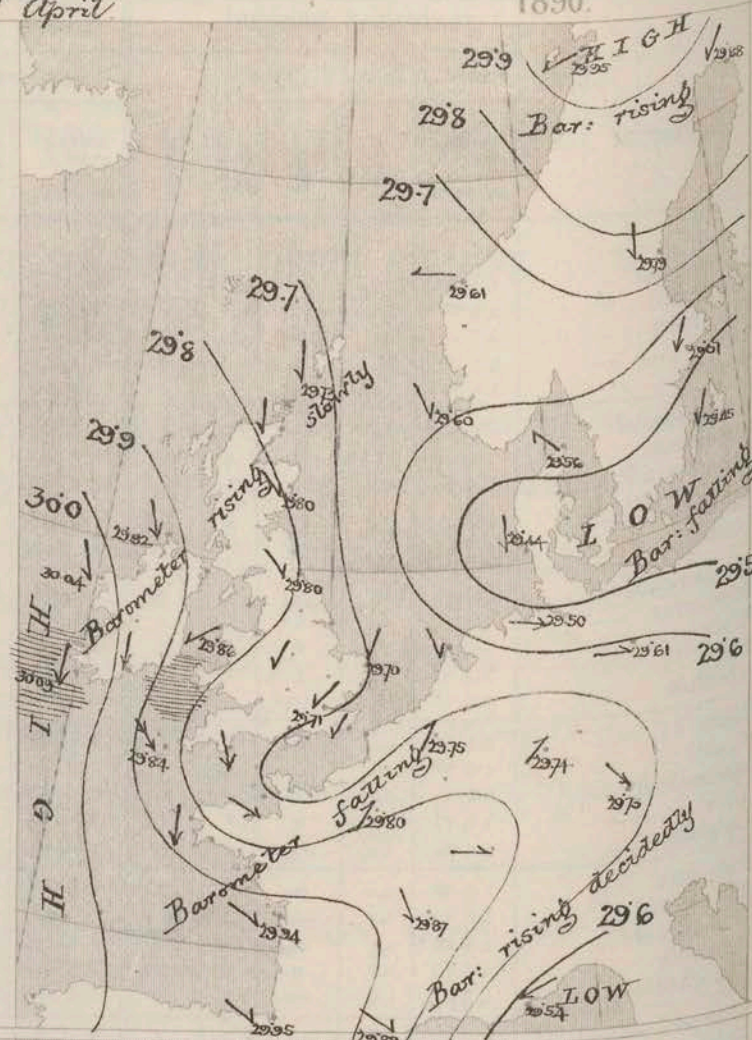
— = Rough. — = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of April.

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.849
Stornoway	29.821
Wick	29.853
Nairn	29.853
Aberdeen	29.862
Leith	29.865
Shields	29.870
York	29.877
Loughborough	29.878
Ardrossan	29.857
Donaghadee	29.853
Holyhead	29.851
Liverpool	29.864
Parsonstown	29.853
Valencia	29.835
Roche's Point	29.838
Pembroke	29.844
Seilly	29.849
Jersey	29.867
Hurst Castle	29.867
Dover	29.866
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.876



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.

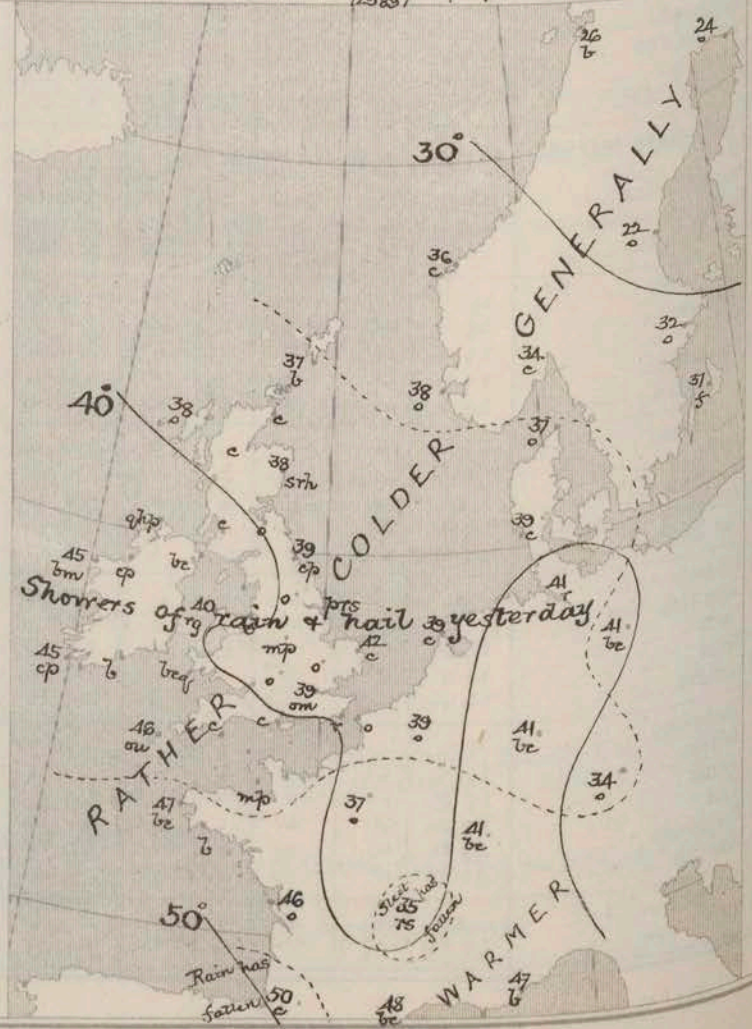
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of April.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.	at 8 a.m.	
Sumburgh Head	46.3	37.3	41.9	40.5	2.16
Stornoway	49.6	37.5	44.1	42.3	2.51
Wick	49.2	37.4	43.2	41.2	1.56
Nairn	51.5	37.9	43.1	40.6	1.23
Aberdeen	49.6	38.5	43.4	40.9	2.23
Leith	52.6	38.2	44.2	42.1	1.65
Shields	49.2	39.2	43.8	41.7	1.94
York	54.1	37.8	41.1	42.0	1.86
Loughborough	55.7	38.3	45.1	42.0	1.77
Ardrossan	52.1	39.9	44.0	42.2	2.23
Donaghadee	51.3	40.1	44.8	43.2	2.02
Holyhead	51.9	42.4	46.2	44.2	1.86
Liverpool	53.0	40.7	45.5	42.6	1.56
Parsonstown	55.0	38.3	45.7	43.0	2.15
Valencia	54.3	42.9	48.4	45.9	4.01
Roche's Point	54.2	42.4	47.0	44.9	3.43
Pembroke	56.8	42.1	45.6	43.6	2.19
Seilly	52.5	45.0	49.0	47.1	2.45
Jersey	54.6	43.6	49.0	46.4	2.04
Hurst Castle	52.3	41.4	45.9	44.6	1.87
Dover	51.5	42.4	47.1	44.5	1.81
LONDON	56.7	40.0	46.8	43.8	1.86
Oxford	55.1	39.3	45.0	42.7	1.79
Cambridge	56.2	37.7	45.5	43.3	1.76
Yarmouth	49.5	40.4	45.1	43.4	1.80

NOTE—The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 20 years 1866-85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, (1.) 29.9 in. to 30.1 in. over Ireland and the Bay of Biscay; (2.) 29.8 in. to 29.9 in. and more, over the extreme north of Scandinavia.

Lowest, 29.5 in. and less, over the Baltic, Denmark and Holstein, and 29.6 in. and less between the Frank coast and Hapar.

Gradient slight to moderate as a whole, but rather steep over the southeast of Ireland and at the mouth of the Channel.

Barometer unsteady, but rising in Ireland, and Lapland, and also in the southeast of France from the depression noticed there yesterday.

TEMPERATURE

Highest, 55° at Dublin, 50° at Rhenitz, 46° at Dilly, 45° in the west of Ireland.

Lowest, 22° at Harisand, 24° at Haparanda, 26° at Hapar, 37° to 39° over the major part of Great Britain, 37° at Paris, 39° in London. At Munich it is 34° and at Lyons 38°.

The minima during the night were as low as 30° at Sumburg, 31° at Miel and Shields, and 37° in London.

WIND

N¹ to NW¹ on nearly all part of our own and the French coast, and blowing strongly at the mouth of the Channel.

In Norway it is E¹, in Sweden NE¹, and in Germany W¹.

WEATHER

Bright at many of our western stations and in the far north.

Cloudy and changeable elsewhere, with cold showers in some places.

The rainfall values reported this morning are slight at all stations.

SEA

Rough on some parts of our southwest coast, moderate to smooth elsewhere. Over the Bay of Biscay it is slight.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There is no indication at present of any decided change of weather.

FORECASTS

For the 24 hours ending at NOON on 11th APRIL 1890.

DISTRICTS.

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

FORECASTS.

Varying winds, moderate and light; changeable weather — showers with bright intervals.

Same as N° 5

N¹ and NW¹ winds, moderate to light; some showers, then finer.

DISTRICTS.

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

FORECASTS

Same N° 0 and 1.

NW¹ and W¹ winds; changeable, some showers, bright intervals.

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 ...	29.58	44	41	WNW	2	0	3	Holyhead ...	29.93	47	42	WNW	3	c	3
Sumburgh Head ...	29.74	38	35	N	2	c	5	Valencia ...	30.05	51	49	WNW	4	o q	3
Stornoway ...	29.83	44	42	W	0	0	2	Scilly ...	30.02	48	44	NW	4	bc	3
Aberdeen ...	29.82	40	37	WNW	3	op	5	Jersey ...	29.98	48	43	WNW	4	c	3
Shields ...	29.84	44	40	WNW	4	c	5	Dungeness ...	29.84	45	38	WNW	4	c	5
Ardrossan ...	29.85	49	47	W	2	0	1	London ...	29.87	46	40	NW	3	o	5
Mulin Head ...	29.86	42	41	W	3	0	2	Yarmouth ...	29.75	43	40	WNW	6	c q	?
Mullaghmore ...	29.90	45	44	SW	4	op	2	Rochefort ...	30.04	53	48	N	4	c	
Belmullet ...	29.97	50	46	NW	4	bc	*								

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

Weather in morning fine and bright over Spain, the west of France and at many of our western and southern stations, as well as over Central Russia and the Baltic Provinces, cloudy and very unsettled elsewhere, with wet snow, hail, and cold rain showers on our north and northeast coasts, snow in the north of Russia, and rain over the northern parts of the Mediterranean, Italy and the Adriatic. Cold showers later throughout our Islands, but with some bright intervals in most places.

Temperature fallen greatly in the south of France, risen over Austria and the south of Russia, changed irregularly elsewhere; exceeding 50° on the eastern, southern, and western shores of the Mediterranean, and on the Atlantic coast of Spain and Portugal, lower elsewhere. Below 40° over Scotland and Northern Europe, and as low as 13° at Haparanda, and 20° to 24° over Lapland and the extreme north of Russia. Rising to 50° and more over Ireland, France, and some of our southern stations later, as well as at Berlin, but not exceeding 45° on our most northern and northeastern coasts generally.

Wind N and NW^{ly}, moderate to strong over nearly the whole of Western Europe and Germany, but S and SE in Holstein, Denmark, and the south of Norway, E to N over Lapland and Sweden. Well marked cyclonic circulation over Southern Europe and the Mediterranean, but winds not strong, except at Portofino and Barcelona. Direction varying a good deal over our Islands later, but force moderate, except over Donegal Bay, where a NW^{ly} gale prevailed temporarily.

Barometer highest (1) 30.0 in. to 30.1 in. and more over Ireland, the west and north of Spain and adjacent parts of Atlantic. (2) 29.8 in. to 29.9 in. and more over Lapland and Russia. Lowest, 29.2 in. and less, in a deep elongated depression lying over the northern parts of the Mediterranean, Italy, and the Adriatic, and 29.4 in. and less, in another disturbance near Faro, and which was filling up. Both depressions became shallower later, and new small disturbances travelling quickly over our Islands from the northward.

EXPLANATION OF 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).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for *Friday, 11th April, 1890.*
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.	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 ...	29.89	30	NE	6	0	29.97	+0.08	30	30	+6	E	6	0	*	30	19	-	
Hernösand ...	29.70	30	NNE	5	0	29.68	-0.02	32	32	+10	NE	4	0	*	30	19	0.12	
Stockholm ...	29.57	32	W	4	0	29.66	+0.09	29	28	-3	WNW	4	0	*	36	20	0.08	
Wisby ...	29.63	34	WNW	4	0	29.66	+0.03	34	32	-3	N	4	0	*	39	32	-	
Bodo ...	29.89	28	ENE	4	0	29.85	-0.04	34	30	+8	ENE	4	0	2	34	23	-	
CHRISTIANIA.																		
Christiansund ...	29.67	39	NNE	3	0	29.71	+0.04	35	33	-1	NNE	3	0	2	43	34	-	
Skudesnaes ...	29.68	36	E	2	0	29.75	+0.07	40	38	+2	WNW	2	0	2	41	34	-	
Christiania Fjord (Farder) ...	29.66	37	ENE	3	0	29.73	+0.07	32	28	-2	NNE	2	0	1	41	32	-	
Skagen (The Scaw) ...	29.60	34	E	3	0	29.69	+0.09	35	31	-2	ENE	2	0	2	39	32	-	
Fanø ...	29.61	37	NW	4	0	29.60	-0.01	40	39	+1	W	4	0	*	45	34	-	
SCOTLAND.																		
Sumburgh Head ...	29.77	54	N	4	0	29.87	+0.10	38	35	+1	N	3	0	5	43	32	0.05	
Stornoway ...	29.95	41	N	4	0	30.01	+0.06	40	39	+2	NE	2	0	3	43	34	0.05	
Wick ...	29.87	36	N	4	0	29.96	+0.09	36	34	-3	N	3	0	2	39	32	0.12	
Nairn ...	29.90	41	WNW	1	0	29.98	+0.08	40	37	+3	WNW	3	0	2	48	35	-	
Aberdeen ...	29.87	39	NW	3	0	29.92	+0.05	39	36	+1	NW	4	0	4	45	35	0.04	
ENGLAND.																		
Leith ...	29.87	44	NE	2	0	29.94	+0.07	40	35	0	NW	2	0	*	48	35	-	
Shields ...	29.86	40	WNW	2	0	29.89	+0.03	39	38	0	NW	4	0	5	43	30	-	
Spurn Head ...	29.81	40	N	4	0	29.83	+0.02	39	36	+2	NW	5	0	5	44	34	0.03	
York ...	29.88	42	N	1	0	29.91	+0.03	38	34	0	WNW	3	0	*	45	28	-	
Loughborough ...	29.86	42	NW	1	0	29.92	+0.06	39	36	+1	NW	3	0	*	45	31	-	
IRELAND.																		
Ardrossan ...	29.90	46	ENE	2	0	30.00	+0.10	42	38	-1	WNW	1	0	0	51	34	0.02	
Malin Head ...	29.89	45	NW	4	0	30.04	+0.15	41	38	+1	N	5	0	3	47	40	0.02	
Mullaghmore ...	29.96	48	WNW	6	0	30.08	+0.12	43	39	0	NE	4	0	2	49	39	0.05	
Belmullet ...	30.04	48	NW	4	0	30.10	+0.06	44	41	-1	ENE	1	0	*	49	40	-	
Donaghadee ...	29.89	47	NNE	3	0	30.02	+0.13	43	41	0	NNE	3	0	1	50	40	0.01	
BRITISH ISLANDS.																		
Liverpool (Bidston) ...	29.89	44	WNW	3	0	29.96	+0.07	42	38	+4	NNE	4	0	2	46	35	0.10	
Holyhead ...	29.92	43	WNW	3	0	29.98	+0.06	43	39	+3	NNE	4	0	3	45	39	0.01	
Parsonstown ...	30.00	46	NW	2	0	30.07	+0.07	38	36	-5	N	0	0	*	50	32	0.02	
Valencia ...	30.09	49	N	4	0	30.09	0.00	46	42	+1	NE	2	0	3	52	43	0.04	
Roche's Point ...	30.01	51	N	5	0	30.04	+0.03	43	39	-2	N	5	0	4	52	40	-	
EUROPE.																		
Pembroke (St. Ann's Hd.) ...	29.94	43	NNE	3	0	29.94	+0.00	46	45	+3	N	2	0	2	46	39	-	
Scilly ...	29.94	47	N	6	0	29.94	+0.00	46	44	0	NW	5	0	4	48	42	0.01	
Prawle Point ...	29.90	41	N	3	0	29.95	+0.05	42	40	-3	NW	3	0	1	51	34	-	
Jersey (St. Aubin's) ...	29.79	45	N	6	0	29.94	+0.15	46	41	-1	WNW	4	0	3	49	41	0.14	
Hurst Castle ...	29.84	42	NNE	3	0	29.92	+0.08	39	38	-3	NE	1	0	2	48	34	0.04	
FRANCE AND BELGIUM.																		
Dungeness ...	29.75	42	ENE	4	0	29.86	+0.11	38	35	-2	N	3	0	2	46	32	-	
London ...	29.83	41	E	1	0	29.91	+0.08	40	36	+1	NNE	2	0	*	45	37	0.06	
Oxford ...	29.91	39	NNE	2	0	29.93	+0.02	37	36	-1	WNW	1	0	*	48	34	0.03	
Cambridge ...	29.86	40	N	1	0	29.91	+0.05	41	38	+1	N	1	0	*	48	27	-	
Yarmouth ...	29.78	42	N	4	0	29.82	+0.04	39	37	-3	NW	4	0	4	45	33	0.12	
GERMANY AND HOLLAND.																		
Cuxhaven ...	29.65	42	NW	4	0	29.71	+0.06	37	35	-4	WNW	3	0	*	45	37	0.08	
Berlin ...	29.67	44	W	3	0	29.78	+0.11	40	38	-1	W	3	0	*	50	34	-	
Wiesbaden ...	*	*	*	*	*	29.80	+0.06	40	38	-1	NW	2	0	*	46	36	-	
Munich ...	29.76	36	W	1	0	29.74	-0.02	36	35	+2	NE	1	0	*	43	32	0.04	
The Helder ...	29.77	39	N	1	0	29.78	+0.01	40	36	+1	NW	1	0	2	43	37	-	
FRANCE AND BELGIUM.																		
Brussels (a.m.) ...	*	*	*	*	*	29.84	+0.09	40	38	+1	NW	1	0	*	46	37	0.04	
Cape Gris Nez ...	?	41	E	4	0	?	?	39	36	-3	N	4	0	3	45	37	0.20	
Brest ...	29.72	41	SSW	2	0	29.85	+0.13	38	37	+1	N	2	0	*	48	36	0.20	
Lorient ...	29.72	41	N	6	0	29.96	+0.24	42	40	-5	N	1	0	2	48	34	-	
Rochefort ...	29.80	46	WNW	5	0	29.97	+0.17	42	39	-3	N	3	0	2	50	39	0.04	
FRANCE AND BELGIUM.																		
Belfort ...	29.82	47	NW	6	0	29.93	+0.11	43	41	-3	N	6	0	?	52	36	0.08	
Lyons ...	29.74	45	W	1	0	29.75	-0.01	45	37	+4	W	1	0	*	52	35	-	
Nice ...	29.73	43	WNW	2	0	29.80	+0.07	38	38	+3	NNE	1	0	*	49	35	-	
Perpignan ...	29.60	49	S	5	0	29.63	+0.03	48	38	-4	W	4	0	4	59	41	-	
Biarritz ...	29.77	36	WNW	4	0	29.80	+0.03	48	41	0	NW	3	0	*	63	44	-	
Corunna ...	29.93	51	WNW	4	0	29.93	-0.02	45	43	-5	WNW	4	0	3	54	43	0.16	
Lisbon ...	29.85	56	N	6	0	29.91	+0.06	51	46	-4	N	5	0	4	66	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

Friday 11th April

1890.

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:

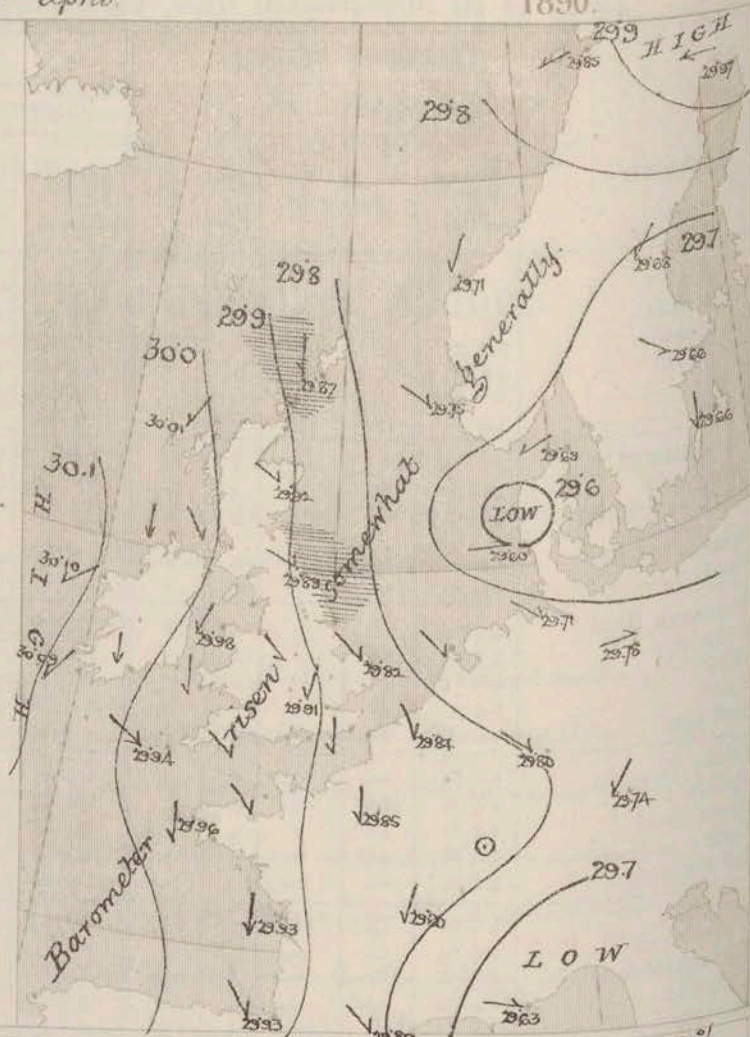
▨ = Rough, ▨ = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of April.

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.819
Stornoway	29.821
Wick	29.853
Nairn	29.853
Aberdeen	29.862
Leith	29.865
Shields	29.870
York	29.877
Loughborough	29.878
Ardrrossan	29.887
Donaghadee	29.893
Holyhead	29.891
Liverpool	29.864
Parsonstown	29.853
Valencia	29.835
Rocha's Point	29.838
Pembroke	29.844
Seilly	29.849
Jersey	29.867
Hurst Castle	29.867
Dover	29.866
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.876



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.

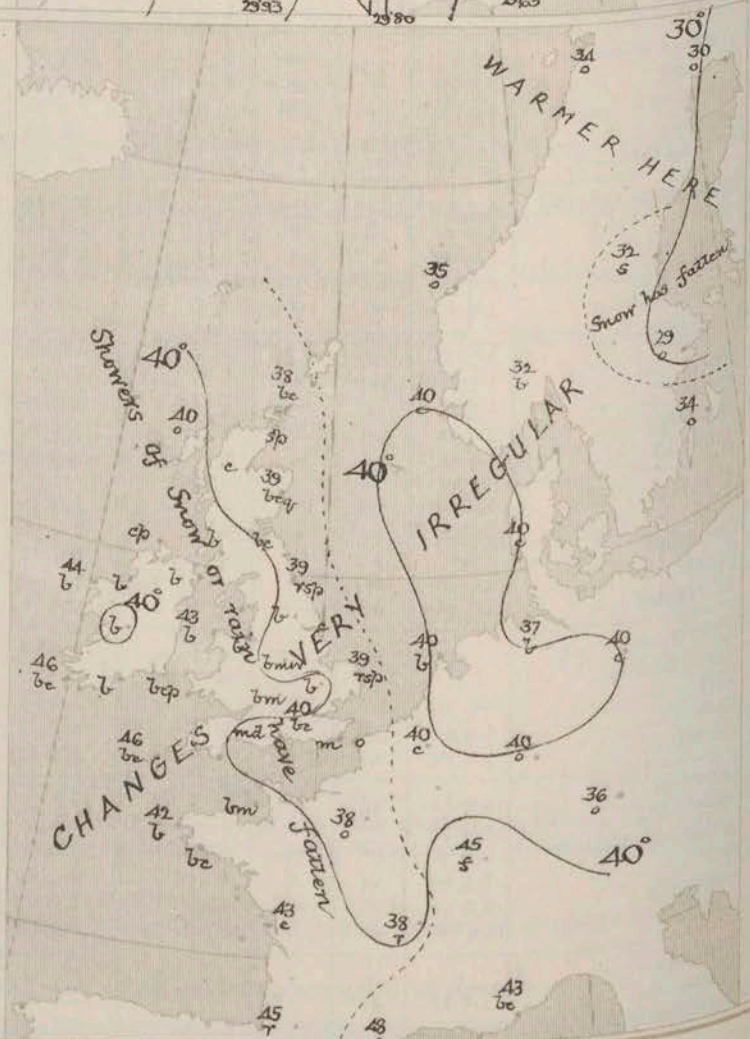
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of April.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	46.3	37.3	41.0	40.5	2.16
Stornoway	49.3	37.5	44.1	42.3	2.51
Wick	49.2	37.1	43.2	41.2	1.56
Nairn	51.5	37.9	43.1	40.6	1.23
Aberdeen	49.6	38.6	43.4	40.9	2.23
Leith	52.6	38.2	44.2	42.1	1.65
Shields	49.2	39.2	43.8	41.7	1.94
York	54.1	37.8	44.1	42.0	1.30
Loughborough	53.7	38.3	45.1	42.6	1.77
Ardrrossan	52.1	39.9	44.3	42.2	2.23
Donaghadee	51.3	40.1	44.6	43.2	2.02
Holyhead	51.9	42.4	46.2	44.2	1.80
Liverpool	53.0	40.7	45.5	42.6	1.56
Parsonstown	55.0	38.3	45.7	43.0	2.15
Valencia	54.3	42.9	48.1	45.9	4.01
Rocha's Point	54.2	43.1	47.0	44.9	3.43
Pembroke	50.8	42.7	45.6	43.6	2.10
Seilly	52.6	45.0	46.0	47.1	2.45
Jersey	51.6	43.6	49.0	46.4	2.04
Hurst Castle	52.3	41.4	45.9	44.6	1.87
Dover	51.5	42.4	47.1	44.5	1.81
LONDON	56.7	40.0	46.8	43.8	1.80
Oxford	55.1	39.3	45.0	42.7	1.79
Cambridge	56.2	37.7	45.5	43.3	1.76
Yarmouth	49.5	40.4	45.1	43.4	1.80

NOTE—The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 20 years 1866-85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.0 in. to 30.1 in. and more over Ireland and the northwest of Spain.
Lowest, about 29.6 in. both over Denmark and the Gulf of Genoa.
Gradients slight and irregular. Barometer apparently almost steady at all stations.

TEMPERATURE

Highest, 51° at Lisbon, 48° at Algiers, 46° at Seville, Genoa, and Valencia.
Lowest, 29° at Stockholm, 30° at Copenhagen, 35° at Christiania, 37° at Oxford, 38° at Edinburgh, 40° at York and Paris, 46° in London.
The maximum reading yesterday was below 50° over Scotland - that at Perth was only 39°. At York the shaded thermometer fell to 43° and at Shields to 36° in the night.

WIND

N^W to N^W over the whole of our Islands, France and Spain, and light to moderate in force.
In Germany it was W^W and on the eastern shore of the North Sea variable.

WEATHER

Fair as a whole in most places, but cold passing showers are still reported on our northeast and east coasts and at Malin Head.
Rainfall (rain, snow, and hail) though pretty general yesterday, was slight.

SEA

Rather rough on our north and east coasts, moderate in the west, slight elsewhere, and decreasing generally.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There is no indication of any decided change beyond a gradual decrease of rainfall and cloud; sharp frost is probable on the ground at inland stations tonight.

FORECASTS

For the 24 hours ending at NOON on 12TH APRIL 1890.

DISTRICTS.

FORECASTS.

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

N^W breezes, light; cloudy to clear, a few showers.
NW^W or N^W breezes, moderate or fresh; some cold showers then fine.
N^W breezes, light or moderate; fair as a whole. Clear and very cold at night.

DISTRICTS.

FORECASTS

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

N^W breezes, moderate or light; a few local showers, bright intervals. Very 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.

THER: WIND								THER: WIND							
BAR:		D.	W.	D.	F.	WEA.	SEA	BAR:		D.	W.	D.	F.	WEA.	SEA
Skudesnaes ...	29.68	37	86	E.N.E.	2	o	3	Holyhead ...	29.92	44	40	N	4	c	4
Sumburgh Head ...	29.74	41	87	N	4	bc sp	5	Valencia ...	30.09	50	45	N	5	bc q	4
Stornoway ...	29.95	43	40	N.E.	3	c	3	Scilly ...	29.89	47	43	N	8	c	4
Aberdeen ...	29.83	44	38	N.W.	4	bc q hp	4	Jersey ...	29.74	46	43	N.W.	5	bc	2
Shields ...	29.82	43	40	N.W.	3	c	4	Dungeness ...	29.71	44	42	E.S.E.	2	c	3
Ardrossan ...	29.86	48	45	W	2	c	1	London ...	29.78	41	39	E	1	or	4
Malin Head ...	29.91	46	43	N.W.	5	c	3	Yarmouth ...	29.75	45	41	N.W.	4	bc v	4
Mullaghmore ...	29.99	48	44	N.W.	6	c h q	4	Rochefort ...	29.87	49	46	N.W.	5	c	?
Belmullet ...	30.07	48	46	N.W.	5	c	*								

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

Weather varying greatly in different localities. Fine in some parts of Germany, as well as in Spain and the south of France; showers in the United Kingdom, with hail and sleet at some of our eastern stations; dull in Sweden, Denmark and Russia, and also in Italy with rain in many places and fog over the Baltic. Cold showers falling during day in many parts of Western Europe.

Temperature highest, 55° and upwards, at some of the Mediterranean stations and also on the coasts of the Iberian Peninsula (Almeria 55°, Oporto and Algiers 55°, Brindisi 57°). Lowest 22° at Helsingfors, 24° at Archangel and Haparanda, 25° at Uleaborg, 26° at Rode, 32° at Kuopio and Stockholm, and 34° at Turku; below 40° in many parts of Western, Northern, and Central Europe. Daily maxima below 50° in nearly all parts of the United Kingdom.

Wind NW or N over our Islands, France, and the North Sea; light or moderate in force generally, but strong to gale at the mouths of the Bristol and English Channels. N or NE over Scandinavia and Northern Russia, as well as in Spain; variable in Italy, S over Eastern Austria and the south of Russia; NW in Eastern Germany. Gale at mouth of Channel subsiding later.

Barometer highest, 30.1 ins. and upwards, in an anticyclone lying to the westward of our Islands; high 29.9 ins. and upwards, over the north of Scandinavia. Lowest, 29.4 ins. and less, in an elongated depression extending from Western Russia to the Adriatic; 29.5 ins. and less, in a smaller system lying over Denmark; 29.8 ins. and less, in another area lying over Morocco. Barometer rising over Western Europe during day but no important change occurring in distribution of pressure.

EXPLANATION OF 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).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for *Saturday, 12th April, 1890.*
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

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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 3 rd P. and Sea Level.	Dry.	Dir.	Force. (0 to 12.)		Reading at 8 th P. 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 ...	30.02	31	E	4	C	30.10	+ .13	24	26	- 3	E	4	bc	*	86	25	-	
Hernösand ...	29.76	34	EHE	2	1	29.71	+ .03	34	34	+ 2	NE	2	r	*	36	28	0.04	
Stockholm ...	29.74	36	WNW	2	0	29.65	- .01	34	33	+ 5	NW	2	o	*	41	27	0.16	
Wisby ...	29.76	35	N	4	S	29.63	- .03	35	35	+ 1	N	6	r	*	37	30	-	
Bodö ...	29.81	34	E	6	C	29.89	+ .04	35	32	+ 1	EHE	6	o	3	?	32	-	
SCANDINAVIA.																		
Christiansund ...	29.71	37	SSW	2	b	29.77	+ .06	37	34	+ 2	ESE	3	b	2	39	34	-	
Skudesnaes ...	29.79	36	NW	2	b	29.77	+ .02	38	35	- 2	E	2	b	2	?	32	-	
Christiania Fjord (Fæder) ...	29.74	39	WNW	3	b	29.75	+ .02	35	33	+ 3	NNE	4	b	2	39	?	-	
Skagen (The Seaw) ...	29.72	40	NE	1	bc	29.71	+ .02	39	37	+ 4	E	2	bc	2	43	34	-	
Fanö ...	29.73	36	N	2	o	29.74	+ .14	42	38	+ 2	N	0	b	*	45	32	0.35	
SCANDINAVIA.																		
Sumburgh Head ...	29.86	38	N	2	bc	29.79	- .08	39	35	+ 1	N	0	b	2	44	32	0.02	
Stornoway ...	29.96	43	NE	3	C	29.82	- .19	38	37	- 2	N	3	c	3	46	31	-	
Wick ...	29.92	37	N	3	C	29.82	- .14	35	33	- 1	N	2	b	1	45	26	-	
Nairn ...	29.94	40	N	0	C	29.83	- .15	36	34	- 4	SSW	1	bc	1	43	33	0.08	
Aberdeen ...	29.92	40	NW	2	bc	29.83	- .09	39	36	0	NW	2	bc	3	45	35	0.01	
SCANDINAVIA.																		
Leith ...	29.93	44	E	1	C	29.82	- .15	39	36	- 1	EHE	1	o	*	52	33	-	
Shields ...	29.91	41	N	3	bc	29.81	- .08	38	37	- 1	N	0	c	3	46	34	0.01	
Spurn Head ...	29.86	42	NW	4	C	29.80	- .03	39	37	0	NW	3	bc	4	45	34	0.05	
York ...	29.91	36	N	2	bc	29.82	- .09	37	35	- 1	NW	1	C	*	48	29	-	
Loughborough ...	29.92	42	N	3	bc	29.85	- .07	38	36	- 1	NNE	1	bc	*	48	31	-	
BRITISH ISLANDS.																		
Ardrassan ...	29.98	48	W	1	bc	29.80	- .20	39	37	- 3	NE	1	cm	1	49	34	-	
Malin Head ...	29.98	44	N	3	op	29.78	- .26	40	39	- 1	SSE	2	o	1	46	36	0.04	
Mallaghmore ...	29.98	47	NW	2	b	29.75	- .33	42	38	- 1	ESE	4	C	3	49	39	-	
Belmullet ...	29.98	48	NW	1	b	29.68	- .42	42	40	- 2	SE	3	o	*	51	39	-	
Donaghadee ...	29.96	46	NE	3	b	29.80	- .22	44	42	+ 1	SE	3	b	1	50	42	-	
BRITISH ISLANDS.																		
Liverpool (Bidston) ...	29.94	43	NW	1	bc	29.83	- .13	42	38	0	SSE	1	bc	2	47	35	-	
Holyhead ...	29.96	42	N	2	b	29.81	- .17	44	40	+ 1	S	1	C	1	46	39	-	
Parsonstown ...	29.99	49	NE	1	bc	29.77	- .30	41	39	+ 3	N	0	bc	*	50	30	-	
Valencia ...	29.92	50	W	2	b	29.64	- .45	44	43	- 2	ESE	6	rg	5	52	40	0.30	
Roche's Point ...	30.00	49	SSW	2	bc	29.75	- .29	46	42	+ 3	S	4	C	4	53	40	-	
BRITISH ISLANDS.																		
Pembroke (St. Ann's Hd.) ...	29.97	42	NNE	3	b	29.81	- .13	41	40	- 5	E	1	C	1	47	35	-	
Scilly ...	29.98	46	N	5	bc	29.77	- .17	46	42	0	E	1	bc	3	48	40	0.04	
Prawle Point ...	29.93	40	NNE	1	C	29.82	- .13	45	42	+ 3	SE	1	bc	0	48	35	0.19	
Jersey (St. Aubin's) ...	29.91	48	NW	4	bc	29.85	- .09	44	40	- 2	NE	3	bc	3	50	35	0.01	
Hurst Castle ...	29.91	46	NW	2	b	29.85	- .07	42	40	+ 3	EHE	3	b	1	47	35	0.01	
BRITISH ISLANDS.																		
Dungeness ...	29.84	47	N	4	bc	29.83	- .03	35	34	- 3	N	3	m	2	48	29	-	
London ...	29.89	44	NW	2	C	29.84	- .07	37	36	- 3	SSE	1	m	*	49	33	-	
Oxford ...	29.93	40	N	2	C	29.85	- .08	37	36	0	N	0	C	*	49	31	-	
Cambridge ...	29.91	39	N	1	C	29.84	- .07	40	37	- 1	N	0	b	*	53	28	0.03	
Yarmouth ...	29.81	42	NW	4	C	29.79	- .03	40	38	+ 1	NW	1	bc	3	45	33	0.04	
GERMANY.																		
Cuxhaven ...	29.74	43	NW	3	b	29.77	+ .06	38	37	+ 1	S	1	C	*	43	36	-	
Berlin ...	29.79	42	W	1	b	29.79	+ .01	40	37	0	SSE	1	b	*	48	34	-	
Wiesbaden ...	*	*	*	*	*	29.75	- .05	38	37	- 2	NW	4	r	*	46	36	0.08	
Munich ...	29.75	36	N	0	o	29.69	- .05	37	35	+ 1	W	4	C	*	41	34	0.04	
The Helder ...	29.74	39	W	1	b	29.75	- .03	39	38	- 1	NNE	2	C	3	45	37	0.12	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.) ...	*	*	*	*	*	29.74	- .10	38	37	- 2	N	2	o	*	46	36	0.04	
Cape Gris Nez ...	?	44	NW	3	bc	?	?	39	37	0	N	3	bc	3	50	36	-	
Paris ...	29.87	42	N	2	b	29.86	+ .01	34	38	- 4	SW	2	bc	*	?	30	-	
Brest ...	29.94	48	N	2	o	29.88	- .08	44	43	+ 2	EHE	1	bc	1	52	?	-	
Lorient ...	29.95	50	NW	1	C	29.82	- .15	42	41	0	NNE	2	C	2	52	41	-	
FRANCE AND BELGIUM.																		
Rochefort ...	29.99	49	NW	5	b	29.92	- .01	46	44	+ 3	WSW	3	bc	?	54	39	0.04	
Belfort ...	29.75	42	NW	1	bc	29.74	- .01	44	35	- 1	W	2	o	*	48	36	-	
Lyons ...	29.83	41	NW	3	C	29.84	+ .04	37	35	- 1	NW	4	bc	*	49	32	0.12	
Nice ...	29.89	52	SW	5	bc	29.57	- .06	44	37	+ 1	E	2	b	1	57	41	-	
Perpignan ...	29.86	47	NW	4	C	29.88	+ .08	44	40	- 4	NW	4	b	*	55	39	0.04	
Biarritz ...	29.99	50	NW	4	bc	29.93	- .00	42	39	- 3	SSE	3	o	2	54	39	0.16	
SPAIN.																		
Corunna ...	*	*	*	*	*	29.93	+ .02	52	48	+ 1	NW	5	b	5	64	50	-	
Lisbon ...	29.95	54	NW	5	b	29.93	+ .02	52	48	+ 1	NW	5	b	5	64	50	-	

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, 12th April.

1890.

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:

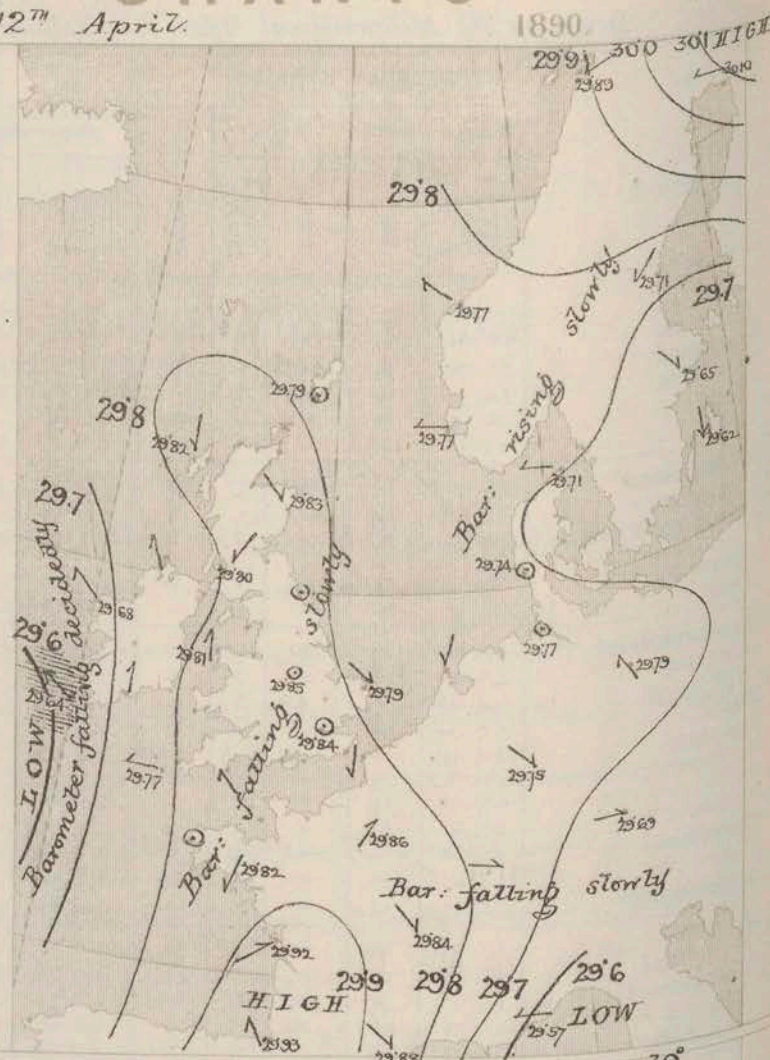
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of April.

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.849
Stornoway	29.821
Wick	29.853
Nairn	29.853
Aberdeen	29.862
Leith	29.865
Shields	29.870
York	29.877
Loughborough	29.878
Ardrossan	29.857
Donaghadee	29.853
Holyhead	29.851
Liverpool	29.864
Parsonstown	29.853
Valencia	29.895
Roche's Point	29.838
Pembroke	29.844
Selly	29.849
Jersey	29.867
Hurst Castle	29.867
Dover	29.866
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.876



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.

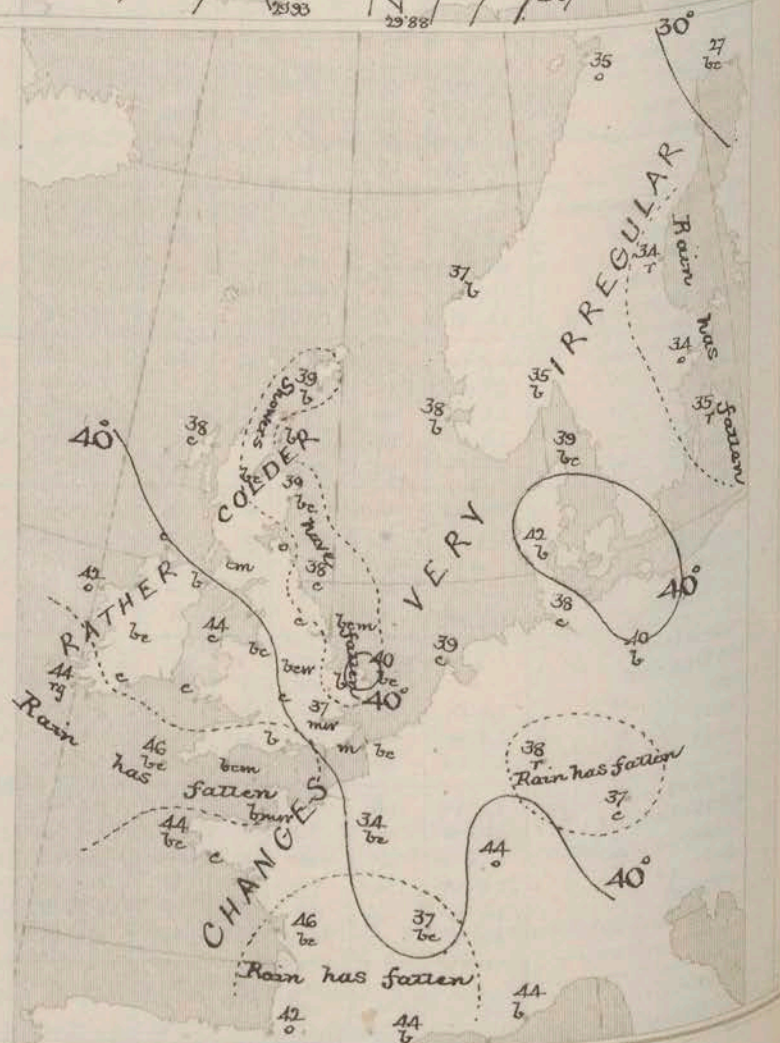
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of April.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Dry.	Wet.	
Sumburgh Head	40.3	37.3	41.9	40.3	2.16
Stornoway	40.3	37.3	41.1	42.3	2.51
Wick	40.2	37.4	43.2	41.2	1.56
Nairn	41.5	37.0	43.4	40.6	1.23
Aberdeen	40.6	38.5	43.4	40.9	2.23
Leith	42.6	38.2	44.2	42.1	1.65
Shields	40.2	39.2	43.8	41.7	1.94
York	41.1	37.8	44.1	42.0	1.86
Loughborough	45.7	38.3	45.1	42.6	1.77
Ardrossan	42.1	39.0	44.6	42.2	2.23
Donaghadee	41.3	40.1	44.8	43.2	2.02
Holyhead	41.9	42.4	46.2	44.2	1.89
Liverpool	43.6	40.7	45.5	42.6	1.56
Parsonstown	45.0	38.3	45.7	43.0	2.15
Valencia	44.3	42.9	48.4	45.9	4.01
Roche's Point	44.2	42.4	47.0	44.9	3.43
Pembroke	40.8	42.1	43.6	43.6	2.10
Selly	42.5	45.0	46.0	47.1	2.45
Jersey	44.6	43.0	46.0	46.4	2.04
Hurst Castle	42.3	41.4	45.9	44.6	1.87
Dover	41.5	42.3	47.1	43.3	1.81
LONDON	46.7	40.9	46.8	43.8	1.86
Oxford	45.1	40.3	45.0	42.7	1.79
Cambridge	46.2	47.7	45.5	43.2	1.79
Yarmouth	40.5	40.4	43.1	43.4	1.80

NOTE—The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 20 years 1866-85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 29.9 ins. and more, over Spain and the south-east of France, 29.8 ins. and more, over the Channel and Great Britain.
 Lowest, 29.7 ins. and less, off the west of Ireland, and also over the southern parts of Sweden and the Baltic.
 Gradient rather steep (for N. winds) over the south-east of France, moderate for S. winds over Ireland, slight elsewhere.
 Barometer falling decidedly in Ireland, slightly over Great Britain.

TEMPERATURE

Highest, 52° at Dublin, 46° at Rochefort, Scilly, and Hook Point, 44° at Valencia, Holyhead, Penzance and Kice.
 Lowest, 27° at Haparanda, 34° at Stockholm and Paris, 37° at Munich, York, and in London.
 It has been as low as 33° in the shade, and 22° on the grass, in London early this morning.

WIND

Moderate from NW. over the greater part of France, and from E. over the northern parts of Scandinavia.
 Very light and variable over Great Britain - calm in several places.
 SE and S over Ireland, and increasing in force; at Valencia it is strong.

WEATHER

Fair in most places, but rain is falling.
 In Ireland the appearance of the sky is rather unsettled and rain is falling at Valencia.
 Rainfall yesterday was slight and local.

SEA

Slight or smooth on nearly all our coasts, but has become rather rough at Valencia (Ireland) and Dublin.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The new depression in the west seems likely to bring unsettled, mild weather to most parts of our Islands shortly; and as the S. wind seems likely to blow a gale at some, at all events, of our western stations, the South Cone has been hoisted in the south and west of Ireland this morning.

FORECASTS

For the 24 hours ending at NOON on 13th April 1890.

DISTRICTS.

FORECASTS.

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

Wind shifting to SE^{ly} and S^{ly} and freshening;
 fine to rainy and unsettled, milder.

Calms followed by SE^{ly} and S^{ly} winds;
 milder, fine today, dull and rainy tomorrow.

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.

SE^{ly} and S^{ly} winds, increasing; becoming
 dull, unsettled and rainy.

SE^{ly} and S^{ly} winds, strong to a gale;
 rainy, unsettled.

WARNINGS

The SOUTH CONE has been hoisted this morning in the south and west of Ireland.

N^o 0.—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	29.77	47	41	W	2	c	2	Holyhead	29.99	44	38	N	3	b	2
Sumburgh Head	29.87	42	37	N	3	bc	4	Valencia	30.04	51	42	N	2	b	2
Stornoway	29.99	45	42	NE	3	c	3	Scilly	29.94	48	45	N	5	bc	3
Aberdeen	29.93	43	37	W	3	bcqhp	4	Jersey	29.93	50	43	W	3	b	2
Shields	29.91	45	42	N	4	c	4	Dungeness	29.85	47	38	N	3	o	4
Ardrossan	29.95	46	41	W	3	c	2	London	29.88	47	40	W	3	o	4
Malin Head	30.03	46	41	N	3	bc	2	Yarmouth	29.80	45	41	W	5	o	4
Mullaghmore	30.04	49	42	NE	1	bcv	2	Rocheport	29.98	51	46	N	4	c	2
Belmullet	30.05	51	44	W	2	b	*								

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

Weather fair over the greater part of Western and Central Europe, but showers of snow or sleet reported on the north and east coasts of Great Britain, and showers of rain at Malin Head and Pembroke. Dull in most other parts of the Continent, with fog over the Gulf of Finland, and rain at several of the Russian stations, as well as in Central Algeria. No important change occurring later.

Temperature highest, 50° and upwards, over the Mediterranean and on the coasts of the Iberian Peninsula (Palma and Buntisi 57°, Southampton 50°, Algiers, and Malta 55° and Oporto and Lighthouse 54°. Lowest 23° at Archangel, 29° at Uleaborg and Stockholm, 30° at Haparanda, 31° at Helsingfors, 32° at Helsingfors and Tander, and 34° at Wisby and Munster; below 40° in many parts of the United Kingdom. Frost occurring at night over the inland parts of Great Britain; thermometer on the grass falling to 22° in London.

Wind N^W (NW to NE) in all the more western and northern countries; light or moderate in force generally, but fresh or strong in some parts of France and Spain; with a gale at Barcelona. Light from the SEnd or Snd over Italy and Central and Southern Russia. Subsequently shifting to the NWnd in the north of Ireland and to W. or SW. in the south of that country.

Barometer, highest 30.1 in. and upwards, in a large area lying to the westward of Ireland and northward of Spain, 30.0 in. and upwards, in the neighbourhood of the White Sea; 29.9 in. and upwards over the eastern part of the Mediterranean. Lowest 29.4 in. and less, in a depression lying over Western Russia, 29.6 in. and less, in a small disturbance lying over Central Denmark, 29.7 in. and less, in a third system lying over Corsica, Sardinia and the Gulf of Genoa. Fall taking place in Ireland later, and depression beginning to approach our extreme western coasts.

EXPLANATION OF 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).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Sunday 13th April 1890.
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 2.)	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 ...	30.13	27	Z	0	b	30.16	+ .06	23	22	- 4	NE	2	b	*	37	19	—	
Hernösand ...	29.84	34	NE	6	o	29.89	+ .18	32	32	- 2	NE	6	s	*	37	32	0.16	
Stockholm ...	29.56	37	NE	2	r	29.69	+ .04	36	35	+ 2	W	4	o	*	37	30	0.75	
Wisby ...																		
Bodö ...	29.97	34	E	4	o	29.91	+ .02	40	35	+ 5	E	6	b	4	40	32	—	
Christiansund ...	29.85	40	NE	4	b	29.67	- .10	38	36	+ 1	ESE	1	f	2	45	26	0.04	
Skudesnaes ...	29.46	39	NNW	1	bc	29.40	- .07	40	36	+ 2	ESE	2	c	2	50	36	—	
Christiania Fjord (Færd)	29.65	41	W	3	c	29.72	- .03	38	36	+ 3	Z	0	bc	1	45	35	—	
Skagen (The Scaw)	29.71	36	Z	0	b	29.73	+ .02	38	37	- 1	W	1	b	1	45	32	—	
Fanø ...	29.75	36	Z	0	b	29.73	- .01	35	34	- 7	Z	0	r	*	43	34	—	
BRITISH ISLANDS.																		
Sumburgh Head	29.78	39	Z	0	b	29.70	- .09	39	35	0	WSW	1	b	1	42	31	0.02	
Stornoway ...	29.77	41	NE	4	b	29.40	- .12	42	40	+ 4	Z	0	b	2	43	28	—	
Wick ...	29.78	39	E	2	bc	29.41	- .11	37	36	+ 2	N	2	bcp	2	46	26	0.08	
Nairn ...	29.75	42	E	1	b	29.71	- .12	34	33	- 2	SSW	1	c	1	46	24	—	
Aberdeen ...	29.78	37	ENE	2	bc	29.72	- .11	38	35	- 1	WNW	2	b	2	44	28	0.01	
Leith ...	29.75	41	E	1	c	29.41	- .11	40	37	+ 1	ESE	1	c	*	46	28	0.01	
Shields ...	29.44	39	Z	0	bc	29.69	- .12	34	33	- 4	NNW	2	c	3	44	31	0.01	
Spurn Head ...	29.45	41	ENE	2	c	29.69	- .11	38	37	- 1	E	1	od	2	49	37	0.02	
York ...	29.77	37	E	1	r	29.40	- .12	34	34	- 3	E	1	s	*	49	33	0.21	
Loughborough	29.75	44	E	1	o	29.40	- .15	38	36	0	ESE	1	om	*	48	33	—	
GERMANY.																		
Ardrossan ...	29.42	41	E	2	omp	29.68	- .12	39	36	0	ENE	2	bm	1	50	32	—	
Malin Head ...	29.68	43	ESE	4	og	29.64	- .14	40	38	0	SE	4	cm	1	45	38	0.02	
Mullaghmore ...	29.62	47	ESE	4	o	29.60	- .15	41	39	- 1	E	5	om	3	48	39	—	
Belmullet ...	29.61	46	SE	5	o	29.58	- .10	41	40	- 1	E	1	o	*	49	35	—	
Donaghadee ...	29.40	44	SSE	2	bc	29.65	- .15	40	39	- 4	E	2	o	0	47	39	0.01	
FRANCE AND BELGIUM.																		
Liverpool (Bidston)	29.71	41	ENE	2	o	29.65	- .18	41	39	- 1	ESE	2	o	3	48	37	0.02	
Holyhead ...	29.68	44	E	3	c	29.62	- .19	42	40	- 1	ESE	2	omg	2	49	40	0.01	
Parsonstown ...	29.62	46	Z	0	c	29.58	- .19	42	40	+ 1	Z	0	o	*	48	37	—	
Valencia ...	29.51	47	ENE	5	cv	29.50	- .14	48	44	+ 4	NE	3	cm	3	51	43	0.03	
Roche's Point...	29.57	44	SSE	5	r	29.52	- .23	46	43	0	SE	4	bc	4	47	42	0.25	
HOLLAND.																		
Pembroke (St. Ann's Hd.)	29.66	46	SE	3	c	29.56	- .25	42	42	+ 2	ESE	5	ogp	3	47	40	—	
Scilly ...	29.59	47	SSE	4	o	29.45	- .32	48	45	+ 2	ESE	5	bc	5	49	40	—	
Prawle Point ...	29.68	43	E	4	bc	29.54	- .28	46	44	+ 1	E	4	b	2	47	42	—	
Jersey (St. Aubin's)	29.40	48	SE	3	bm	29.56	- .29	46	42	+ 2	ESE	4	om	3	51	43	—	
Hurst Castle ...	29.75	44	SSE	3	b	29.62	- .23	47	45	+ 5	SE	4	b	1	48	40	—	
SPAIN.																		
Dungeness ...	29.75	43	WSW	3	c	29.68	- .15	44	40	+ 9	SE	3	c	2	49	35	—	
London ...	29.75	44	S	2	cm	29.68	- .16	42	38	+ 5	ESE	2	bc	*	50	32	—	
Oxford ...	29.44	43	SSE	2	o	29.67	- .18	41	38	+ 4	SE	1	bcn	*	48	30	—	
Cambridge ...	29.46	42	E	1	o	29.69	- .15	42	40	+ 2	S	1	o	*	51	30	—	
Yarmouth ...	29.46	41	SSW	2	bcn	29.71	- .08	41	39	+ 1	S	2	bcn	3	44	36	0.02	
ITALY.																		
Cuxhaven ...	29.74	41	N	4	bc	29.70	- .07	38	37	0	S	2	bc	*	43	37	0.56	
Berlin ...	29.73	48	ENE	2	c	29.41	- .08	40	38	0	N	4	o	*	52	39	0.04	
Wiesbaden ...	*	*	*	*	*	29.46	+ .01	37	36	- 1	NNW	3	c	*	50	?	—	
Munich ...	29.71	34	W	2	r	29.73	+ .04	36	34	- 1	W	4	b	*	45	32	0.24	
The Helder ...	29.76	40	N	1	b	29.74	- .01	40	36	+ 1	N	1	b	1	45	37	—	
PORTUGAL.																		
Brussels (2 a.m.)	*	*	*	*	*	29.75	+ .01	39	37	+ 1	N	1	b	*	45	33	0.12	
Cape Gris Nez	?	44	SW	1	b	?	?	39	35	0	SE	3	bc	2	48	34	—	
Paris ...	29.77	45	NNE	3	bc	29.70	- .16	39	35	+ 5	SE	2	b	*	50	34	—	
Brest ...	?	49	WSW	2	b	?	?	45	42	+ 1	SE	3	o	3	61	39	0.04	
Lorient ...	29.69	48	SSW	2	c	29.49	- .33	45	44	+ 3	ESE	4	o	2	52	41	0.04	
GREECE.																		
Rocheport ...	29.55	50	WSW	4	c	29.59	- .33	42	41	- 4	ESE	4	c	2	55	34	—	
Belfort ...	29.75	44	SE	2	c	29.73	- .01	46	44	+ 2	SE	1	bc	*	50	39	—	
Lyons ...																		
Nice ...	29.60	46	NE	2	c	29.63	+ .06	46	39	+ 2	ENE	2	b	1	57	37	—	
Perpignan ...	29.77	54	N	2	b	29.65	- .23	46	44	+ 2	SW	1	o	*	59	35	—	
Biarritz ...	29.75	52	NNE	3	bc	29.43	- .50	53	50	+ 11	S	3	o	2	59	42	—	
TURKEY.																		
Coruana ...	*	*	*	*	*	29.14	- .78	54	50	+ 1	ESE	5	o	4	59	46	0.04	
Lisbon ...	29.80	54	WSW	4	o	29.28	- .65	52	52	0	S	7	o	6	61	52	0.22	

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, 13th April,

1890.

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.

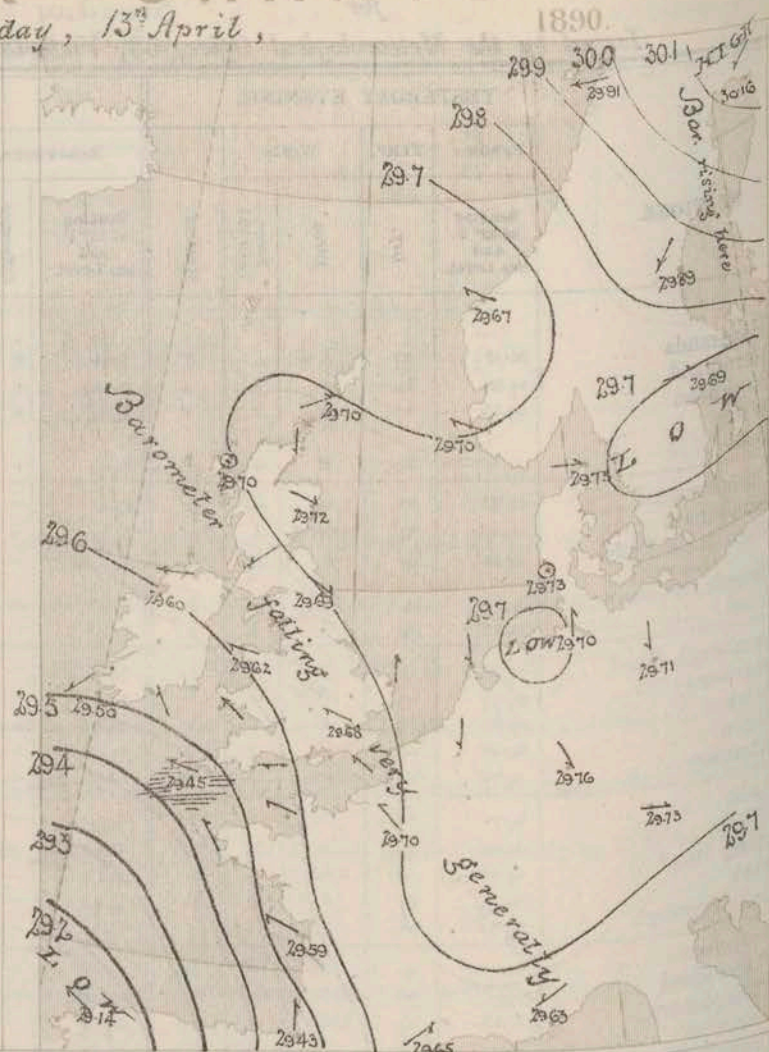
WIND—Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus—
→ = forces above 10; →→ = forces 8 to 10;
→ = forces 5 to 7; → = forces 1 to 4.
⊙ = dead calm.

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

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of April.
During the 15 years: 1871-1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.849
Stornoway	29.821
Wick	29.853
Nairn	29.853
Aberdeen	29.862
Leith	29.865
Shields	29.870
York	29.877
Loughborough	29.878
Ardrossan	29.867
Doungahadee	29.853
Holyhead	29.851
Liverpool	29.864
Parsonstown	29.853
Valencia	29.855
Roche's Point	29.893
Pembroke	29.844
Selly	29.840
Jersey	29.867
Hurst Castle	29.867
Dover	29.906
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.876



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.

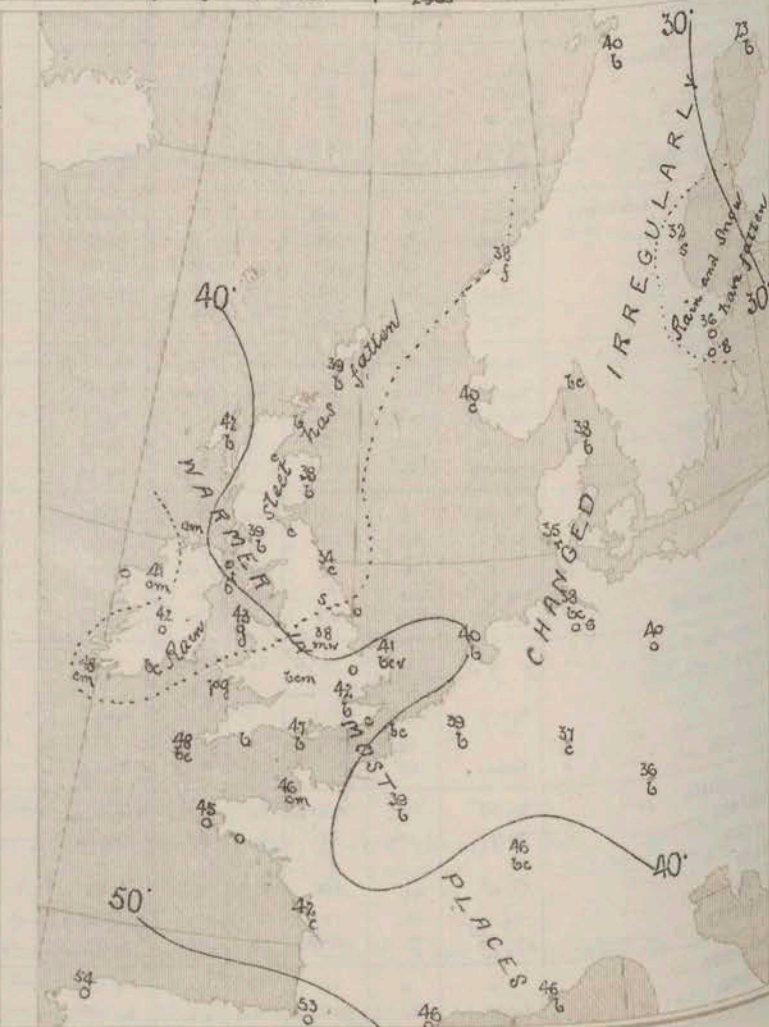
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of April.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	40.3	37.0	41.0	40.5	2.16
Stornoway.....	49.3	37.5	41.1	42.3	2.51
Wick.....	49.2	37.4	43.2	41.2	1.56
Nairn.....	51.5	37.9	43.1	40.6	1.23
Aberdeen.....	49.6	38.3	43.1	40.9	2.23
Leith.....	52.6	38.2	44.2	42.1	1.00
Shields.....	49.2	39.2	43.8	41.7	1.94
York.....	54.1	37.8	44.1	42.0	1.80
Loughborough.....	55.7	38.3	43.1	42.0	1.77
Ardrossan.....	52.1	39.9	44.6	42.2	2.23
Doungahadee.....	51.3	40.1	44.8	43.2	2.02
Holyhead.....	51.9	42.1	46.2	44.2	1.86
Liverpool.....	53.0	40.7	43.5	42.6	1.59
Parsonstown.....	55.0	38.3	45.7	43.0	2.15
Valencia.....	54.3	42.9	48.4	45.9	4.01
Roche's Point.....	54.2	42.1	47.0	44.0	3.43
Pembroke.....	59.8	42.1	45.6	43.6	9.10
Selly.....	52.5	46.0	49.0	47.1	2.45
Jersey.....	54.6	43.0	49.0	46.4	2.04
Hurst Castle.....	52.3	41.4	45.9	44.6	1.87
Dover.....	51.3	42.4	47.1	44.5	1.81
LONDON.....	59.7	49.0	46.8	43.8	1.86
Oxford.....	55.1	39.5	45.6	42.7	1.79
Cambridge.....	56.2	37.7	43.5	44.3	1.76
Yarmouth.....	49.5	40.4	45.1	43.4	1.80

NOTE—The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 20 years 1860-85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 29.8 in: to 30.1 in: and more, over northern parts of Scandinavia, and extending 29.7 in: over the North Sea, North Germany and the northeast of France.
 Lowest, 29.2 in: and less, in a depression lying off the northwest of Spain.
 Gradients moderate in the southwest, slight in the east and southeast.
 Barometer falling generally, slightly at all but the southwestern stations.

TEMPERATURE

Highest, 54° at Bouma, 53° at Biarritz, 52° at Lisbon, 48° at Sicily and Valencia.
 Lowest, 23° at L'Esperanza, 26° at Ulster, 27° at Knapic, 32° at Helsingfors and 34° at Kain and York.
 The night minima in the shade were as low as 24° at Kain, 25° at Helsingfors and 26° at Ulster, 30° at Oxford and Cambridge and 32° in London. On the coast the thermometer fell to 27°.

WIND

Strong from N.E. over northern parts of Scandinavia. Light and variable over the North Sea, Scotland, Germany and Central France.
 S.E. to E., moderate, over Ireland, England and the Bay of Biscay.
 S., a moderate gale at Lisbon.

WEATHER

Fine in most places, but dull in the extreme southwest and south.
 Rain is falling at Lisbon and at Tene, snow at York.
 The amount of rainfall measured this morning were very trifling, but consisted of snow at some northern stations—considerable quantities are reported from Kain, Cushman and Port Henry.

SEA

Rough at Lisbon only, moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 14th April 1890.

DISTRICTS.

FORECASTS.

DISTRICTS.

FORECASTS

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

NONE ISSUED.

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

NONE ISSUED.

WARNINGS

The SOUTH CONE is still flying in district 10.

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

YESTERDAY'S 2 P.M. REPORTS.

THER: WIND								THER: WIND							
BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA	
Skudesnaes ...	29.77	49	39	E	1	C	2	Holyhead ...	29.74	48	42	SSW	3	C	2
Sumburgh Head ...	29.79	40	37	L	0	C	2	Valencia ...	29.55	51	45	SSE	4	CV	4
Stornoway ...	29.79	43	41	NE	4	b	4	Scilly ...	29.69	49	45	SSE	4	bc	3
Aberdeen ...	29.79	38	36	ENE	2	cphrs	3	Jersey ...	29.79	49	43	SE	3	b	2
Shields ...	29.78	41	39	N	1	rsp	3	Dungeness ...	29.78	45	40	WSW	3	C	3
Ardrossan ...	29.73	45	42	E	2	O	1	London ...	29.77	48	39	NW	3	C	3
Malin Head ...	29.70	44	41	E	3	O	1	Yarmouth ...	29.77	43	40	NE	1	bc	2
Mullaghmore ...	29.65	48	42	SE	4	O	3	Rochefort ...	29.87	53	48	W	4	C	
Belmullet ...	29.62	49	45	SSE	5	O	*								

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

Weather fair over the greater part of Western Europe, but dull in the west of Ireland, with rain at Valencia. Cloudy or overcast over Russia, the Baltic, and Central Europe, as well as in Italy and Algeria, with rain in many places. Rain falling later at many of our western stations, and snow showers in the north and east of Great Britain.

Temperature highest 50° to 60° over the Mediterranean and on the coasts of the Iberian Peninsula (San Fernando, 59°, Madrid, 59°, and Huesca 54°). Lowest 12° at Archangel, 27° at Haparanda and Ullaborg, 32° at Kharkov, and 34° at Helsingfors, Stockholm and Paris, below 40° in most parts of Western, Northern, and Central Europe. Daily maxima below 60° in all localities excepting Spain, Algeria and south of Italy, and below 50° in most parts of the United Kingdom.

Wind light and variable over Great Britain, but SE or S in Ireland, strong in force at Valencia. Moderate from E or NE over Scandinavia and the north of Russia; W over the southern shores of the Baltic and also over Western Germany. Chiefly SE in Italy, but NW in the south of France and W in Algeria. Subsequently backing to the NE at Valencia.

Barometer highest, 30.3 ins. and upwards over the extreme north of Russia; 30.0 ins. and upwards over Central Spain. Lowest, 29.5 ins. and less, in a depression lying over the Baltic Provinces; low, 29.6 ins. and less, in three other systems lying respectively to the SW of Ireland, over the Gulf of Genoa and Northern Italy, and off the south of Italy. Depression off southwest of Ireland subsequently moving slowly in a southeasterly direction towards the Bay of Biscay.

EXPLANATION OF 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).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Monday, 14th April, 1890.

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 2.)	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 ...	30.11	24	Z	0	b	30.23	+ 0.1	24	23	+ 1	Z	0	c	*	37	12	-	
Hernösand ...	30.00	31	NE	2	s	30.08	+ 0.1	35	34	+ 3	NE	2	s	*	37	28	0.20	
Stockholm ...	29.96	37	W	2	o	29.91	+ 0.2	35	34	+ 1	ENE	4	o	*	41	34	-	
Wisby ...	29.84	37	NW	4	o	29.76	+ 0.2	45	42	+ 3	ESE	4	bc	*	45	34	-	
Bodo ...	29.94	37	E	6	b	30.03	+ 0.2	35	32	+ 3	E	4	b	2	43	28	-	
BRITISH ISLANDS.																		
Christiansund ...	29.76	41	NW	2	b	29.81	+ 0.1	42	38	+ 4	ESE	2	bc	2	43	37	-	
Skudesnaes ...	29.76	41	S	2	o	29.83	+ 0.1	38	37	+ 2	Z	0	o	3	45	34	-	
Christiania Fjord (Fæder)	29.81	41	NW	2	o	29.78	+ 0.6	37	36	+ 1	ENE	3	r	2	46	36	0.32	
Skagen (The Scaw)	29.79	39	ESE	3	o	29.78	+ 0.5	39	37	+ 1	N	2	o	2	43	37	-	
Fanø ...	29.75	36	N	2	b	29.79	+ 0.6	36	35	+ 1	NE	2	m	*	43	30	0.04	
Sumburgh Head ...	29.65	39	Z	0	c	29.72	+ 0.2	39	38	+ 0	SE	1	S	2	43	32	0.15	
Stornoway ...	29.60	42	NE	4	bc	29.65	+ 0.5	42	40	+ 0	NE	2	bc	2	45	28	-	
Wick ...	29.66	39	SE	2	bc	29.69	+ 0.2	40	36	+ 3	S	4	b	2	45	30	-	
Nairn ...	29.60	43	E	2	b	29.66	+ 0.5	40	37	+ 6	Z	0	b	1	46	27	-	
Aberdeen ...	29.66	38	SE	2	b	29.71	+ 0.1	39	37	+ 1	SE	2	or	3	43	30	-	
Leith ...	29.62	41	E	1	b	29.67	+ 0.4	42	40	+ 2	SE	1	bm	*	46	30	-	
Shields ...	29.64	38	ESE	2	o	29.67	+ 0.2	39	38	+ 5	SE	3	c	3	42	32	-	
Spurn Head ...	29.61	43	SE	5	c	29.62	+ 0.7	45	43	+ 7	E	5	c	4	45	38	-	
York ...	29.63	42	E	1	o	29.65	+ 0.5	43	41	+ 9	E	2	bc	*	45	38	0.07	
Loughborough ...	29.60	47	ENE	2	b	29.61	+ 0.9	43	41	+ 5	E	3	cm	*	53	35	-	
GERMANY.																		
Ardrossan ...	29.57	46	NE	3	c	29.62	+ 0.6	37	36	+ 2	NE	4	of	2	49	34	0.06	
Malin Head ...	29.54	42	ESE	4	c	29.55	+ 0.9	42	40	+ 2	SSE	3	bm	0	43	39	-	
Mullaghmore ...	29.50	43	E	4	apm	29.52	+ 0.8	42	40	+ 1	ENE	5	bc	3	45	39	0.01	
Belmullet ...	29.47	43	ESE	2	r	29.49	+ 0.9	43	43	+ 4	ESE	3	b	*	47	40	0.10	
Donaghadee ...	29.56	43	E	2	c	29.59	+ 0.6	44	41	+ 4	E	4	c	2	44	40	0.03	
FRANCE AND BELGIUM.																		
Liverpool (Bidston)	29.56	46	ESE	2	o	29.58	+ 0.7	43	39	+ 2	E	3	b	3	51	37	-	
Holyhead ...	29.54	47	Z	0	og	29.52	+ 1.0	44	41	+ 1	E	4	c	3	50	40	-	
Parsonstown ...	29.47	46	SE	1	r	29.47	+ 1.1	43	40	+ 1	Z	0	o	*	51	40	-	
Valencia ...	29.40	47	E	2	om	29.37	+ 1.3	49	45	+ 1	ENE	2	cm	3	50	40	0.06	
Roche's Point...	29.44	49	SE	4	bc	29.39	+ 1.3	48	45	+ 2	ESE	4	c	4	52	45	-	
Pembroke (St. Ann's Hd.)	29.46	48	ESE	5	bc	29.40	+ 1.6	46	43	+ 3	ENE	5	bc	4	50	42	-	
Scilly ...	29.39	47	E	5	c	29.23	+ 2.2	48	46	+ 0	E	6	r	5	51	45	0.01	
Prawle Point ...	29.42	45	E	5	r	29.34	+ 2.0	45	44	+ 1	E	5	ogm	4	48	44	0.03	
Jersey (St. Aubin's)	29.41	52	E	3	cm	29.30	+ 2.6	49	44	+ 3	E	4	bm	3	54	45	0.01	
Hurst Castle ...	29.51	48	E	4	c	29.43	+ 1.9	46	45	+ 1	E	6	cm	4	52	45	-	
SPAIN.																		
Dungeness ...	29.57	46	E	5	b	29.47	+ 2.1	45	41	+ 1	E	5	b	4	51	41	-	
London ...	29.58	48	E	3	bc	29.52	+ 1.6	45	42	+ 3	E	3	c	*	55	40	-	
Oxford ...	29.57	43	SE	3	c	29.52	+ 1.5	43	40	+ 2	ENE	3	o	*	51	38	-	
Cambridge ...	29.64	45	E	1	bc	29.58	+ 1.1	46	43	+ 4	E	1	o	*	54	32	-	
Yarmouth ...	29.67	43	SE	3	bv	29.61	+ 1.0	43	41	+ 2	E	5	b	4	44	40	-	
PORTUGAL.																		
Cuxhaven ...	29.74	40	NW	4	b	29.78	+ 0.8	36	35	+ 2	E	2	t	*	45	36	-	
Berlin ...	29.73	40	NW	2	b	29.73	+ 0.2	37	35	+ 3	NW	3	o	*	46	32	-	
Wiesbaden ...	*	*	*	*	*	29.68	+ 0.8	44	37	+ 7	SE	1	b	*	50	34	-	
Munich ...	29.69	37	NE	2	b	29.69	+ 0.4	37	35	+ 1	SE	5	b	*	46	27	-	
The Helder ...	29.73	42	E	2	b	29.71	+ 0.3	41	38	+ 1	E	2	b	3	45	39	-	
ITALY.																		
Brussels (9 a.m.)	*	*	*	*	*	29.58	+ 1.7	43	38	+ 4	E	1	b	*	49	35	-	
Cape Gris Nez ...	?	48	SE	5	c	?	?	41	37	+ 2	ESE	4	b	3	53	36	-	
Paris ...	29.55	52	E	2	bc	29.45	+ 2.5	45	41	+ 6	ESE	3	b	*	57	39	-	
Brest ...	29.26	54	SE	3	o	29.18	+ 3.2	50	46	+ 5	SE	1	o	3	63	43	-	
Lorient ...	29.28	55	ESE	5	bc	29.17	+ 3.2	50	46	+ 5	E	5	o	4	57	43	-	
GREECE.																		
Rochefort ...	29.39	58	SSE	4	r	29.26	+ 3.3	52	50	+ 10	SE	4	o	?	68	?	0.04	
Belfort ...	29.75	41	NW	1	c	?	?	44	36	+ 2	NW	1	bc	*	54	37	-	
Lyons ...	29.54	53	S	2	b	29.49	+ 3.1	51	43	+ 8	S	3	bc	*	58	46	-	
Nice ...	29.71	48	N	4	bc	29.71	+ 0.2	48	43	+ 2	E	6	o	3	59	43	-	
Perpignan ...	29.47	58	S	5	o	29.35	+ 3.0	53	52	+ 7	S	3	r	*	67	?	0.28	
Biarritz ...	29.26	64	SSE	1	c	29.12	+ 3.1	55	47	+ 2	SSW	2	o	0	70	52	-	
SPAIN.																		
Corunna ...	*	*	*	*	*	29.32	+ 0.4	53	51	+ 1	WSW	5	o	7	57	50	0.83	
Lisbon ...	29.26	53	WSW	6	o	29.32	+ 0.4	53	51	+ 1	WSW	5	o	7	57	50	0.83	

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 Mondays 14th April. 1890.

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:

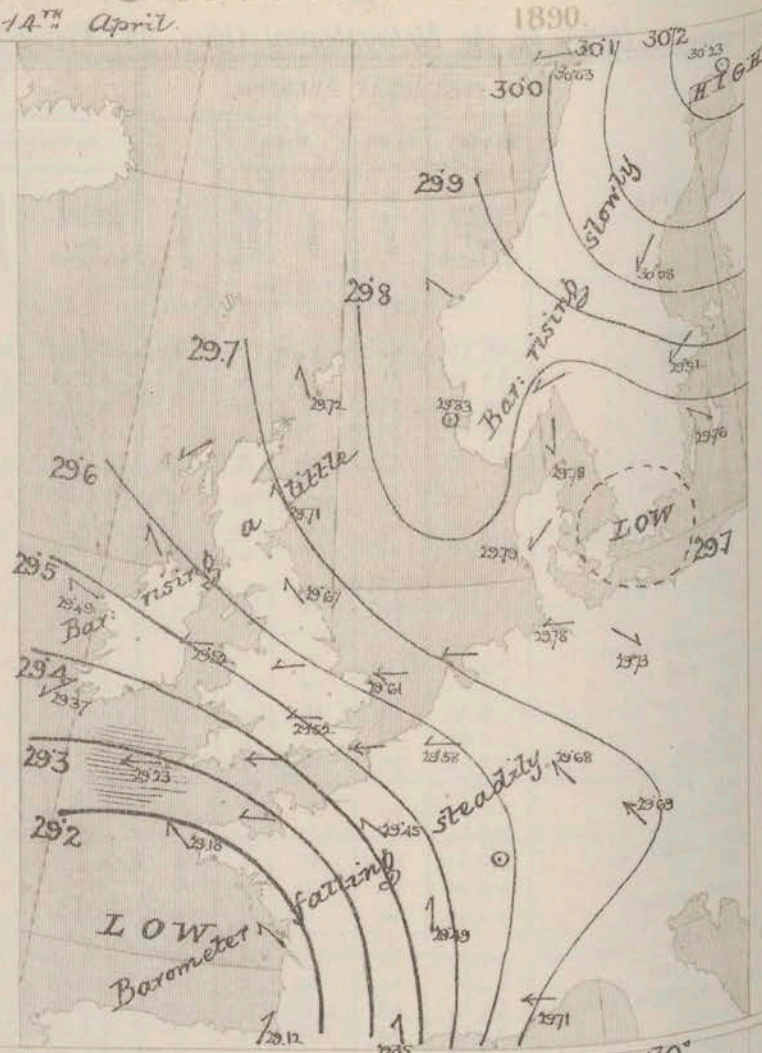
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of April.

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.849
Stornoway	29.821
Wick	29.858
Nairn	29.858
Aberdeen	29.862
Leith	29.865
Shields	29.870
York	29.877
Loughborough	29.878
Ardrossan	29.867
Donaghadee	29.853
Holyhead	29.851
Liverpool	29.864
Parsonstown	29.853
Valencia	29.855
Roche's Point	29.858
Pembroke	29.844
Scilly	29.849
Jersey	29.867
Hurst Castle	29.867
Dover	29.866
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.876



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 April.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Day.	Night.	
Sumburgh Head.....	46.3	37.3	41.9	40.5	2.16
Stornoway	49.3	37.5	44.1	42.3	2.51
Wick	49.2	37.4	43.2	41.2	1.56
Nairn	51.5	37.9	43.1	40.6	1.23
Aberdeen	49.6	38.5	43.4	40.9	2.23
Leith	52.0	38.2	44.2	42.1	1.65
Shields	49.2	39.2	43.8	41.7	1.94
York	54.1	37.8	44.1	42.0	1.86
Loughborough	55.7	38.3	45.1	42.6	1.77
Ardrossan	52.1	39.9	44.0	42.2	2.23
Donaghadee	51.3	40.1	44.8	43.2	2.02
Holyhead	51.9	42.4	46.2	44.2	1.80
Liverpool	53.0	40.7	45.5	42.6	1.56
Parsonstown	55.0	38.5	45.7	43.0	2.15
Valencia	54.3	42.9	48.4	45.9	4.01
Roche's Point	54.2	42.1	47.0	44.9	3.43
Pembroke	50.8	42.1	45.0	43.6	2.10
Scilly	52.5	45.0	49.0	47.1	2.45
Jersey	54.8	43.6	49.0	45.4	2.04
Hurst Castle	52.3	41.4	45.9	44.6	1.87
Dover	51.5	42.4	47.1	44.5	1.81
LONDON	56.7	40.0	48.8	43.8	1.86
Oxford	55.1	39.3	45.0	42.7	1.79
Cambridge	56.2	37.7	45.5	43.3	1.76
Yarmouth	49.5	40.4	45.1	43.4	1.80

NOTE.—The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 20 years 1866-85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 29.9 in. to 30.2 in. over the northern parts of Scandinavia and the Gulf of Bothnia.
Lowest, 29.2 in. and less, over the Bay of Biscay.

Gradient moderate in the south and west, slight in the north and east.

Barometer falling slowly except over Scandinavia, where it is rising a little.

TEMPERATURE

Highest, 50° to 55° on the Spanish coast and in the southwest and west of France.

Lowest, 34° to 35° in Sweden and the north of Norway, 37° at Berlin, 38° at Aberdeen, 45° in London and at Paris.

It rose to between 50° and 55° in the south and east of our islands during yesterday afternoon (53° in London).

WIND

E^{ly} moderate to fresh over the greater part of England and Ireland, strong in the Channel.

SE^{ly} light in Scotland, SE^{ly} moderate in the west of France, and SW^{ly} fresh at Lisbon.

WEATHER

Fair in most places, and cloudless in several. In the west of France, however, it is dull, and at ^{at} Bally and Aberdeen rain is falling, while ^{at} Edinburgh and reports snow.

Some rain fell yesterday in the west and southwest, and snow at some northern and northwestern stations. Some hail was seen at most of our southern stations.

SEA

High at Lisbon, rough at Bally, moderate in the Channel and on our east coast, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The E^{ly} wind appears likely to become still stronger at our southern stations, but to veer subsequently in the southwest and then decrease in force in the Channel.

FORECASTS

For the 24 hours ending at NOON on 15th April. 1890.

DISTRICTS.

FORECASTS.

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

SE^{ly} breezes, light or moderate, fair.

E^{ly} breezes, moderate inland, strong on coast, fair generally.

DISTRICTS.

FORECASTS

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

E^{ly} and SE^{ly} breezes, moderate; fair.

E^{ly} winds, strong, squally, some rain.

E^{ly} and SE^{ly} breezes, moderate or fresh; cloudy, showers in south and east.

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 ...	29.74	44	38	S	2	c	2		Holyhead ...	29.56	48	42	c	3	2
Sumburgh Head ...									Valencia ...						
Stornoway ...	29.64	45	43	NE	2	b	2		Scilly ...						3
Aberdeen ...									Jersey ...	29.49	54	48	ESE	4	2
Shields ...									Dungeness ...	29.63	51	45	E	3	2
Ardrossan ...									London ...						?
Malin Head ...	29.58	42	39	SE	4	c	2		Yarmouth ...						
Mullaghmore ...									Rochefort ...	29.46	63	52	ESE	5	bc
Belmullet ...	29.54	46	42	E	3	o	*								

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

Weather in morning dull and unsettled over Spain, the Bay of Biscay, and the west of France, with much rain at Lisbon and slight falls at some other places; dull and very rainy over Central and Southern Europe, fair or fine elsewhere, slight rain in the west and southwest of our Islands, later, larger quantities over Southern and Southwestern Europe, and a considerable quantity in some parts of Sweden. Temperatures rather low generally; exceeding 50° at the Spanish stations, and over the southern and eastern parts of the Mediterranean, below 50° elsewhere, below 40° in many parts of our Islands, as well as over Scandinavia, and as low as 23° at Haparanda, 27° at Kieps, and 32° at Hernoand. Rising to between 60° and 70° in the southwest of France later, and to between 50° and 55° in the west and south of the United Kingdom. Very sharp frost in north of Scotland still later.

Wind S. in Spain and Portugal, fresh to a gale in force, SE over the Bay of Biscay, the Channel, England, and Ireland, fresh to light in force; NE to E over Northern Europe, very variable elsewhere. The SE wind spreading to Scotland later, while wind at Lisbon veered to SW.

Barometer highest, 29.9 ins. to 30.1 ins. and more, over Northern Europe, and 29.8 ins. to 30.0 ins. and more, over the other parts of Russia; lowest 29.2 ins. and less, in a large depression, lying to the westward of Spain. Gradients moderate in the extreme southwest and also over Northern Europe, very slight and irregular over the North Sea, Germany, Austria, the north of Italy and the south of France. Depression in southwest advancing to Bay of Biscay later, and barometer falling steadily throughout our Islands.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 6TH TO THE 12TH APRIL 1890.

In the course of this week the weather over the British Islands was cold, unsettled and, showery; the showers consisting mainly of snow, sleet or hail especially on our north and east coasts, where the falls were of daily occurrence. These conditions were brought about by the advance from the westward of a depression which moved across the northern parts of the Kingdom, as a comparatively shallow system, early on Monday. In its journey across the North Sea, however, it became much deeper, so that on Tuesday and part of Wednesday N. gales of considerable force were felt on our northeast coasts, and thunderstorms occurred in the snow squalls over many parts of England. At the close of the week the disturbance had almost entirely filled up over Denmark, and a new depression had appeared off our western coast.

Temperatures have been low generally, especially during some of the nights, when very sharp frosts occurred on the grass in all parts of the Kingdom, the minima, even in the shade, were below the freezing point at several of our northern and western stations on Friday and Saturday mornings.

EXPLANATION OF 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).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for TUESDAY 15TH APRIL

1890.

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 4.)	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 ...	30.24	30	2	0	bc	30.24	+0.1	37	9	+13	2	0	bc	41	?	—		
Hernösand ...	30.10	34	NE	4	0	30.09	+0.1	36	35	+1	NE	4	0	36	28	—		
Stockholm ...	29.85	39	E	2	T	29.78	-.13	37	37	+2	NE	6	T	41	34	0.08		
Wisby ...	29.70	40	SE	4	T	29.66	-.10	44	43	-1	SE	2	bc	54	37	0.16		
Bodo ...	30.04	36	E	2	bc	30.07	+0.04	41	37	+6	E	4	bc	41	34	—		
CHRISTIANIA.																		
Christiansund ...	29.88	44	NW	2	bc	29.88	+0.07	39	37	-3	SSE	2	bc	48	36	—		
Skudesnaes ...	29.86	39	S	1	C	29.78	-.08	44	38	+6	2	0	C	48	36	—		
Christiania Fjord (Færder) ...	29.83	40	N	6	0	29.76	-.02	40	40	+3	NNE	6	T	?	?	—		
Skagen (The Scaw) ...	29.75	41	NE	3	0	29.66	-.12	42	41	+3	NE	3	0	43	39	—		
Fanø ...	29.73	37	N	2	C	29.67	-.12	40	39	+4	NNE	2	0	48	36	—		
SCOTLAND.																		
Sumburgh Head ...	29.75	42	SE	2	C	29.78	+0.06	42	40	+3	SE	2	0	45	35	0.04		
Stornoway ...	29.61	42	SE	3	0	29.62	-.03	44	42	+2	SE	4	bc	48	38	0.04		
Wick ...	29.72	43	S	4	bc	29.72	+0.03	43	39	+3	S	5	0	46	39	—		
Nairn ...	29.63	46	SSE	1	bc	29.67	+0.01	40	38	0	E	2	bc	48	31	—		
Aberdeen ...	29.72	42	SE	3	C	29.72	+0.01	43	40	+4	SE	3	C	46	39	0.03		
ENGLAND.																		
Leith ...	29.65	45	SE	3	0	29.65	-.02	42	40	0	E	1	0	53	35	—		
Shields ...	29.65	43	SSE	4	C	29.62	-.05	43	42	+4	SSE	4	0	46	37	—		
Spurn Head ...	29.55	43	ENE	6	bc	29.54	-.08	44	42	-1	ENE	6	0	47	41	—		
York ...	29.61	45	E	3	bc	29.58	-.07	45	42	+2	ENE	1	0	52	38	—		
Loughborough ...	29.52	48	ENE	4	bc	29.50	-.11	44	43	+1	ENE	2	0	59	40	0.08		
IRELAND.																		
Ardrossan ...	29.59	48	NE	3	0	29.60	-.02	43	40	+6	NE	4	bc	54	35	—		
Malin Head ...	29.53	47	SE	4	bc	29.53	0.0	42	39	0	SSE	4	bc	51	40	—		
Mullaghmore ...	29.50	51	SSE	4	Cm	29.52	0.0	41	39	-1	ENE	5	bc	52	39	—		
Belmullet ...	29.48	51	ENE	2	0	29.51	+0.02	44	43	-1	E	2	bc	53	?	—		
Donaghadee ...	29.55	48	E	3	C	29.56	-.03	44	41	0	E	5	C	50	41	—		
Wales.																		
Liverpool (Bidston) ...	29.48	50	GNE	6	bc	29.48	-.10	44	42	+1	ENE	5	0	53	40	0.03		
Holyhead ...	29.46	50	E	5	Cm	29.45	-.07	43	42	-1	E	5	Tmg	54	41	0.05		
Parsonstown ...	29.45	53	2	0	bc	29.43	-.04	45	41	+2	NE	2	bc	58	39	—		
Valencia ...	29.36	56	ENE	3	bc	29.38	+0.01	46	44	-3	N	2	Cm	59	44	0.03		
Roche's Point ...	29.39	51	E	5	bc	29.35	-.04	40	45	0	E	5	Cm	54	45	—		
Wales.																		
Pembroke (St. Ann's Hd.) ...	29.34	52	ENE	4	bc	29.32	-.08	45	45	-1	ENE	4	Pg	53	44	0.03		
Scilly ...	29.19	49	ENE	5	0	29.19	-.04	49	48	+1	E	5	bc	50	45	0.05		
Prawle Point ...	29.25	49	E	7	C	29.27	-.06	49	48	+4	E	4	bc	50	45	0.09		
Jersey (St. Aubin's) ...	29.21	56	E	4	C	29.24	-.07	49	47	0	E	4	Cm	58	47	0.01		
Hurst Castle ...	29.32	52	E	5	Cm	29.32	-.11	50	49	+4	E	4	C	56	46	0.02		
Wales.																		
Dungeness ...	29.35	48	E	6	C	29.35	-.12	50	47	+5	E	4	C	51	45	0.03		
London ...	29.43	51	E	4	C	29.39	-.13	47	44	+2	SSE	3	0	57	45	0.01		
Oxford ...	29.43	48	ENE	4	0	29.39	-.13	46	44	+3	NE	3	0	58	43	0.02		
Cambridge ...	29.48	50	E	2	bc	29.43	-.15	46	44	0	E	2	0	60	43	—		
Yarmouth ...	29.51	45	E	6	bc	29.49	-.12	44	42	+1	E	6	C	47	40	—		
Wales.																		
Cuxhaven ...	29.74	41	NE	3	bc	29.65	-.13	40	39	+4	S	3	bc	46	?	—		
Berlin ...	29.68	43	NW	2	0	29.65	-.08	42	41	+5	WNW	2	0	46	?	—		
Wiesbaden ...	*	*	*	*	*	29.53	-.15	50	45	+6	NE	1	C	57	43	—		
Munich ...	29.56	43	SE	4	bc	29.56	-.13	45	42	+8	SE	4	bc	57	32	—		
The Helder ...	29.60	47	ENE	3	bc	29.58	-.13	41	39	0	E	4	C	50	39	—		
FRANCE AND BELGIUM.																		
Brussels (0 a.m.) ...	*	*	*	*	*	29.45	-.13	48	43	+5	E	1	bc	63	43	—		
Cape Gris Nez ...	*	49	E	4	C	?	?	50	44	+9	SSE	4	C	63	37	—		
Paris ...	29.39	53	SSE	3	0	29.36	-.09	52	46	+7	SE	2	bc	64	45	0.04		
Brest ...	29.01	53	SE	1	T	29.16	-.02	49	48	-1	SE	3	bc	61	45	0.16		
Lorient ...	29.13	51	SE	3	T	29.15	-.02	48	47	-2	E	2	C	61	45	0.08		
Wales.																		
Rochefort ...	29.24	51	SSE	4	bc	29.25	-.01	?	49	?	SSE	4	0	63	43	0.28		
Belfort ...	29.44	47	SSE	1	bc	29.45	?	46	38	+2	WNW	1	bc	62	37	—		
Lyons ...	29.42	48	S	1	0	29.42	-.07	50	44	-1	SSE	2	0	58	45	0.04		
Nice ...	29.65	44	E	6	T	29.67	-.04	46	45	-2	ENE	6	T	54	43	0.63		
Perpignan ...	29.30	57	S	5	T	29.30	-.05	56	50	+3	SE	2	0	66	50	0.24		
Barritz ...	29.11	63	S	4	C	29.20	+0.08	51	46	-4	WNW	4	T	68	50	—		
Wales.																		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Lisbon ...	29.34	50	WNW	5	T	29.40	+0.08	49	48	-4	WNW	4	0	55	48	0.67		

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

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

1890

EXPLANATION OF MAP.

$\Rightarrow \Rightarrow$ = forces above 10 ; $\Rightarrow \Rightarrow$ = forces 8 to 10 ;

\longrightarrow = *forca* 5 to 7; \longrightarrow = *forca* 1 to 4.

AND RAINFALL

[illegible]

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.2 in. over the northern half of Scandinavia, 30.7 in. and more, over the southeast of France.
 Lowest, 29.2 in. and less, over the Bay of Biscay.
 Gradient slight and irregular over Germany and the North Sea, moderate elsewhere.
 Barometer rising over Spain and the south of France, changing very little in our Islands.

TEMPERATURE

Highest, 56° at Perpignan, 52° at Paris, 51° at Athens, 50° at Rochefort, Hunt Castle, Dungeness, and Newcastle.
 Lowest, 36° at Boucaud, 37° at Espinosa and Nîmes, 40° at Aken, Paris and Cork.
 At all our other stations it exceeds 40°. During yesterday it rose to 60° at Cambridge, 58° at Southport and Valencia, 58° at Portonmouth, Jersey and Oxford, and to 67° in London.

WIND

Becoming more S. over France and the Bay of Biscay than it was yesterday and has veered to SW at Athens.
 Over England, Ireland, and the Channel it is E., strong to moderate, and over Scotland SE. and light.
 The E. wind is less strong in the Channel than it was yesterday.

WEATHER

Fair in most places, especially in the north, but showery at times at several of our southwestern and southern stations and in the southwest of France.
 Slight showers have fallen very generally at our western and southern stations since yesterday.

SEA

Rather rough both on our eastern and western coasts, moderate in the Channel, and moderate to slight in the north.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

As the depression over the Bay of Biscay and some very shallow secondaries over France move northwards the wind is likely to shift to S. or S.W. over the southern parts of the kingdom with showers, and not improbably with thunder locally.

FORECASTS

For the 24 hours ending at NOON on 16th April

1890.

DISTRICTS.

FORECASTS.

DISTRICTS.

FORECASTS

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

SE² breezes, light to moderate, fair generally.
 E² winds, strong; fair as a whole.
 E² winds, moderate; some local showers with fine intervals.
 E² to SE² winds, fresh; fair as a whole today, perhaps showers tomorrow.

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

Same as Nos 0 and 1.
 E² winds, fresh or strong; passing showers, rather unsettled.
 E² and SE² winds, moderate or fresh; unsettled, 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.

THER: WIND								THER: WIND							
	BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA
Skudesnaes ...	29.86	40 ¹	41	SPW	2	bc	3	Holyhead ...	29.50	52	44	E	4	bc	3
Sumburgh Head ...	29.75	43	40	SE	2	bc	3	Valencia ...	29.30	56	49	ENE	3	bc	3
Stornoway ...	29.62	48	45	S	3	c	3	Scilly ...	29.23	49	47	E	6	bc	3
Aberdeen ...	29.72	44	40	SPSE	3	bc	3	Jersey ...	29.25	56	51	E	5	bc	3
Shields ...	29.66	46	44	E	4	c	3	Dungeness ...	29.50	51	46	E	6	bc	3
Ardrossan ...	29.60	52	49	ENE	2	c	1	London ...	29.46	55	48	E	4	bc	3
Malin Head ...	29.54	47	44	SE	4	bc	2	Yarmouth ...	29.57	47	44	E	6	bc	3
Mullaghmore ...	29.51	51	45	E	5	c	3	Rochefort ...	29.25	60	56	SE	3	bc	3
Belmullet ...	29.49	52	40 ¹	E	2	c	*								

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

Weather fine over the greater part of the British Isles, the North Sea, and Norway, as well as over the eastern and southeastern parts of the Mediterranean and Adriatic, the east of France, and Western Germany, dull and unsettled elsewhere, with rain and snow in several parts of Austria, Russia and Sweden, and local rain showers over the Bay of Biscay and at Scilly. Rain later over France and the west and south of our islands, with thunder locally. Some slight falls at the Swedish stations and in the north of Scotland. [Hamburg report heavy snow in Portholme.]

Temperatures rising over France, Spain and the eastern part of Great Britain, morning readings varying from 50° to 67° on the southern shores of the Mediterranean, and exceeding 50° in Portugal and the west of France, lower elsewhere; below 40° over Northern Europe, the Baltic and North Sea, and as low as 16° at Archangel, 24° at Haparanda, 32° at Kuopio, and 33° at Hangö, and 36° at Jani and Cuxhaven. Daily maxima ranging from 50° to 60° over Ireland and England, and 60° to 68° over France.

Winds SW^{ly} to S^{ly} over the Spanish Peninsula, SE^{ly} to E^{ly} over France and the British Islands, very variable over the North Sea and Germany. E^{ly} over the Baltic and north of Norway. The E^{ly} wind blowing strongly at first in the south of France and the English Channel, moderating later, and tending to veer at Biarritz.

Barometer highest 30.0 to 30.3 in: over Russia, Ireland and Scandinavia, lowest 29.0 in: to 29.2 in: in a depression over the northwest of Spain and the Bay of Biscay, and 29.6 in: and less, in another depression over Poland. Western depression moving northwest later, and barometers beginning to rise over Spain.

EXPLANATION OF 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).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for *Wednesday, 16th April, 1890.*
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

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.		Sea. (0 to 12.)	SHADE TEMP.		Amount of Rainfall.	
			Force. (0 to 12.)	Dir.		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 ...	30.21	31	W	0	r	30.31	+ .07	27	26	- 10	ESE	4	bc	*	43	18	-
Hernösand ...	30.07	36	NE	4	0	30.03	- .06	36	33	0	ESE	4	bc	*	39	32	-
Stockholm ...	29.80	37	NE	4	r	29.74	- .04	38	37	+ 1	ESE	4	bc	*	41	36	0.32
Wisby ...	29.73	40	ESE	4	f	29.67	+ .01	38	38	- 6	N	2	bc	*	54	36	0.08
Bodo ...	30.05	40	E	2	b	30.04	- .03	42	39	+ 1	E	4	bc	2	46	37	-
CHRISTIANIA.																	
Christiansund ...	29.82	45	W	0	bc	29.87	- .01	43	41	+ 4	ESE	1	bc	0	50	39	-
Skudesnaes ...	29.80	46	W	0	0	29.83	+ .05	43	42	+ 4	ESE	2	c	2	50	39	-
Christiania Fjord (Færder) ...	29.83	42	ESE	6	0	29.83	+ .07	39	38	- 1	N	6	0	2	43	39	0.04
Skagen (The Seaw) ...	29.73	41	E	3	0	29.80	+ .14	41	40	- 1	NE	3	c	3	45	39	-
Fanø ...	29.65	46	SE	1	0	29.68	+ .01	44	43	+ 4	E	4	c	*	48	39	-
SCOTLAND.																	
Sumburgh Head ...	29.74	42	ESE	3	c	29.84	+ .06	45	42	+ 3	E	2	bc	3	46	38	-
Stornoway ...	29.62	49	SE	2	b	29.69	+ .07	45	44	+ 1	SE	6	0	4	49	39	-
Wick ...	29.73	43	S	5	0	29.79	+ .07	43	40	0	SE	5	0	4	49	40	-
Nairn ...	29.64	48	E	2	b	29.72	+ .05	44	43	+ 4	E	2	om	1	53	39	-
Aberdeen ...	29.72	41	ESE	3	0	29.74	+ .02	42	42	- 1	E	4	og d	5	47	41	0.02
ENGLAND.																	
Leith ...	29.65	43	E	4	0	29.66	+ .01	44	43	+ 2	E	2	0	*	47	40	0.01
Shields ...	29.62	42	E	3	0	29.60	- .02	45	44	+ 2	ESE	3	0	4	46	40	-
Spurn Head ...	29.52	43	E	6	0	29.45	- .09	44	41	0	ESE	6	og	5	47	41	-
York ...	29.57	42	ESE	3	0	29.52	- .06	46	45	+ 1	E	1	0	*	48	39	-
Loughborough ...	29.48	46	ESE	4	c	29.45	- .05	45	44	+ 1	ESE	3	0	*	56	40	0.11
IRELAND.																	
Ardsrassan ...	29.56	46	NE	4	c	29.59	- .01	46	44	+ 3	ESE	4	om	3	53	40	-
Malin Head ...	29.51	47	E	4	0	29.55	- .00	45	42	+ 3	ESE	5	bc	2	48	41	0.01
Mullaghmore ...	29.46	48	ESE	6	ogm	29.51	- .01	42	40	+ 1	ESE	6	og	4	50	40	-
Belmullet ...	29.45	50	ESE	2	0	29.48	- .03	43	42	- 1	ESE	3	c	*	52	42	0.04
Donaghadee ...	29.51	47	E	4	0	29.55	- .01	44	41	0	E	6	c	4	49	42	0.19
LIVERPOOL.																	
Liverpool (Bidston) ...	29.46	45	ESE	5	bc	29.48	- .00	43	42	- 1	ESE	5	0	4	49	39	0.01
Holyhead ...	29.57	46	E	6	0	29.46	+ .01	42	41	- 1	E	6	ogm	6	48	40	0.25
Parsonstown ...	29.38	46	NE	2	0	29.41	- .02	43	40	- 2	NE	3	0	*	48	40	-
Valencia ...	29.30	49	ESE	3	rm	29.33	- .05	45	43	- 1	ESE	3	ogm	3	53	43	0.04
Roche's Point ...	29.30	48	E	4	d	29.32	- .03	45	45	- 3	ESE	4	d	4	49	43	0.10
WALLES.																	
Pembroke (St. Ann's Hd.) ...	29.39	54	E	4	bc	29.29	- .03	47	46	+ 2	ESE	6	og	3	55	44	0.02
Saillly ...	29.18	51	E	4	c	29.12	- .07	50	49	+ 1	E	4	0	3	53	47	-
Prawle Point ...	29.23	51	E	5	c	29.26	- .01	47	47	- 2	E	3	0	3	54	46	0.09
Jersey (St. Aubin's) ...	29.18	54	ESE	3	c	29.29	+ .05	50	49	+ 1	ESE	4	ogm	3	63	48	0.18
Hurst Castle ...	29.28	54	ESE	4	c	29.32	- .00	49	48	- 1	E	4	c	2	58	48	0.13
ENGLAND.																	
Dungeness ...	29.33	49	E	4	0	29.33	- .02	49	47	- 1	E	3	c	2	53	46	0.03
London ...	29.36	51	E	3	0	29.36	- .03	51	49	+ 4	SE	1	c	*	60	46	0.22
Oxford ...	29.39	50	NE	3	r	29.37	- .02	45	44	- 1	ESE	2	0	*	61	42	0.09
Cambridge ...	29.41	50	E	3	c	29.41	- .02	48	47	+ 2	NE	1	0	*	62	42	0.07
Yarmouth ...	29.46	44	ESE	6	bc	29.42	- .07	45	44	+ 1	E	4	c	4	45	42	-
FRANCE.																	
Cuxhaven ...	29.62	45	ESE	3	0	29.60	- .05	43	42	+ 3	ESE	5	bc	*	51	?	-
Berlin ...	29.61	50	ESE	2	c	29.60	- .05	43	42	+ 1	NE	3	0	*	57	41	-
Wiesbaden ...	*	*	*	*	*	29.53	- .00	54	49	+ 4	N	1	0	*	64	48	-
Munich ...	29.49	49	SE	3	c	29.54	- .02	47	42	+ 2	SW	4	c	*	66	39	-
The Helder ...	29.50	46	ESE	3	b	29.49	- .09	44	43	+ 3	E	3	c	3	48	41	-
NETHERLANDS.																	
Brussels (9 a.m.) ...	*	*	*	*	*	29.45	- .00	53	48	+ 5	SE	3	bc	*	64	48	-
Cape Gris Nez ...	?	?	S	2	0	?	?	49	46	- 1	E	2	c	1	68	45	0.12
Paris ...	29.34	53	SE	3	0	29.41	+ .05	50	45	- 2	ESE	2	bc	*	62	46	-
Brest ...	29.19	51	ESE	1	r	29.17	+ .01	52	50	+ 3	S	3	0	3	63	46	0.04
Lorient ...	29.17	53	S	2	0	29.20	+ .05	51	50	+ 3	S	3	c	3	59	46	-
FRANCE AND BELGIUM.																	
Rocheport ...	29.30	53	WSW	3	0	29.35	+ .10	50	48	?	ESE	4	bc	?	?	43	0.12
Belfort ...	29.40	47	N	2	c	29.52	+ .07	48	38	+ 2	S	1	0	*	66	38	-
Lyons ...	29.44	60	S	3	c	29.47	+ .05	51	47	+ 1	SE	3	bc	*	54	44	0.39
Nice ...	29.62	48	SE	6	r	29.62	- .05	48	47	+ 2	ESE	4	0	4	50	46	1.34
Perpignan ...	29.32	59	SSW	5	bc	29.37	+ .07	54	48	- 2	SW	2	0	*	69	49	-
Barritz ...	29.26	58	S	4	0	29.28	+ .08	55	48	+ 4	S	2	0	2	68	?	0.20
SPAIN.																	
Corunna ...	*	*	*	*	*	29.38	- .02	51	49	+ 2	WSW	5	0	?	57	?	0.24
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

Wednesday, 16th April.

1890.

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:

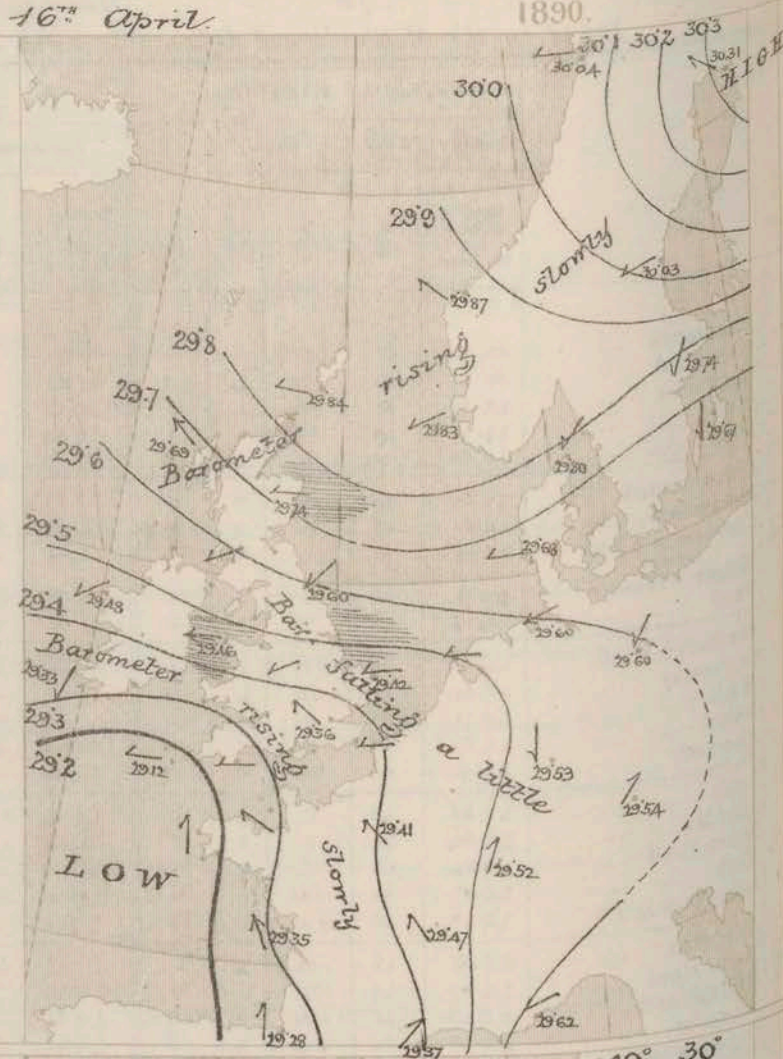
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of April.

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.849
Sternoway	29.821
Wick	29.853
Nairn	29.853
Aberdeen	29.802
Leith	29.865
Shields	29.870
York	29.877
Loughborough	29.878
Androssan	29.857
Donaghadee	29.853
Holyhead	29.861
Liverpool	29.864
Parsonstown	29.863
Valencia	29.835
Roche's Point	29.838
Pembroke	29.844
Silly	29.849
Jersey	29.867
Hurst Castle	29.867
Dover	29.866
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.876



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.

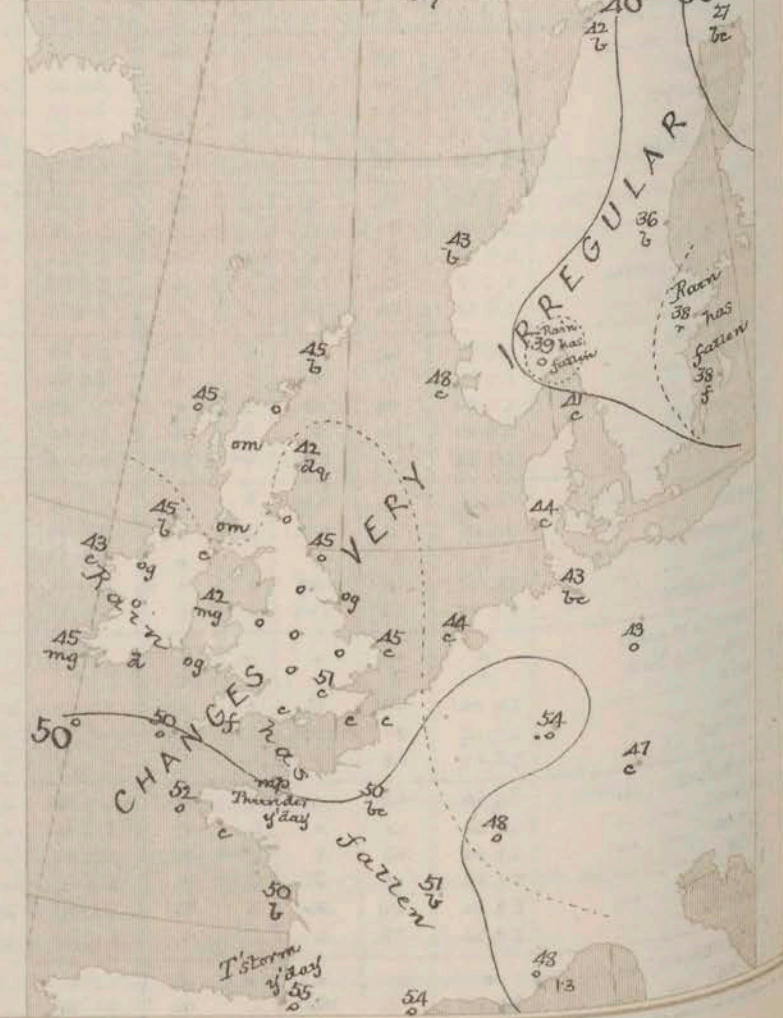
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of April.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Dry, at 8 a.m.	Wet	
Sumburgh Head	46.3	37.3	41.9	40.6	2.16
Sternoway	49.3	37.6	44.1	42.3	2.51
Wick	49.2	37.4	43.2	41.2	1.56
Nairn	51.6	37.9	43.1	40.6	1.23
Aberdeen	49.6	38.5	43.4	40.9	2.23
Leith	52.6	38.2	44.2	42.1	1.66
Shields	49.2	39.2	43.8	41.7	1.94
York	54.1	37.8	41.4	42.0	1.86
Loughborough	45.7	38.3	43.1	42.6	1.77
Androssan	52.1	39.9	44.6	43.2	2.23
Donaghadee	51.3	40.1	44.8	43.2	2.02
Holyhead	51.2	42.4	46.2	44.2	1.86
Liverpool	53.0	40.7	45.6	42.6	1.56
Parsonstown	55.0	38.3	45.7	43.0	2.15
Valencia	54.3	42.9	48.4	46.9	4.01
Roche's Point	54.2	42.4	47.0	44.9	3.43
Pembroke	50.8	42.1	45.6	43.6	2.10
Silly	52.5	45.0	49.0	47.1	2.45
Jersey	51.6	43.6	49.0	46.4	2.94
Hurst Castle	52.3	41.4	45.9	44.6	1.87
Dover	51.5	42.4	47.1	44.5	1.81
LONDON	50.7	40.0	46.8	43.8	1.86
Oxford	55.1	39.3	49.0	42.7	1.79
Cambridge	56.2	37.7	45.6	43.3	1.76
Yarmouth	49.5	40.4	45.1	43.4	1.80

NOTE.—The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 20 years 1866-85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 29.3 in: to 30.2 in: and more, over the northern parts of Sweden and Norway.

Lowest, 29.2 and less, over the Bay of Biscay and off our southwest coast.

Gradients moderate - for E winds in our Islands, SE to S over France, and SW over Spain.

Barometer rising slowly in Spain and south of France, falling slightly and irregularly in our Islands.

TEMPERATURE

Highest, 55° at Rinnitz, 54° at Perpignan and Wiesbaden, 51° at Lisbon and in London, 50° at Paris and Jersey.

Lowest, 27° at Kaparanda, 36° to 38° at the other Swedish stations. Elsewhere it exceeds 40°.

At most of our stations it has not been below 40° all night; and during yesterday afternoon it reached 60° in London, 61° at Oxford and Bathurst.

WIND

E and SE in our Islands, light to moderate over England, fresh to strong in Ireland and Scotland.

In France it is S and SE, light to moderate, and in Spain S to SW.

WEATHER

Fine and bright over the northern parts of Scandinavia and at some of the French stations, dull and unsettled elsewhere, with rain in some places, and fog at Cowes Point.

Some rain has fallen in most parts of our Islands and France - heavily at Nice, thunder has occurred at Jersey and in France.

SEA

Rough at Holyhead, Aberdeen, and Spurn Head, moderate on our northern, eastern, and western coasts, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The disturbances in the south seem likely to spread more and more over us, and to cause rainy, thundery weather in many places, especially in the southern and southwestern districts.

FORECASTS

For the 24 hours ending at NOON on 17th APRIL 1890.

DISTRICTS.

FORECASTS.

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

SE and E winds, fresh; dull, some rain.

Varying E to S winds, light and moderate; dull, much rain at times, thunder locally.

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.

E and NE winds, moderate and fresh; changeable, rain at times.

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 ...	29.82	50	46	rrw	2	0	2		Holyhead ...	29.43	46	45	E	6	og m
Sumburgh Head ...	29.73	44	41	SE	2	6c	3		Valencia ...	29.34	52	49	NE	4	om
Stornoway ...	29.63	47	46	SE	3	6	3		Scilly ...	29.21	52	51	E	4	6c
Aberdeen ...	29.72	43	40	SE	4	c	4		Jersey ...	29.20	63	57	ENE	3	6c
Shields ...	29.63	44	42	ESE	5	0	4		Dungeness ...	29.31	53	49	E	4	6c
Ardrossan ...	29.57	53	47	NE	4	c	2		London ...	29.36	57	51	ESE	3	6m
Malin Head ...	29.53	48	45	ESE	5	6	2		Yarmouth ...	29.49	45	43	E	5	6c
Mullaghmore ...	29.48	49	45	ENE	6	om	4		Rochefort ...	29.26	60	54	S	3	c
Belmullet ...	29.47	51	48	ENE	4	0	*								

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

Weather fine and bright in Southeastern Europe, as well as in the north of Russia, Norway, Scotland, and Ireland, and (temporarily) in the Netherlands and northeast of France; dull and unsettled elsewhere, much rain in south of France, and a little in some parts of Germany, fog at Bayreuth and Rego. Heavy rain in south of France continuing, and smaller quantities at the other French districts, with thunder and lightning in places. Some rain at the English and Irish stations also.

Temperature rising over the greater part of Western Europe, highest 50° to 60° over the Mediterranean and in the north of Spain, and exceeding 50° in Southern Russia; lowest, 12° at Archangel, 30° to 40° over Finland, but exceeding 40° in all parts of the United Kingdom. Raining to between 55° and 62° over England later, and to between 60° and 70° over France and South Germany.

Wind SW^{ly} fresh over Spain, S^{ly}, strong in the south of France, SE^{ly} to E^{ly} over Northwestern Europe, fresh to strong in many places, and E^{ly} to NE^{ly} over the Gulf of Finland, Sweden, and Denmark, variable elsewhere.

Barometer highest, 30.0 in. to 30.2 in. and more over Lapland, Finland, and the greater part of Russia, lowest, 29.2 in. to 29.4 in. in a complex depression over the Bay of Biscay, 29.6 in. and less, in a small disturbance over North Germany; gradients slight over Central and Southeastern Europe, moderate elsewhere. Depression over Bay of Biscay, and shallow secondaries over France, advancing northward very slowly during day, and barometer rising over Spain and Southern Europe.

EXPLANATION OF 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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DAILY WEATHER REPORT.

for *Thursday, 17th April, 1890.*
 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.		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 ...	30.38	23	2	0	C	30.54	+ 2.3	19	18	- 8	20	0	6	*	32	18	-	
Hernösand ...	30.15	32	NE	4	C	30.23	+ 2.0	32	28	- 4	NE	6	60	*	41	30	-	
Stockholm ...	29.82	37	NE	2	T	29.86	+ 1.2	36	36	- 2	ESE	6	7	*	39	36	0.24	
Wisby ...	29.75	39	NE	4	C	29.73	+ 0.6	42	42	+ 4	E	4	3	*	43	36	-	
Bodo ...	30.09	40	E	2	O	30.16	+ 1.2	35	33	- 7	E	6	6	3	45	30	-	
CHRISTIANIA.																		
Christiansund ...	29.88	46	ESE	1	B	29.89	+ 0.2	46	42	+ 3	ESE	3	6	2	50	41	-	
Skudesnaes ...	29.86	45	NE	2	BC	29.87	+ 0.4	50	43	+ 2	2	0	C	2	34	41	-	
Christiania Fjord (Færder) ...	29.87	43	NE	4	O	29.87	+ 0.4	40	39	+ 1	N	7	0	3	43	37	-	
Skagen (The Scaw) ...	29.80	42	E	3	O	29.78	- 0.2	40	38	- 1	NE	3	0	3	46	39	-	
Fanø ...	29.71	43	ESE	4	O	29.69	+ 0.1	42	41	- 2	ESE	4	C	*	48	39	-	
SWEDEN.																		
Sunburch Head ...	29.85	45	NE	2	B	29.88	+ 0.4	44	42	- 1	NE	2	0	3	47	40	-	
Stornoway ...	29.70	48	E	6	C	29.75	+ 0.6	45	44	0	E	6	60	5	52	41	-	
Wick ...	29.80	44	E	4	O	29.85	+ 0.6	45	44	+ 2	SE	4	C	5	48	41	0.20	
Nairn ...	29.74	46	E	2	C	29.78	+ 0.6	43	41	- 1	E	2	C	1	50	40	0.01	
Aberdeen ...	29.76	43	ESE	5	ogdp	29.81	+ 0.7	43	41	+ 1	E	4	og	5	44	40	0.02	
SCOTLAND.																		
Leith ...	29.66	43	E	4	O	29.72	+ 0.6	43	42	- 1	E	4	C	*	46	40	-	
Shields ...	29.61	44	NE	3	O	29.68	+ 0.8	43	43	- 2	ESE	4	6	5	46	41	0.02	
Spurn Head ...	29.48	44	ESE	6	O	29.56	+ 1.1	44	43	0	ESE	5	6	5	46	42	-	
York ...	29.53	45	E	3	O	29.62	+ 1.0	44	43	- 2	ESE	3	0	*	50	42	-	
Loughborough ...	29.46	43	E	2	C	29.53	+ 0.8	44	43	- 1	NE	4	om	*	49	43	0.04	
IRELAND.																		
Ardsrossan ...	29.60	47	ESE	4	O	29.65	+ 0.6	45	42	- 1	NE	4	om	2	52	40	-	
Malin Head ...	29.54	48	E	5	6om	29.60	+ 0.5	45	43	0	ESE	5	ogt	2	49	42	0.04	
Mullaghmore ...	29.50	52	ESE	5	C	29.56	+ 0.5	45	44	+ 3	E	5	om	4	52	42	0.01	
Belmullet ...	29.48	53	ESE	3	BC	29.57	+ 0.9	46	45	+ 3	ESE	2	0	*	53	43	-	
Donaghadee ...	29.53	50	E	4	C	29.59	+ 0.4	45	44	+ 1	E	6	0	4	52	43	0.02	
ENGLAND.																		
Liverpool (Bidston) ...	29.47	46	ESE	5	O	29.55	+ 0.7	45	44	+ 2	ESE	4	0	4	49	43	0.12	
Holyhead ...	29.45	47	E	5	ogm	29.52	+ 0.6	46	45	+ 4	E	7	oggm	6	49	42	-	
Parsonstown ...	29.44	47	NE	1	T	29.52	+ 1.1	46	44	+ 3	NE	2	0	*	50	42	0.02	
Valencia ...	29.36	50	NE	4	ogm	29.46	+ 1.3	51	49	+ 6	NE	2	om	3	51	43	-	
Roche's Point ...	29.35	48	E	5	om	29.44	+ 1.2	51	49	+ 6	E	4	60	4	51	45	0.10	
WALLES.																		
Pembroke (St. Ann's Hd.) ...	29.35	51	E	3	BC	29.41	+ 1.2	51	49	+ 4	NE	2	og	2	52	45	-	
Scilly ...	29.22	50	E	5	C	29.31	+ 1.9	51	49	+ 1	NE	5	60	3	53	45	0.02	
Pravle Point ...	29.34	49	E	5	BC	29.33	+ 0.7	47	46	0	ESE	7	ogm	5	51	46	0.02	
Jersey (St. Aubin's) ...	29.32	54	SE	3	ogt	29.25	+ 0.4	51	49	+ 1	ESE	5	ogm	4	63	49	0.17	
Hurst Castle ...	29.38	50	E	2	BC	29.39	+ 0.7	49	49	0	ESE	2	orm	2	57	46	0.03	
FRANCE AND BELGIUM.																		
Dungeness ...	29.41	54	E	4	BC	29.37	+ 0.4	48	46	- 1	ESE	3	T	2	56	46	0.06	
London ...	29.40	56	ESE	2	BC	29.43	+ 0.7	48	46	- 3	NE	2	0	*	59	45	-	
Oxford ...	29.44	47	NE	1	BC	29.47	+ 1.0	46	45	+ 1	NE	2	0	*	56	42	0.09	
Cambridge ...	29.44	52	E	1	BC	29.49	+ 0.8	46	46	- 2	NE	1	0	*	63	38	-	
Yarmouth ...	29.45	47	E	4	B	29.48	+ 0.6	44	43	- 1	E	5	cf	5	49	41	-	
GERMANY.																		
Cuxhaven ...	29.62	44	E	5	B	29.61	+ 0.1	42	40	- 1	ESE	5	60	*	50	41	-	
Berlin ...	29.59	54	NE	3	C	29.50	- 1.0	47	47	+ 4	E	4	0	*	57	?	0.04	
Wiesbaden ...	*	*	*	*	*	29.38	- 1.5	45	44	- 9	Z	0	0	*	57	39	0.08	
Munich ...	29.35	52	E	2	BC	29.35	- 1.9	48	45	+ 1	NE	5	0	*	61	39	-	
The Helder ...	29.53	48	ESE	1	C	29.51	+ 0.2	44	43	0	ESE	3	6	3	52	43	-	
HOLLAND.																		
Brussels (3 a.m.) ...	*	*	*	*	*	29.42	- 0.3	49	46	- 4	ESE	3	C	*	66	44	-	
Cape Gris Nez ...	?	49	E	3	BC	?	?	47	45	- 2	E	3	0	2	59	?	-	
Paris ...	29.36	61	ESE	2	BC	29.30	- 1.1	50	48	0	ESE	2	0	*	70	48	0.24	
Brest ...	29.25	56	Z	0	BC	29.22	+ 0.5	49	48	- 3	ESE	1	0	2	64	46	-	
Lorient ...	29.25	56	SE	2	BC	29.23	+ 0.3	49	47	- 2	NE	1	0	2	59	46	-	
FRANCE AND BELGIUM.																		
Rochefort ...	29.31	57	SSW	3	O	29.26	- 0.9	49	49	- 1	E	1	6	?	64	41	-	
Belfort ...	29.42	48	NE	1	BC	29.33	- 1.9	53	44	+ 5	SSW	1	6	*	65	44	-	
Lyons ...	29.41	51	E	1	T	29.32	- 1.5	49	46	- 2	ESE	1	0	*	61	46	0.12	
Nice ...	29.50	51	ESE	7	T	29.36	- 2.6	48	48	0	SSW	4	T	3	55	46	1.42	
Perpignan ...	29.24	57	S	4	O	29.18	- 1.9	48	43	- 6	S	1	0	*	64	47	0.12	
Biarritz ...	29.17	66	WWS	3	BC	29.17	- 1.1	49	45	- 6	SW	3	0	2	72	46	0.12	
SPAIN.																		
Corunna ...	*	*	*	*	*	29.48	+ 1.0	51	49	0	WWS	4	C	?	55	48	0.79	
Lisbon ...	29.34	51	N	7	T													

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, 17th April.

1890.

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 forces 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:

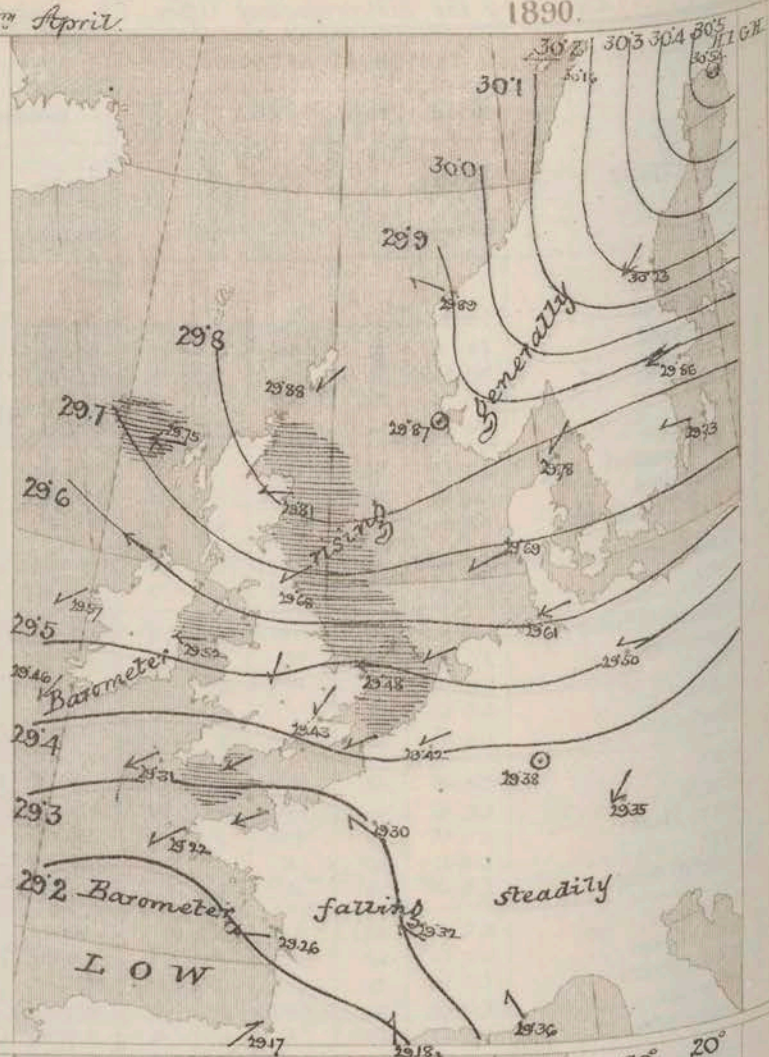
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of April.

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.849
Stornoway	29.821
Wick	29.853
Nairn	29.853
Aberdeen	29.862
Leith	29.865
Shields	29.870
York	29.877
Loughborough	29.878
Ardrossan	29.857
Donaghadee	29.853
Holyhead	29.851
Liverpool	29.864
Parsonstown	29.853
Valencia	29.835
Roche's Point	29.838
Pembroke	29.844
Silly	29.849
Jersey	29.867
Hurst Castle	29.867
Dover	29.866
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.876



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 29.9 in. to 30.5 in. over the northern parts of Scandinavia and Finland.
 Lowest, 29.2 in. and less, over the Bay of Biscay and southwest of France, and about 29.3 in. over the eastern parts of Austria.
 Gradient moderate in most places and favourable for W. winds in Spain, variable in France, but for E. winds elsewhere.
 Barometer still falling in the south, rising elsewhere.

TEMPERATURE

Highest, 51° at Lisbon and on our own extreme southwestern coast, 50° at Chateaufort and Paris, 49° on the west coast of France.
 Lowest, 19° at Hafslunda, 32° at Helsingfors, 36° at Stockholm, 40° at Gaarder and the Scars.
 At all our own stations it is considerably above 40°.

WIND

E. over the British Islands and North Sea; moderate or fresh in most places, strong at a few stations.
 In Spain and the south of France it is W. to S. in direction and of little force.

WEATHER

Clear and bright in Norway, cloudy or overcast, as a rule, in most other regions, with rain at several of the eastern and southern stations.
 In London the sky is overcast and the appearance miserable.
 Thunder occurred yesterday at Jersey and in several parts of our Midland counties.

SEA

Rather rough except over the Bay of Biscay (where it was smooth) and off the west coast of Ireland (where it was moderate).

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Due to the fresh fall of the barometer in the south some further increase in the force of the wind is probable on our south and east coasts with unsettled weather.

FORECASTS

For the 24 hours ending at NOON on 18th April 1890.

DISTRICTS.

FORECASTS.

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

Wind mainly E^z, moderate; cloudy local showers.

E^z and NE^z winds, moderate and fresh; cloudy, rain at times.

E^z and NE^z winds, moderate, strong on the coasts, rain at times, colder.

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.

Same as No 5.

E^z winds, changeable, some rain.

WARNINGS

NONE ISSUED.

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 ...	29.86	54	46	W.W.	2	bc	2	Holyhead ...	29.44	48	46	E	6	bc	5
Sumburgh Head ...	29.87	46	43	NE	2	c	3	Valencia ...	29.33	50	48	E.N.E.	6	om	3
Stornoway ...	29.69	51	50	E	5	c	4	Scilly ...	29.20	53	51	E	4	bc	3
Aberdeen ...	29.76	43	42	E	5	o.q.d.	5	Jersey ...	29.30	61	55	E	3	bc	1
Shields ...	29.61	46	45	NE	3	u	4	Dungeness ...	29.40	55	51	E	2	c	4
Ardrossan ...	29.59	51	48	E.N.E.	4	c	2	London ...	29.39	57	52	E.N.E.	2	c	4
Malin Head ...	29.55	48	45	E	5	o	2	Yarmouth ...	29.44	49	47	E	4	bc	2
Mullaghmore ...	29.49	50	46	E	5	c.m.	4	Rochefort ...	29.37	62	55	S	4		
Belmullet ...	29.50	49	47	E.N.E.	3	c	*								

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

Weather fine and bright over Northern Europe in many parts of Austria and Southeastern Europe, cloudy, more or less, or overcast elsewhere, with rain at some of the British and Irish stations and at Moscow. Slight rain later in many parts of the British Isles, Germany, and France, with thunder and lightning in several localities — rainfall heavy at Lisbon and Nice, comparatively slight elsewhere.

Temperature risen considerably over France, Germany and Austria, fallen over Northern Europe; varying from 50° to 61° at the Mediterranean stations, and slightly exceeding 50° over Southern Russia, France, Belgium and Western Germany; ranging between 42° and 50° over the British Isles, and below 30° over Northern Europe. Lowest values 9° at Archangel, 26° at Kuopio, and 27° at Haparanda.

Wind E³ over all the northern and northwestern parts of Europe, S³ to SW³ in the south, and very variable at the Italian, Austrian and Russian stations, not very strong anywhere. Increasing to a moderate gale from WSW at Lisbon later, no important change elsewhere.

Barometer highest, 29.9 ins. to 30.4 ins. and more, over the northern parts of Scandinavia, Finland and Russia, exceeding 29.7 ins. over Southeastern Europe, and 29.6 ins. over Western Algeria; lowest 29.2 ins. and less, over the Bay of Biscay, Brittany, and the Scilly Islands, and varying between 29.5 ins. and 29.6 ins. over Germany. Gradient moderate over the British Islands and Northern Europe, slight and variable elsewhere. Further fall of barometer in Spain and France later, but a rise over Scandinavia.

EXPLANATION OF 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).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for

Friday, 18th April,

1890.

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.	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 ...	30.51	23	W	0	b	30.55	+ 01	24	22	+ 5	W	0	b	*	32	10	0.00	
Hernösand ...	30.32	33	NE	4	b	30.36	+ 13	32	28	0	NE	4	b	*	37	28	0.00	
Stockholm ...	30.06	33	ESE	9	o	30.08	+ 22	34	31	- 2	NE	8	o	*	39	30	0.00	
Wibby ...	29.84	38	NE	6	o	29.86	+ 13	36	34	- 6	ESE	6	o	*	43	32	0.00	
Bodo ...	29.21	34	E	4	b	30.26	+ 10	36	33	+ 1	E	4	b	2	39	28	0.00	
CHRISTIANIA.																		
Christiansund ...	29.91	47	ESE	4	b	29.98	+ 09	45	40	- 1	ESE	4	b	2	55	43	0.00	
Skadesnaes ...	29.90	45	ESE	2	c	29.95	+ 08	44	36	- 6	E	2	c	3	54	39	0.00	
Christiania Fjord (Frøder) ...	29.95	35	NNE	8	r	29.99	+ 12	32	32	- 8	NNE	8	S	4	?	32	0.00	
Skagen (The Scaw) ...	29.81	40	NE	6	o	29.82	+ 04	39	37	- 1	NE	6	o	4	43	37	0.00	
Faro ...	29.68	39	ESE	6	b	29.65	- 04	42	41	0	ESE	6	o	*	48	37	0.00	
BRITISH ISLANDS.																		
Snamburgh Head ...	29.89	45	NE	1	o	29.94	+ 06	45	42	+ 1	W	0	o	1	46	41	0.00	
Stornoway ...	29.77	47	SE	6	o	29.88	+ 13	46	45	- 1	S	3	b	3	51	40	0.00	
Wick ...	29.88	45	SE	3	o	29.95	+ 10	47	45	+ 2	SE	2	bc	3	49	41	0.00	
Nairn ...	29.83	44	E	1	c	29.92	+ 14	42	40	- 1	ESE	1	c	1	50	32	0.00	
Aberdeen ...	29.86	44	E	4	ogdp	29.94	+ 13	42	41	- 1	E	1	ogp	4	46	40	0.00	
IRELAND.																		
Leith ...	29.78	43	E	4	o	29.90	+ 18	42	40	- 1	E	4	o	*	45	39	0.00	
Shields ...	29.73	42	NE	3	d	29.84	+ 16	41	40	- 2	NE	3	d	6	44	39	0.00	
Spurn Head ...	29.58	43	NNE	6	o	29.67	+ 11	42	41	- 2	NNE	7	o	6	44	40	0.00	
York ...	29.66	44	E	1	o	29.76	+ 14	42	40	- 2	ESE	3	o	*	45	39	0.00	
Loughborough ...	29.59	43	NE	4	o	29.69	+ 16	41	40	- 3	NNE	4	o	*	46	40	0.00	
FRANCE AND BELGIUM.																		
Ardrossan ...	29.73	45	NE	4	o	29.86	+ 21	43	39	- 2	ESE	4	om	2	47	40	0.00	
Malin Head ...	29.68	46	ESE	4	om	29.85	+ 25	42	40	- 3	ESE	4	o	2	48	42	0.00	
Mullaghmore ...	29.65	49	ESE	2	om	29.83	+ 27	44	42	- 1	ESE	4	c	2	49	41	0.00	
Belmullet ...	29.63	51	E	3	bc	29.82	+ 25	49	45	+ 3	E	2	b	*	53	42	0.00	
Donaghadee ...	29.67	48	ESE	4	b	29.84	+ 25	43	40	- 2	ESE	5	c	3	52	42	0.00	
NETHERLANDS.																		
Liverpool (Bidston) ...	29.62	45	ESE	4	o	29.77	+ 22	42	40	- 3	NE	3	o	3	50	41	0.00	
Holyhead ...	29.59	47	E	6	c	29.77	+ 25	44	41	- 2	ESE	5	og	5	53	42	0.00	
Parsonstown ...	29.59	54	NE	2	b	29.78	+ 26	45	43	- 1	W	0	o	*	55	44	0.00	
Valencia ...	29.61	49	E	2	gmrl	29.77	+ 31	47	46	- 4	E	1	bm	1	59	41	0.00	
Roche's Point ...	29.56	52	ESE	4	c	29.78	+ 34	47	45	- 4	E	4	c	4	56	43	0.00	
GERMANY.																		
Pembroke (St. Ann's Hd.) ...	29.51	52	NE	2	c	29.69	+ 28	45	44	- 6	NE	4	c	2	55	42	0.00	
Scilly ...	29.41	49	NE	4	r	29.63	+ 32	47	45	- 4	NE	4	o	3	52	45	0.00	
Prawle Point ...	29.39	49	NE	7	o	29.60	+ 29	43	43	- 4	NE	5	og	4	52	42	0.00	
Jersey (St. Aubin's) ...	29.30	54	ESE	6	o	29.53	+ 28	47	46	- 4	NE	4	om	3	55	46	0.00	
Hurst Castle ...	29.42	50	NE	5	om	29.56	+ 17	45	44	- 4	NE	4	c	2	53	44	0.00	
ITALY.																		
Dungeness ...	29.37	45	ESE	5	o	29.46	+ 09	45	44	- 3	NE	4	r	4	52	44	0.00	
London ...	29.47	47	NE	3	og	29.56	+ 13	43	42	- 5	NNE	2	ogt	*	55	42	0.00	
Oxford ...	29.55	43	NE	3	o	29.63	+ 16	41	40	- 5	NNE	2	od	*	47	40	0.00	
Cambridge ...	29.45	42	NE	3	o	29.61	+ 12	43	43	- 3	N	3	o	*	48	40	0.00	
Yarmouth ...	29.51	44	ESE	6	ogu	29.55	+ 07	43	42	- 1	NE	7	ogu	6	44	41	0.00	
SPAIN.																		
Cuxhaven ...	29.57	44	ESE	7	o	29.50	- 11	45	44	- 3	ESE	6	o	*	49	43	0.00	
Berlin ...	29.43	60	NE	4	c	29.42	- 08	52	53	+ 11	E	4	c	*	66	32	0.00	
Wiesbaden ...	*	*	*	*	*	29.38	00	50	48	+ 5	SW	3	o	*	70	?	0.00	
Munich ...	29.26	58	E	3	o	29.48	+ 13	48	44	0	SW	5	bc	*	66	45	0.00	
The Helder ...	29.48	46	NE	5	o	29.47	- 04	45	44	+ 1	NE	6	f	4	46	43	0.00	
PORTUGAL.																		
Brussels (9 a.m.) ...	*	*	*	*	*	29.39	- 03	45	45	- 4	NE	1	r	*	55	45	0.00	
Cape Gris Nez ...	?	46	ESE	5	b	?	?	45	44	- 2	ESE	6	f	6	55	43	0.00	
Paris ...	29.33	53	NE	2	o	29.43	+ 13	50	48	0	NNE	2	o	*	61	42	0.00	
Brest ...	29.33	53	NE	1	o	29.54	+ 32	47	45	- 2	ESE	3	o	3	63	45	0.00	
Lorient ...	29.31	52	NNE	3	o	29.42	+ 19	49	49	0	E	3	f	3	55	46	0.00	
AFRICA.																		
Rochefort ...	29.40	54	NW	3	b	29.58	+ 32	52	51	+ 3	W	4	bc	?	63	45	0.00	
Belfort ...	29.27	48	W	1	o	29.43	+ 10	57	48	+ 4	NW	1	r	*	67	42	0.00	
Lyons ...	29.36	46	S	2	o	29.54	+ 22	45	44	- 4	SSW	2	r	*	61	42	0.00	
Nice ...	29.47	43	SW	3	bc	29.55	+ 19	43	42	- 5	E	4	r	4	57	39	0.00	
Perpignan ...	29.31	49	N	2	r	29.60	+ 42	55	50	+ 7	NNE	2	o	*	66	47	0.00	
Biarritz ...	29.37	54	NNE	6	o	29.63	+ 46	54	48	+ 5	NNE	4	o	2	57	46	0.00	
EUROPE.																		
Corunna ...	*	*	*	*	*	29.87	+ 39	53	50	+ 2	W	4	c	4	59	?	0.00	
Lisbon ...	29.74	54	NNE	4	b	29.87	+ 39	53	50	+ 2	W	4	c	4	59	?	0.00	

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 *Friday, 18th April.* 1890.

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:

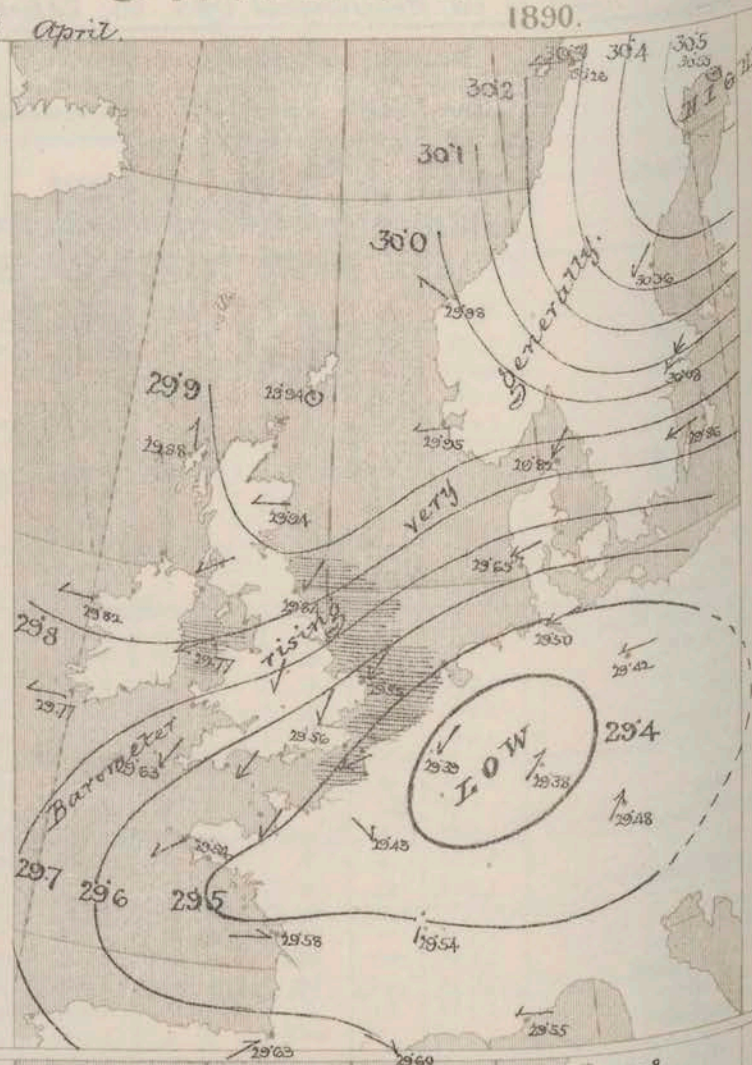
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of April.

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.849
Stornoway	29.821
Wick	29.853
Nairn	29.853
Aberdeen	29.862
Leith	29.865
Shields	29.870
York	29.877
Loughborough	29.878
Ardrossan	29.857
Donaghadee	29.853
Holyhead	29.851
Liverpool	29.864
Parsonstown	29.853
Valencia	29.835
Roche's Point	29.838
Pembroke	29.844
Sally	29.849
Jersey	29.867
Hurst Castle	29.867
Dover	29.866
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.876



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.

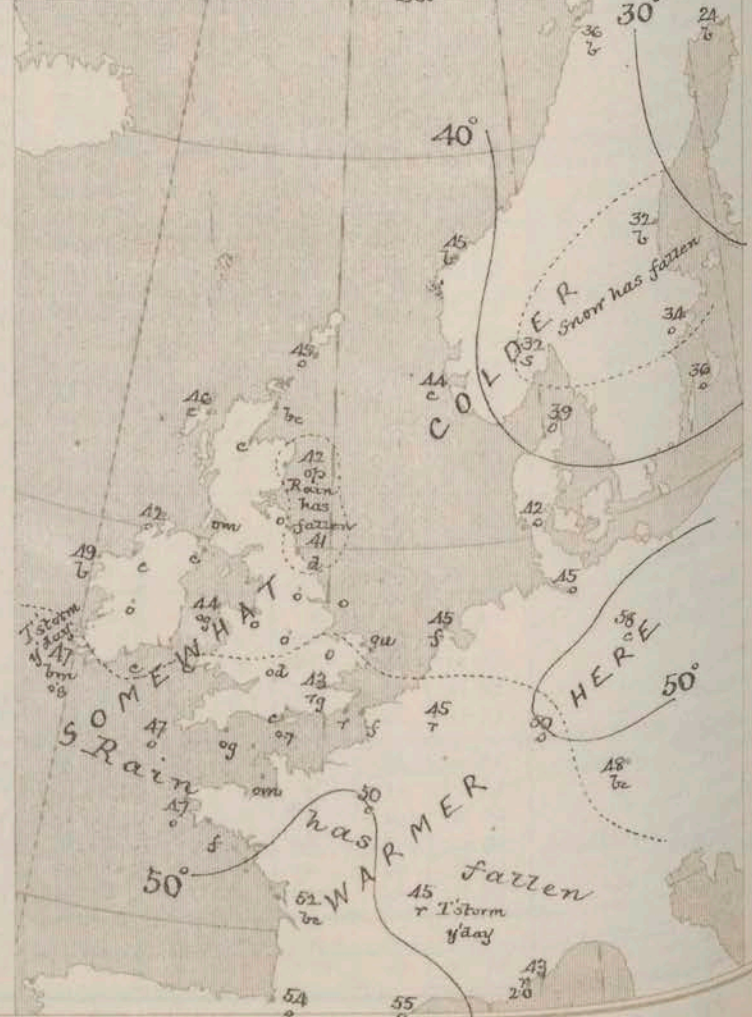
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of April.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	46.3	37.3	41.9	40.3	2.16
Stornoway	49.3	37.5	44.1	42.3	2.51
Wick	49.2	37.4	43.2	41.2	1.56
Nairn	51.5	37.9	43.1	40.6	1.23
Aberdeen	49.6	38.5	43.4	40.9	2.23
Leith	52.6	38.2	44.2	42.1	1.65
Shields	49.2	39.2	43.8	41.7	1.94
York	54.1	37.8	44.1	42.0	1.89
Loughborough	55.7	38.3	45.1	42.6	1.77
Ardrossan	52.1	39.9	44.6	42.2	2.23
Donaghadee	51.3	40.1	44.8	43.2	2.02
Holyhead	51.9	42.4	46.2	44.2	1.80
Liverpool	53.0	40.7	45.5	42.6	1.56
Parsonstown	55.0	38.3	45.7	43.0	2.15
Valencia	54.3	42.9	48.4	46.9	4.01
Roche's Point	54.2	42.4	47.0	44.9	3.43
Pembroke	50.8	42.1	45.0	43.6	2.10
Sally	52.5	45.0	49.0	47.1	2.45
Jersey	54.6	45.6	49.0	46.4	2.04
Hurst Castle	52.3	41.4	45.9	44.6	1.87
Dover	51.5	42.4	47.1	44.5	1.81
LONDON	56.7	40.0	48.5	43.8	1.86
Oxford	55.1	39.3	45.0	42.7	1.79
Cambridge	56.2	37.7	45.5	43.3	1.75
Yarmouth	40.5	40.4	43.1	43.4	1.80

NOTE.—The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 20 years 1866-85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.5 in. and upwards, in the north of Sweden; 29.5 in. and upwards in the south of Portugal.
 Lowest, 29.4 in. and less, in a large but somewhat shallow depression lying over the Netherlands and Western Germany.
 Gradient rather steep over Scandinavia, Denmark, and the North Sea, but slight elsewhere.
 Barometer rising generally, but falling slightly in Denmark and North Germany.

TEMPERATURE

Highest, 58° at Berlin, 55° at Puygnyon, 54° at Bismarck, 53° at Lubeck, 52° at Rostock, and 50° at Wiesbaden and Paris.
 Lowest, 24° at Haparanda, 32° at Haparanda and Laxer, 34° at Stockholm, and 36° at Bodo and Murky.
 The maxima registered yesterday were below 50° in all the more northern and eastern parts of the United Kingdom. At the German stations, however, the thermometer exceeded 65°.

WIND

NE^{ly} over Sweden, Denmark, the North Sea, the Netherlands, and the greater part of Ireland and England, where in force on the eastern shores of the North Sea and blowing a gale at Stockholm and Laxer.
 Light or moderate from the SE^{ly} in the north of Scotland.
 W^{ly} in the south of France; SW^{ly} in the west and south of Germany.

WEATHER

Fine over the northern parts of Scandinavia and Scotland as well as at some of the Irish and German stations.
 B. elsewhere, with passing showers on our northeast coasts, and steady rain in the southeast of England and south of France.
 Rain fell yesterday at all our southern and the French stations, the largest amount, 2.0 in. at Nice, and 0.8 inch at Valencia. A thunderstorm occurred yesterday at Valencia and also at Agos.

SEA

Rough off the east of England and rather rough at Holyhead, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The shallow depression over Germany and the Netherlands is apparently still moving eastwards, but the existence of two high-pressure areas — one over Northern and the other over Southern Europe renders any general improvement in the weather unlikely at present.

FORECASTS

For the 24 hours ending at NOON on 19th April 1890.

DISTRICTS.

FORECASTS.

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

E^{ly} winds, light or moderate; cloudy, some showers.
 NE^{ly} winds, strong; drizzle, rain at times.
 NE^{ly} and N^{ly} winds, moderate; drizzle, rain at times.

DISTRICTS.

FORECASTS

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

NE^{ly} winds, moderate or fresh; drizzle, rain locally.
 NE^{ly} to N^{ly} winds, fresh; fair generally.
 NE^{ly} winds, moderate or fresh; fair generally.

WARNINGS

NONE ISSUED.

Note.—The South Cone, point downwards (∇), means that gales, or strong winds, are probable at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.
 The North Cone, point upwards (\blacktriangledup), 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 ...	29.86	53	46	NW	1	c	2	Holyhead ...	29.55	52	49	E	6	c g m	2		
Sumburgh Head	29.89	46	44	N	1	o	3	Valencia ...	29.50	57	53	N	2	p m	3		
Stornoway ...	29.76	51	50	SE	6	c	5	Scilly ...	29.37	52	50	NE	4	o	4		
Aberdeen ...	29.83	43	42	E	4	o g p d	5	Jersey ...	29.26	53	51	NE	5	c	3		
Shields ...	29.71	44	43	NE	3	o	5	Dungeness ...	29.36	49	47	E NE	4	o	*		
Ardrossan ...	29.69	46	43	NE	4	o	2	London ...	29.45	51	49	E NE	3	o	5		
Malin Head ...	29.65	46	45	E	5	o	2	Yarmouth ...	29.49	44	43	E NE	5	c f	?		
Mullaghmore ...	29.62	48	46	ESE	5	o g m	2	Rochefort ...	29.32	59	55	NW	3	b			
Belmullet ...	29.61	50	48	E NE	2	o	*										

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

Weather in morning fine and bright over Northern and Southeastern Europe, as well as in Algeria, very cloudy and unsettled elsewhere, with much rain in the south of France, and smaller quantities over the Northern Departments, in the south of our Islands, in some parts of Germany and at Stockholm. Rainfall during day exceeding 2 ins. at Nice, and amounting to nearly three quarters of an inch at Saint-Cuthe and Rock Point. Thunder and lightning in southwest of Ireland.

Temperature varying from 50° to 61° over the greater part of the Mediterranean and exceeding 50° on the coasts of the Spanish Peninsula, as well as in Southern Russia, on the extreme southwest coast of our Islands and at Paris. Much lower over Northern Europe, lowest readings of all being 11° at Archangel, 16° at Uleaborg, 20° at Kuopio, 27° at St. Petersburg, 30° at Moscow, and 32° at Helsingfors. Exceeding 60° in some parts of France later, but falling short of that over the British Isles, and short of 50° over the Northern half of the Kingdom.

Wind E^{ly} to NE^{ly} over all the northern and northwestern parts of Europe, strong to a gale over the Gulf of Finland, and strong on several parts of our own and the Swedish coasts. SW^{ly} and W^{ly} over the southern parts of Spain and the Mediterranean, SE^{ly} over the Adriatic and north of Italy; very variable over inland parts of Europe, and light in force. NE^{ly} wind increasing in force on east and southeast coasts of England later, but SE^{ly} wind appearing at our northwestern stations.

Barometer risen considerably over Finland, fallen over Spain, France, Southern and Central Europe. Highest 30.0 ins. to 30.5 ins. over Northern Europe, and 29.6 ins. to 29.7 ins. over Algeria; lowest 29.2 ins. and less, in depressions over Bay of Biscay and southwest of France, 29.3 ins. to 29.6 ins. in shallow secondary systems over Germany, the south of France and Central Europe. Main depression moving eastward later, and barometer rising a little over British Isles, Spain, and France.

EXPLANATION OF 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).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for *Saturday, 19th April, 1890.*
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

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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.)	
SCANDINAVIA.																	
Haparanda ...	30.39	25	Z	0	b	30.37	- .18	26	25	+ 2	Z	0	b	*	37	12	-
Hernösand ...	30.30	31	NE	2	b	30.28	- .08	32	28	0	NNE	2	b	*	39	28	-
Stockholm ...	30.09	35	NE	6	o	30.03	- .05	36	33	+ 2	NE	6	c	*	37	27	-
Wisby ...	29.92	37	NNE	6	c	29.85	- .01	37	36	+ 1	E	6	r	*	39	34	0.16
Bodo ...	30.18	35	E	2	bc	30.32	+ .06	37	35	+ 1	E	4	b	2	43	27	-
CHRISTIANIA.																	
Skudesnaes ...	30.03	46	ESE	1	b	30.10	+ .12	41	36	- 4	SE	3	b	2	54	39	-
Christiania Fjord	30.04	41	Z	0	o	30.08	+ .13	41	33	- 3	ENE	2	o	3	46	37	-
(Færder)	30.06	36	ENE	8	bc	30.05	+ .06	33	30	+ 1	N	8	c	3	36	32	-
Skagen (The Scaw)	29.91	33	ENE	1	s	29.88	+ .06	33	33	- 6	ENE	7	s	6	39	?	0.32
Fanø ...	29.73	40	ENE	6	o	29.73	+ .08	38	37	- 4	NE	5	c	*	45	37	-
SCOTLAND.																	
Sumburgh Head	29.98	43	Z	0	c	30.06	+ .12	45	40	0	SE	1	b	2	49	41	-
Stornoway ...	29.94	48	Z	0	b	29.97	+ .09	47	46	+ 1	SE	4	bc	4	51	40	-
Wick ...	29.98	49	E	2	b	30.05	+ .10	47	44	0	E	2	bc	1	53	40	-
Nairn ...	29.96	47	Z	0	b	30.02	+ .10	39	38	- 3	Z	0	c	1	49	28	-
Aberdeen ...	30.00	44	E	2	bc	30.05	+ .11	41	38	- 1	SSE	2	op	4	48	40	0.04
ENGLAND.																	
Leith ...	29.96	44	E	3	b	30.04	+ .14	43	40	+ 1	ESE	1	c	*	48	36	-
Shields ...	29.91	42	NE	3	o	29.99	+ .15	39	37	- 2	NE	3	o	6	43	38	0.01
Spurn Head ...	29.80	42	NNE	1	o	29.90	+ .23	43	40	+ 1	NNE	5	c	5	46	39	-
York ...	29.86	43	E	3	o	29.96	+ .20	42	39	0	NE	3	c	*	44	37	-
Loughborough	29.81	43	NNE	5	o	29.93	+ .24	40	38	- 1	NE	2	odp	*	47	38	0.01
IRELAND.																	
Ardrassan ...	29.92	46	ENE	3	om	30.01	+ .15	42	38	- 1	ENE	3	om	2	47	39	-
Malin Head ...	29.90	46	SE	3	o	29.93	+ .08	42	39	0	SE	4	o	2	46	40	-
Mullaghmore ...	29.89	47	E	4	cm	29.92	+ .09	44	40	0	SE	5	cm	2	48	41	-
Belmullet ...	29.86	52	SW	1	o	29.87	+ .05	46	43	- 3	SSE	2	c	*	55	40	-
Donaghadee ...	29.90	46	SSE	2	bc	29.99	+ .15	42	41	- 1	ESE	3	o	2	50	41	-
BRITISH ISLANDS.																	
Liverpool (Bidston)	29.86	44	NE	4	o	29.98	+ .21	41	38	- 1	ENE	2	o	3	47	39	-
Holyhead ...	29.83	45	ENE	5	b	29.96	+ .19	39	39	- 1	E	4	bc	4	47	40	-
Parsonstown ...	29.88	47	NE	1	o	29.93	+ .15	36	35	- 9	Z	0	c	*	49	31	-
Valencia ...	29.85	53	W	1	om	29.88	+ .11	49	45	+ 2	SE	5	cm	5	55	46	-
Roche's Point...	29.86	48	ESE	3	o	29.92	+ .14	44	42	- 3	ENE	2	om	3	50	38	-
EUROPE.																	
Pembroke (St. Ann's Hd.)	29.79	50	NE	2	c	29.93	+ .24	43	42	- 2	ENE	2	b	1	51	38	-
Scilly ...	29.73	48	NNE	4	c	29.87	+ .24	48	46	+ 1	ENE	1	m	2	49	45	-
Prawle Point ...	29.75	46	NNE	4	o	29.91	+ .31	41	40	- 2	NNE	3	og	1	44	40	0.05
Jersey (St. Aubin's)	29.67	45	NNE	3	omqr	29.86	+ .33	45	44	- 2	NNE	4	oppr	3	49	44	0.29
Hurst Castle ...	29.68	45	NE	5	†	29.88	+ .32	43	43	- 2	NE	4	c	2	50	41	0.36
FRANCE.																	
Dungeness ...	29.56	45	NE	7	r	29.76	+ .30	43	42	- 2	NE	6	og	4	45	42	0.38
London ...	29.69	44	NE	3	op	29.85	+ .29	42	40	- 1	NNE	2	op	*	47	40	0.06
Oxford ...	29.81	41	NE	2	o	29.91	+ .21	40	39	- 1	NNE	3	og	*	45	39	0.01
Cambridge ...	29.73	43	N	3	o	29.90	+ .29	42	40	- 1	N	2	o	*	47	38	-
Yarmouth ...	29.67	43	NE	6	og	29.81	+ .26	42	40	- 1	NE	5	cq	5	44	40	-
GERMANY.																	
Cuxhaven ...	29.55	41	NE	6	o	29.63	+ .13	41	41	- 4	NE	5	r	*	45	39	0.12
Berlin ...	29.48	57	W	3	o	29.60	+ .18	52	51	- 6	SW	3	r	*	65	50	0.51
Wiesbaden ...	*	*	*	*	*	29.66	+ .28	50	48	0	Z	0	o	*	59	46	-
Munich ...	*	*	*	*	*	29.75	+ .27	46	43	- 2	SW	4	o	*	59	41	0.04
The Helder ...	29.59	50	SE	1	o	29.73	+ .26	42	41	- 3	NE	3	o	3	46	41	-
NETHERLANDS.																	
Brussels (9 a.m.)	?	*	*	*	*	29.69	+ .30	44	44	- 1	NNE	2	o	*	48	43	0.43
Cape Gris Nez	*	44	NE	4	r	?	?	42	41	- 3	NE	6	g	6	46	41	0.67
Paris ...	29.55	46	W	2	o	29.68	+ .25	45	45	- 5	NNE	3	og	*	?	45	0.24
Brest ...	29.71	49	ENE	2	o	29.86	+ .32	48	47	+ 1	ENE	1	o	2	?	45	-
Lorient ...	29.65	51	NNE	4	o	29.83	+ .41	47	46	- 2	NE	3	o	2	52	45	-
FRANCE AND BELGIUM.																	
Rochefort ...	29.68	35	SW	4	o	29.84	+ .26	50	47	- 2	NW	4	o	?	61	43	-
Belfort ...	29.60	50	W	1	r	29.70	+ .27	54	47	- 3	W	1	o	*	64	45	0.87
Lyons ...	29.65	48	ESE	1	r	29.76	+ .22	49	46	+ 4	J	3	c	*	50	?	0.55
Nice ...	29.67	48	E	4	o	29.77	+ .22	50	48	+ 7	E	2	bc	2	59	43	0.08
Perpignan ...	29.70	57	SW	1	o	29.83	+ .23	52	51	- 3	ESE	2	bc	*	66	45	0.51
Biarritz ...	29.74	58	W	4	o	29.86	+ .23	52	50	- 2	W	5	o	3	59	50	0.16
SPAIN.																	
Corunna ...	*	*	*	*	*	30.04	+ .17	54	52	+ 1	NNE	1	o	5	59	52	-
Lisbon ...	29.97	54	NW	4	c												

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, 19th April.

1890.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

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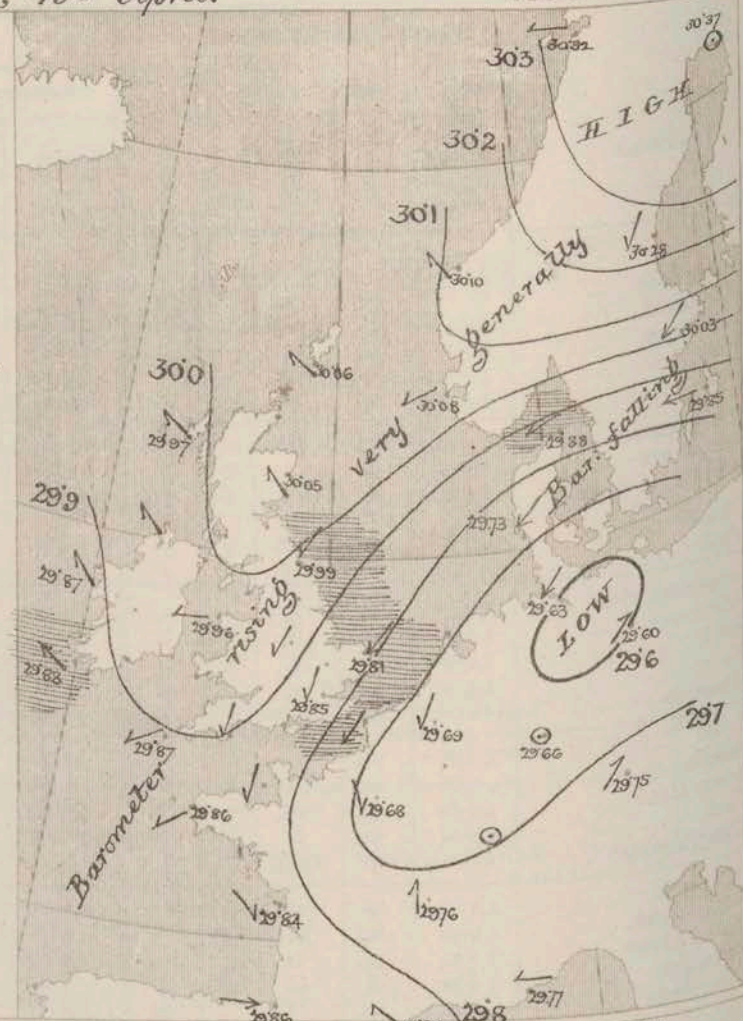
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MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of April.

During the 15 Years: 1871—1885.

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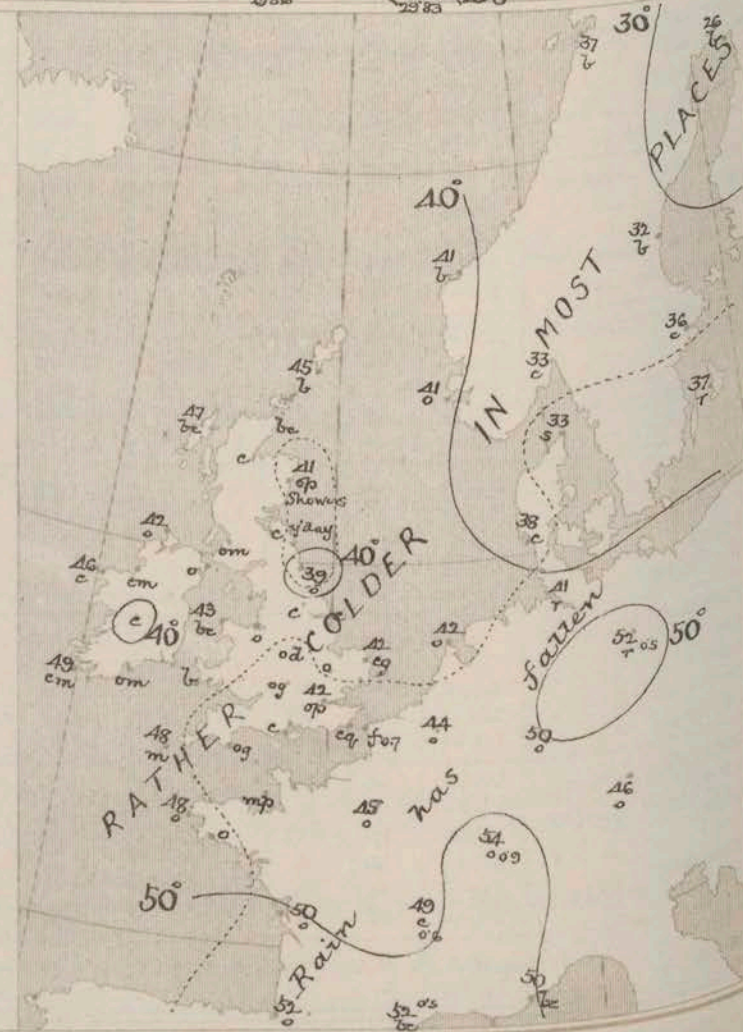
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(For the month of April.)

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			Dry.	Wet.	
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LONDON	50.7	40.0	46.8	43.8	1.86
Oxford	55.1	39.3	45.0	42.7	1.79
Cambridge	56.2	37.7	45.5	43.3	1.76
Yarmouth	49.5	40.4	45.1	43.4	1.80

NOTE—The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 20 years 1866-85.



GENERAL SITUATION AT 8 A.M.

PRESSURE	<p>Highest, 30.3 ins. and upwards, in the north of Sweden; 30.0 ins. and upwards, in the south of Portugal.</p> <p>Lowest, 29.6 ins. and less, in a depression lying over North Germany.</p> <p>Gradient moderate over Denmark, the North Sea and the south of Scandinavia, but slight elsewhere.</p> <p>Barometer rising at all but the Scandinavian and Danish stations.</p>
TEMPERATURE	<p>Highest, 54° at Belfast, 52° at Berlin, Biarritz, Brixen and Lisbon, 50° at Newcastle, Rochfort and Nice, and 49° at Valencia and Lyons.</p> <p>Lowest, 26° at Haparanda, 32° at Helsingfors, 33° at Vaasa and Skagen, 36° at Stockholm and Rensselaers, and 37° at Rode and Nisby.</p> <p>Frost occurred last night over the central parts of Ireland and Scotland.</p>
WIND	<p>Fresh or strong from the N.E. over Denmark, the south of Scandinavia, the eastern and southern shores of the North Sea and the southeast coast of England; light or moderate from the same quarter in the rest of England.</p> <p>SE. in Scotland and the east of Ireland; fresh in force at Valencia.</p> <p>Moderate from the W. in the west of France, and from the SW. at Berlin and Munich.</p>
WEATHER	<p>Fine over the northern parts of Scandinavia and Scotland, as well as in the south of France, fair in the west and north of our islands generally.</p> <p>Cloud elsewhere, with local showers in the east and south of England, steady rain in North Germany and snow at Skagen.</p> <p>Rain fell yesterday at our southern, eastern, and many of the Continental stations; thunderstorms were experienced at Dover and Folkestone, and thunder was heard in some of the southern suburbs of London.</p>
SEA	<p>Rough at the Scaw, and rather rough on the east and southeast coasts of England, as well as at Valencia and Lisbon.</p>

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

As the depression over Germany becomes shallower the weather over England will probably exhibit a gradual improvement. Conditions are, however, not yet settled, and local showers are still probable in our eastern and southern districts.

FORECASTS

For the 24 hours ending at NOON on 20th April 1890.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS
0 SCOTLAND NORTH	E ^{ly} and SE ^{ly} winds, light; fair generally.	6 SCOTLAND WEST	E ^{ly} winds, light; fair generally.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.	Same as N°5	8 ENGLAND S.W.	
3 ENGLAND EAST		9 IRELAND NORTH	E ^{ly} and SE ^{ly} winds, moderate or fresh; fair generally.
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH	NE ^{ly} and N ^{ly} winds, moderate; weather becoming fair and somewhat milder, but local showers still probable.		
		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 ...	29.98	46	39	E	4	C	3		Holyhead ...	29.82	46	ENE	5	C	5
Sumburgh Head ...	29.96	44	42	E	0	C	1		Valencia ...	29.83	55	WNW	2	om	3
Stornoway ...	29.93	51	48	S	2	b	2		Scilly ...	29.71	47	ENE	4	0	8
Aberdeen ...	29.97	47	43	ENE	1	b	4		Jersey ...	29.62	49	N	3	5	5
Shields ...	29.89	42	40	NE	3	0	6		Dungeness ...	29.51	45	NE	7	fg	8
Ardrossan ...	29.90	47	42	ENE	4	0	2		London ...	29.63	47	NE	3	fg	6
Malin Head ...	29.88	45	42	ESE	3	0	1		Yarmouth ...	29.61	44	NE	6	fg	6
Mullaghmore ...	29.87	47	43	E	4	om	2		Rocheport ...	29.64	59	SW	5	0	9
Belmullet ...	29.84	53	48	E	2	bc	*								

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

Weather fine and bright over the southern half of the Mediterranean, Southeastern, and Northern Europe only, dull and unsettled elsewhere; still very rainy in the south of France and north of Italy, showery at some of our own and the French stations and at Brussels, foggy at the Helder, Cape Gris Nez and Orient. Considerable rain later in the south of France, on shores of the English Channel and at Marseilles, thunder in some places, snow in the north of Russia.

Temperature risen over Central Europe, fallen over our Islands and neighbourhood. Morning readings exceeding 60° on eastern, southern and western shores of the Mediterranean and exceeding 50° over Southeastern, southeastern, and Central Europe as a whole; below 50° in our Islands, below 30° in the north of Russia, and as low as 9° at Archangel, 22° at Kiofio, 24° at Kapananda, 31° at St. Petersburg, and 32° at Herisand, Helsinki, and Moscow. Rising to between 60° and 66° over France later and to 68° at Berlin, but continuing below 50° over the greater part of our Islands all day.

Wind E² to NE² over the northern and northwestern parts of Europe, moderate to a gale in force; extremely variable elsewhere, but chiefly over Germany and of little strength. Very little change in the north and northwest later, but a somewhat decided W to SW current setting in over Spanish Peninsula and southwest of France later.

Barometer rising in north and northwest, falling over Central Europe. Morning readings highest, 30.0 ins. to nearly 30.7 ins. over northern and northeastern Europe, and 29.8 ins. to 29.9 ins. over Algeria. Lowest 29.4 ins. and less, in an elongated depression over Belgium and North Germany, and 29.5 ins. and less, in a small shallow system near C. Sicily. Gradients slight over southern and Central districts rather steep over most northern and northwestern countries. Larger depression moving eastwards later, and barometer rising slowly over Western Europe.

EXPLANATION OF 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).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Sunday 20th April 1890.
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 4.)	SHADE TEMP.			
	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.	Amount of Rainfall.	
SCANDINAVIA.																		
Haparanda ...	30.32	29	Z	0	b	30.38	+ .01	29	28	+ 3	N	2	b	*	41	14	—	
Hernösand ...	30.31	34	Z	0	b	30.34	+ .06	36	31	+ 4	NE	2	b	*	37	25	—	
Stockholm ...	30.08	36	NE	4	b	30.14	+ .11	34	32	+ 2	ESE	4	0	*	41	27	—	
Wisby ...	29.92	37	E	6	r	29.96	+ .11	38	37	+ 1	E	6	0	*	41	34	0.35	
Bodö ...	30.24	37	E	2	b	30.29	+ .07	39	37	+ 2	E	2	b	1	41	30	—	
CHRISTIANIA.																		
Christiansund	30.12	44	ESE	1	b	30.18	+ .08	42	36	+ 1	ESE	3	b	2	48	34	—	
Skudesnaes ...	30.11	39	ESE	6	0	30.12	+ .04	42	35	+ 1	NE	2	0	2	42	36	—	
Christiania Fjord (Færd)	30.05	42	NE	5	0	30.12	+ .07	37	33	+ 4	NNE	6	0	2	42	33	—	
Skagen (The Scaw)	29.91	35	ESE	7	r	29.97	+ .09	36	35	+ 3	E	6	0	6	36	33	1.38	
Fanø ...	29.80	39	NE	2	r	29.84	+ .11	39	38	+ 1	NE	2	0	*	41	36	0.16	
SCOTLAND.																		
Sumburgh Head	30.08	45	Z	0	0	30.06	— .00	43	40	— 2	SSE	2	c	3	48	34	—	
Stornoway ...	29.97	48	S	2	0	29.98	— .04	46	44	— 1	S	4	b	4	52	42	—	
Wick ...	30.00	42	E	3	c	30.05	— .00	44	41	— 3	SE	3	b	2	50	37	—	
Nairn ...	30.00	48	W	2	c	30.02	— .00	45	40	+ 6	ESE	1	b	1	50	29	—	
Aberdeen ...	30.08	44	SE	1	b	30.09	+ .04	40	36	— 1	SSE	1	c	3	46	32	—	
ENGLAND.																		
Leith ...	30.05	43	E	2	c	30.08	+ .04	47	41	+ 4	Z	0	b	*	47	33	—	
Shields ...	30.04	43	E	2	0	30.07	+ .08	40	38	+ 1	WSW	1	c	2	44	33	0.04	
Spurn Head ...	30.00	41	N	4	0	30.10	+ .20	40	38	— 3	NW	4	c	4	46	36	0.04	
York ...	30.03	44	NE	1	0	30.12	+ .16	42	37	— 0	N	1	c	*	47	35	—	
Loughborough	30.00	43	NNE	2	0	30.14	+ .21	39	37	— 1	Z	0	0	*	46	34	—	
IRELAND.																		
Ardrossan ...	30.03	45	ESE	3	0	30.06	+ .05	42	38	— 0	SE	3	om	2	48	39	—	
Malin Head ...	29.99	44	SSE	4	om	29.89	— .04	46	45	+ 4	SSE	5	om	2	46	40	—	
Mullaghmore ...	29.91	50	ESE	5	om	29.91	— .01	51	46	+ 7	SSE	5	og	3	51	43	—	
Belmullet ...	29.88	50	SSW	3	0	29.86	— .01	50	49	+ 4	SSW	6	0	*	54	46	0.04	
Donaghadee ...	30.02	45	S	3	0	30.04	+ .05	45	44	+ 3	S	3	m	2	46	42	—	
WALLES.																		
Liverpool (Bidston)	30.03	44	E	2	0	30.10	+ .12	41	39	— 0	ESE	3	0	3	46	39	—	
Holyhead ...	30.01	45	Z	0	ogm	30.07	+ .11	45	44	+ 2	SSW	2	omg	2	48	42	0.01	
Parsonstown ...	29.94	48	SE	1	0	29.98	+ .05	50	47	+ 14	SE	1	c	*	54	36	—	
Valencia ...	29.94	49	SE	4	0	29.98	+ .10	52	50	+ 3	S	6	cm	6	52	46	0.03	
Roche's Point...	30.09	50	E	2	0	30.05	+ .13	51	49	+ 4	S	3	c	3	53	43	—	
FRANCE.																		
Pembroke (St. Ann's Hd.)	30.02	45	SE	1	c	30.10	+ .17	47	47	+ 4	S	4	omd	3	48	42	—	
Scilly ...	29.99	48	ESE	1	m	30.10	+ .23	53	51	+ 5	SW	3	c	2	53	44	0.01	
Prawle Point ...	30.02	44	W	2	0	30.16	+ .25	46	45	+ 5	SSW	2	og	1	46	40	—	
Jersey (St. Aubin's)	29.99	46	NNW	2	0	30.20	+ .34	48	44	+ 3	Z	0	om	0	48	48	—	
Hurst Castle ...	29.99	46	NE	3	c	30.18	+ .30	45	44	+ 2	NNE	1	om	1	46	42	—	
NETHERLANDS.																		
Dungeness ...	29.90	45	NE	3	c	30.13	+ .37	41	38	— 2	NNW	3	c	1	46	38	0.01	
London ...	29.96	44	NNE	3	0	30.13	+ .28	41	38	— 1	SSW	1	0	*	45	39	—	
Oxford ...	30.03	42	N	2	0	30.16	+ .25	41	39	+ 1	Z	0	og	*	45	39	—	
Cambridge ...	30.00	43	N	1	0	30.15	+ .25	42	38	— 0	NW	1	0	*	47	36	—	
Yarmouth ...	29.91	40	NNE	4	c	30.07	+ .26	41	40	— 1	NW	3	cm	4	44	36	0.03	
GERMANY.																		
Cuxhaven ...	29.71	40	NNE	3	r	29.82	+ .19	43	42	+ 2	WNW	3	b	*	44	40	0.20	
Berlin ...	29.73	55	SW	4	b	29.93	+ .33	47	45	— 5	W	4	0	*	57	45	0.08	
Wiesbaden ...	*	*	*	*	*	30.01	+ .35	45	42	— 5	NNW	4	0	*	57	39	—	
Munich ...	29.86	49	SW	2	c	30.05	+ .30	47	45	+ 1	SW	4	r	*	55	41	0.04	
The Helder ...	?	40	?	2	c	29.99	+ .26	42	40	— 0	NW	2	c	3	43	39	—	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.)	*	*	*	*	*	30.09	+ .40	41	39	— 2	W	3	c	*	45	39	0.04	
Cape Gris Nez	?	42	NNE	5	r	?	?	40	36	— 2	WSW	4	0	4	45	34	—	
Paris ...	29.88	46	N	2	0	30.15	+ .47	41	39	— 4	N	2	0	*	?	39	0.04	
Brest ...	30.01	50	N	1	0	30.16	+ .30	51	49	+ 3	NW	1	0	2	63	45	—	
Lorient ...	29.99	49	N	3	0	30.19	+ .36	46	42	— 1	Z	0	0	2	50	45	—	
SPAIN.																		
Roche fort	30.01	51	NW	3	0	30.23	+ .39	48	45	— 2	NNW	4	0	2	61	39	—	
Belfort ...	29.91	48	W	1	r	30.06	+ .36	46	36	— 8	W	1	r	*	61	46	0.08	
Lyons ...	29.88	49	NNE	1	r	30.10	+ .34	47	44	— 2	NW	2	0	*	61	?	0.28	
Nice ...	29.85	54	SSW	4	b	30.00	+ .23	51	49	+ 1	SW	1	b	1	61	45	0.04	
Perpignan ...	29.88	57	W	2	0	30.11	+ .28	52	49	+ 0	NW	3	0	*	68	50	0.08	
Biarritz ...	30.02	53	NNW	4	r	30.18	+ .32	53	50	+ 1	NNE	3	0	2	59	50	0.35	
PORTUGAL.																		
Corunna ...	*	*	*	*	*	30.24	+ .34	59	55	+ 2	NW	1	b	2	61	45	—	
Lisbon ...	30.15	55	NW	2	0	30.21	+ .17	54	51	— 0	NNE	1	b	2	61	50	—	

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, 20th April,

1890.

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:

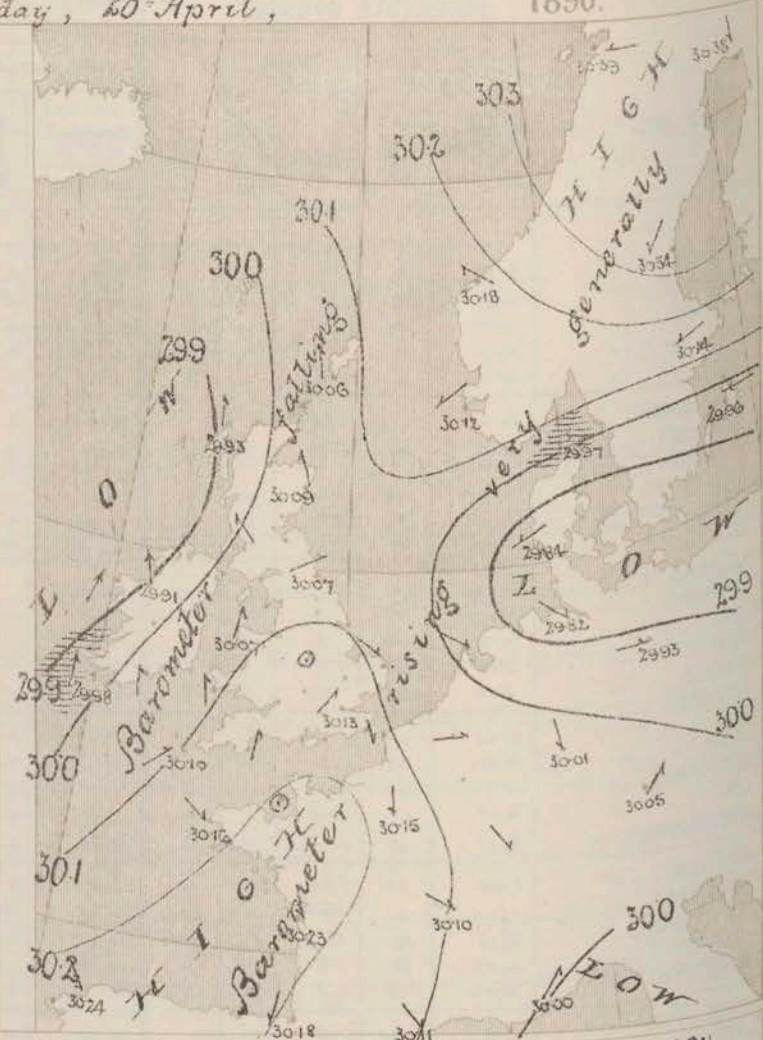
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of April.

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.849
Stornoway	29.821
Wick	29.853
Nairn	29.853
Aberdeen	29.862
Leith	29.865
Shields	29.870
York	29.877
Loughborough	29.878
Ardrassan	29.857
Donaghadee	29.853
Holyhead	29.851
Liverpool	29.864
Parsonstown	29.853
Valencia	29.835
Roche's Point	29.838
Pembroke	29.844
Sally	29.849
Jersey	29.807
Hurst Castle	29.867
Dover	29.866
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.876



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.3 ins. and upwards, over the north of Scandinavia; 30.2 ins. and upwards, over the west of France, the northern part of the Bay of Biscay, and the western part of the British Channel.
 Lowest, 29.2 ins. and less, in a depression lying over Denmark, North Germany, and the southern part of the Baltic, and also in another disturbance lying to the westward of our Islands.
 Gradients moderate or slight generally. Barometer falling a little in the extreme west and north of our Islands, but rising elsewhere, chiefly over England, France, and Germany.

TEMPERATURE

Highest, 55° at Lissieux, 54° at Lieben, 53° at Dublin and Rosetta, 52° at Valencia and Perpignan.
 Lowest, 39° at Hafensund, 34° at Stockholm, 36° at Helsingfors and Riga, 37° at Tams, and 36° at Nishy.
 Frost occurred last night over the central and eastern parts of Scotland.

WIND

S. or E. in the west and north of our Islands; strong in force in the west of Ireland.
 Light or moderate from the N. or N.W. over Spain, France and the east and southeast of England.
 W. in Germany; E. in Scandinavia and Denmark, strong at Nishy and the East.

WEATHER

Fine in the north and east of Scotland, as well as in the north of Scandinavia and the south of France.
 Cloudy or overcast elsewhere, with mist at several of the English and Irish stations and rain at Belfast and Munich.
 Showers fell yesterday in many parts of England and France and heavy rain and snow at the East.

SEA

Rough at Valencia and also at Riga, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 21st April 1890.

DISTRICTS.

FORECASTS.

DISTRICTS.

FORECASTS.

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

NONE ISSUED

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

NONE ISSUED.

WARNINGS

NONE ISSUED.

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 ...	30.07	42	37	SW	1	o	3		Holyhead ...	29.98	45	42	WSW	1	omg
Sumburgh Head ...	30.07	46	42	SE	1	b	2		Valencia ...	29.91	49	47	SSE	5	rm
Stornoway ...	29.98	52	48	S	2	b	3		Scilly ...	29.94	48	48	ESE	2	m
Aberdeen ...	30.07	44	41	SE	2	bc	4		Jersey ...	29.94	46	43	N	3	o
Shields ...	30.02	44	41	E	3	c	6		Dungeness ...	29.84	46	43	NE	4	c
Ardrossan ...	30.01	47	42	ENE	3	o	2		London ...	29.92	45	42	NNE	1	c
Malin Head ...	29.93	45	42	SSE	5	o	2		Yarmouth ...	29.87	43	41	NNE	5	c
Mullaghmore ...	29.92	50	44	SE	5	om	2		Rocheport ...	29.93	51	48	NNW	3	o
Belmullet ...	29.88	53	47	SSE	3	o	*								

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

Weather fine in the northern parts of Scotland, Scandinavia and Russia, as well as in Austria, Eastern Germany, the south of France, and the extreme south of Italy; fair in the west of our Islands. Dull elsewhere, with local showers in the south and southeast of England, steady rain at some of the Baltic and North German stations, and snow at Helsingfors and Skagen. Rain falling later in many parts of France and Central Europe and snow at Kuopio.

Temperature highest 63° at Brindisi, 62° at Malta, 59° at Legna and 58° at Warsaw, Barcelona, Cagliari, Nismes, and Lof, high 50° and upwards over Southern Europe generally, as well as in many parts of Poland, Austria, and Eastern Germany. Lowest, 20° at Archangel, 26° at Haparanda, 30° at Uleaborg, 32° at Hernösand and Kuopio, and 33° at Helsingfors and Vaarder; below 40° over the central parts of Ireland and Scotland. Daily maxima below 50° in many parts of our Islands, but thermometer rising above 60° over Southern Europe, and above 70° in the extreme south of Italy and some parts of Central Europe.

Winds fresh or strong from the NEnd over Denmark, the south of Scandinavia, the eastern and southern shores of the North Sea, and the southeast coast of England; light or moderate from the same quarter over the north of Scandinavia and the west of north of England. SE^{ly} in Scotland and the west of Ireland; NW^{ly} in Spain, W^{ly} in the west of France, SW^{ly} or S^{ly} over Italy, Algeria, and the greater part of Central Europe. Subsequently veering to the NWnd or Nnd in the west of France.

Barometer highest, 30.0 ins: and upwards, in an anticyclone lying over Northern Russia; 30.0 ins: and upwards, in another system lying over the western part of the Iberian Peninsula. Lowest, 29.6 ins: and less, in an elongated depression lying over North Germany. Barometer rising during day in all parts of Western and Central Europe, and German depression gradually filling up.

EXPLANATION OF 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; 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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DAILY WEATHER REPORT.

for *Monday, 21st April, 1890.*
 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 ...	30.50	31	Z	0	b	30.56	+18	35	30	+4	NE	2	b	*	43	16	-	
Hernösand ...	30.39	35	NE	6	b	30.39	+05	36	34	0	NE	4	b	*	45	?	-	
Stockholm ...	30.21	36	NE	4	r	30.21	+07	36	36	+2	ESE	4	r	*	37	30	0.08	
Wisby ...	30.02	38	E	4	0	30.06	+10	39	39	+1	N	4	0	*	41	36	-	
Bodö ...	30.37	34	ESE	4	b	30.33	+06	43	38	+4	ESE	4	b	2	46	32	-	
CHRISTIANIA.																		
Christiansund ...	?	46	ESE	3	b	30.15	-03	44	39	+2	ESE	3	b	1	52	39	-	
Skudesnaes ...	30.16	39	Z	0	0	30.16	+04	42	39	0	ESE	2	0	2	?	36	-	
Christiania Fjord (Færder)	30.15	37	NNE	5	r	30.18	+06	36	35	-1	NNE	5	r	3	37	34	0.67	
Skagen (The Seaw)	30.04	37	E	5	r	30.10	+13	39	39	+3	ESE	2	m	2	?	34	0.59	
Faßö ...	29.97	40	WSE	2	0	30.05	+21	41	41	+2	WSE	4	r	*	43	39	0.16	
SCOTLAND.																		
Sumburgh Head ...	30.04	43	SSE	3	b	29.92	-14	43	41	0	SSE	4	0	5	46	39	0.01	
Stornoway ...	29.87	47	S	5	r	29.53	-40	49	48	+3	S	6	r	5	49	43	0.05	
Wick ...	29.97	44	S	6	0	29.77	-22	47	45	+3	S	6	b	5	49	42	-	
Nairn ...	29.94	51	S	1	c	29.74	-23	52	46	+7	SSE	3	c	1	56	44	-	
Aberdeen ...	30.06	42	SSE	3	b	29.91	-18	46	44	+6	SSE	4	0	5	48	40	-	
ENGLAND.																		
Leith ...	30.05	46	E	2	0	29.58	-20	52	47	+5	S	3	0	*	52	44	-	
Shields ...	30.10	43	E	3	0	29.98	-09	47	45	+7	SSW	3	c	3	47	38	-	
Spurn Head ...	30.14	44	ESE	3	0	30.09	-01	47	46	+7	SSW	4	0	3	47	39	-	
York ...	30.13	50	S	1	0	30.08	-04	44	44	+2	SSE	3	0	*	52	35	-	
Loughborough ...	30.13	53	ESE	1	c	30.11	-03	51	49	+12	S	3	0	*	54	39	-	
IRELAND.																		
Ardrossan ...	30.01	47	SE	2	om	29.77	-29	48	47	+6	SSE	4	opm	4	48	41	-	
Malin Head ...	29.90	48	SSW	4	or	29.60	-29	50	50	+4	SSW	6	ogp	3	54	44	0.04	
Mallaghmore ...	29.92	55	SW	4	0	29.67	-24	51	47	0	SW	6	om	5	56	50	0.04	
Belmullet ...	29.90	51	SSW	5	0	29.67	-19	51	46	+1	WSE	7	0	*	52	49	0.11	
Donaghadee ...	30.00	48	S	2	0	29.77	-27	50	49	+5	SW	6	0	4	51	44	0.01	
WALLES.																		
Liverpool (Bidston)	30.09	55	WSE	1	b	30.00	-10	48	47	+7	SE	4	0	3	58	41	-	
Holyhead ...	30.07	49	SSW	5	c	29.91	-16	49	49	+4	S	6	mqr	5	53	45	0.02	
Parsonstown ...	29.97	59	SSE	1	0	29.82	-16	52	49	+2	SW	2	c	*	63	49	0.03	
Valencia ...	29.94	53	SE	4	om	29.90	-08	53	50	+1	SW	6	om	6	55	50	0.23	
Roche's Point...	30.04	51	S	3	c	29.91	-14	52	50	+1	WSE	5	0	4	55	50	0.25	
SCOTLAND.																		
Pembroke (St. Ann's Hd.)	30.12	48	S	3	0	29.95	-15	49	49	+2	SSW	5	f d	5	53	46	0.09	
Scilly ...	30.15	53	SSE	4	c	30.03	-07	51	51	-2	SSW	5	m	3	56	49	0.12	
Prawle Point ...	30.20	49	SSW	2	0	30.17	+01	48	48	+2	SSW	6	rmu	4	49	45	0.03	
Jersey (St. Aubin's)	30.26	50	SSW	2	b	30.26	+06	51	48	+3	S	3	cm	3	52	46	-	
Hurst Castle ...	30.32	49	SW	3	b	30.21	+03	50	49	+5	SSW	5	cm	2	50	44	-	
ENGLAND.																		
Dungeness ...	30.19	46	W	5	c	30.22	+09	49	46	+8	WSE	4	c	3	49	40	-	
London ...	30.18	51	WSE	1	b	30.20	+07	51	48	+10	SSE	2	b	*	53	41	-	
Oxford ...	30.19	48	S	2	c	30.16	+00	50	48	+9	S	8	0	*	55	41	-	
Cambridge ...	30.18	50	SSE	1	c	30.17	+02	55	50	+13	SSW	1	c	*	55	40	-	
Yarmouth ...	30.14	45	NNE	2	c	30.16	+09	47	46	+6	SW	2	b	3	47	39	-	
FRANCE.																		
Cuxhaven ...	30.02	40	W	3	0	30.14	+32	41	40	-2	WSE	4	r	*	45	39	0.04	
Berlin ...	30.14	47	W	3	0	30.27	+34	44	41	-3	W	4	0	*	54	43	-	
Wiesbaden ...	*	*	*	*	*	30.32	+31	45	42	0	Z	0	0	*	50	43	-	
Munich ...	30.22	47	NW	2	c	30.33	+28	45	42	-2	NE	4	c	*	57	39	-	
The Helder ...	30.17	43	N	2	c	30.21	+22	45	44	+3	S	1	c	1	45	41	-	
NETHERLANDS.																		
Brussels (9 a.m.)	?	*	*	*	*	30.31	+22	43	41	+2	SW	2	0	*	46	40	-	
Cape Gris Nez ...	?	45	WSE	3	0	?	?	45	43	+5	SSW	4	b	3	46	39	-	
Paris ...	30.29	46	NW	2	0	30.36	+21	42	41	+1	S	1	b	*	47	34	-	
Brest ...	30.22	53	SSW	3	m	30.18	+02	52	50	+1	S	5	0	4	63	46	-	
Lorient ...	30.26	51	S	2	c	30.26	+07	50	47	+4	S	3	0	4	55	45	-	
SPAIN.																		
Roche fort ...	30.32	53	NW	4	0	30.35	+12	48	46	0	SSE	3	c	?	59	41	-	
Belfort ...	30.15	44	S	1	0	30.30	+24	42	38	-4	S	1	0	*	54	41	-	
Lyons ...	30.23	48	NW	2	0	30.32	+22	43	41	-4	WSE	2	0	*	51	41	-	
Nice ...	30.05	54	SW	4	b	30.07	+07	51	47	0	NE	4	b	1	64	48	-	
Perpignan ...	30.18	57	NW	4	b	30.24	+13	54	49	+2	N	2	b	*	?	45	-	
Biarritz ...	30.30	49	N	3	0	30.32	+14	47	45	-6	Z	0	c	1	57	43	-	
PORTUGAL.																		
Corunna ...	*	*	*	*	*	30.30	+09	56	52	+2	Z	0	b	2	66	54	-	
Lisbon ...	30.26	56	NW	5	b	30.30	+09	56	52	+2	Z	0	b	2	66	54	-	

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

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

for 8 a.m. on Monday, 21st April.

1890

EXPLANATION OF MAP.

Changes since previous morning are stated in words.

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

 = Rough, = High.

at 8.0 a.m. for the month of April.
During the 15 Years: 1871—1885.

Hand-drawn map of the North Atlantic region, showing temperature isotherms and weather patterns. The map includes latitude and longitude lines, with handwritten notes such as "Rain W", "R & M E R", "GENERALLY Rain has", and "COLDER". Numerical values like 50, 49, 48, 47, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1, 0 are scattered across the map, likely representing temperature or pressure values. The map is titled "GENERAL" and "COLDER".

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.1 ins. to 30.6 ins. over Scandinavia, 30.2 ins. to 30.4 ins. over France and the northern part of Spain.
Lowest, 29.6 ins. and less, in the depression lying off our northwestern coast.

Gradients rather steep over Ireland and Scotland.

Barometer falling quickly in the north, slightly in the east, but has begun to rise quickly in the south of Ireland since 3 a.m.

TEMPERATURE

Highest, 56° at Lisbon, 53° at Valencia, 52° at Rock Point, Smith, and Aurin.

Lowest, 33° at Haparanda, 36° at Stockholm, 42° at Paris and Belfast, 44° at Berlin.

It was rising decidedly over England, after a somewhat cold night. In London the daily minima recorded were 41° in the evening, 35° in the morning.

WIND

S¹ over Great Britain—light to moderate at the eastern stations, strong in the west and north.

In Ireland it is SSW⁴ to WSW³, strong and equally in most places.

In Norway the wind is E⁴ and moderate; in France variable.

WEATHER

Fine and light over Scandinavia and the east of England. Cloudy and unsettled elsewhere, with rain at several northeastern stations, and also at Copenhagen and Paris. In London and at Harst-Carth the sky has a changeable appearance, and a partial well defined halo is visible. Rain fell during the preceding 24 hours both on our western coast and on the eastern shores of the North Sea.

SEA

Rough on our western and northern coasts generally, moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression in the northwest seems likely to cause unsettled changeable weather very generally, with wind varying between S. and W.

FORECASTS

For the 24 hours ending at NOON on 22nd April 1890.

DISTRICTS.

FORECASTS.

0 SCOTLAND NORTH

S² and SW² winds, strong; squally, showery.

1 SCOTLAND EAST

S¹ and SW¹ winds, fresh; changeable, some showers.

2 ENGLAND N.E.

3 ENGLAND EAST

4 MIDLAND COUNTIES

5 ENGLAND SOUTH

S¹ to W² winds, moderate to fresh; changeable, some mild showers then colder.

DISTRICTS.

FORECASTS

6 SCOTLAND WEST

SW¹ to S² winds, strong to moderate; changeable, showery.

7 ENGLAND N.W.

8 ENGLAND S.W.

9 IRELAND NORTH

10 IRELAND SOUTH

SW¹ and W² winds, strong but moderating and backing again; changeable, showery to fair, unsettled.

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	39	36	c	2	0	2	Holyhead ...	30.58	52	49	SSW	2	c	3
Sumburgh Head ...								Valencia ...							
Stornoway ...	29.89	48	47	s	4	0	4	Scilly ...							3
Aberdeen ...								Jersey ...	30.25	51	46	WSW	3	c	3
Shields ...								Dungeness ...	30.19	47	43	W	5	c	*
Ardrossan ...								London ...							
Malin Head ...	29.89	54	51	s	5	0	2	Yarmouth ...							
Mullaghmore ...								Rochefort ...	30.30	57	50	W	3	c	
Belmullet ...	29.88	51	50	SSW	5	0	*								

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

Weather fine in the north and east of Scotland and the north of Scandinavia, as well as in Austria and the south of France. Cloudy or dull elsewhere with mist at several of the English and Irish stations, and rain at St. Petersburg, Belfast, Munich and Malta. Sky clearing later over the south and southeast of England, but rain setting in on our extreme northwest coasts.

Temperature highest 64° at Brindisi, 63° at Malta, 60° at Trieste, and 59° at Lesina and Naples, high 58° and upwards over south Europe generally, as well as in the extreme west and southwest of our Islands. Lowest 29° at Haparanda, 31° at Archangel, 32° at Kuopio, 34° at Stockholm, 35° at Hangö, Helsingfors and Moscow, and 36° at Skagen, below 40° in some parts of central England. Subsequently rising to 55° or upwards in many parts of Ireland and England, the highest reading being 63° at Parsonstown.

Wind S³ or SE² in the west and north of our Islands, strong in force in the west of Ireland. Light or moderate from the N or NW over France, the Iberian peninsula, and the E and SE of England, W² or S² in Germany and Austria, SE² or S² over central and southern Russia; E² in Scandinavia and Denmark. Subsequently backing to the SW in the southeast of England, and to the SE on our extreme southwest coasts.

Barometer highest 30.5 ins. and upwards in an anticyclone lying over central Russia, high 30.2 ins. and upwards in another area extending northeastward from Portugal to the northwest of France. Lowest 29.9 ins. and less in a large and irregularly shaped depression lying over Denmark, north Germany and the Baltic, as well as in another disturbance lying to the westward of the United Kingdom. Depression in west subsequently moving northwards, but new system beginning to approach the south of Ireland.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 13TH TO 19TH APRIL 1890.

The weather of the past week has been mostly fair in the extreme north, but cloudy or dull elsewhere, with considerable falls of rain at some of our southern stations, and smaller amounts in most other districts. Thunder and lightning have occurred in several parts of Ireland and England.

Barometrical pressure has been continuously highest over the northern parts of Scandinavia and Russia, and lowest in the south of our Islands. At the commencement of the period a depression which had travelled eastward across the North Sea during the previous week was filling up over the Baltic, while a new disturbance was advancing northeastward from the Iberian peninsula. The former system soon dispersed, but the latter continued to travel slowly in a northeasterly and afterwards in an east-northeasterly direction across France to north Germany, its centre reaching the latter country by the close of the week. The disturbance was at first of some considerable depth, and in the course of its progress the wind blew strongly from E and NE on all our south and east coasts, with frequent rain, occasional thunderstorms in places, and a rough sea. Later on, however, the system gradually filled up, and at the close of the period the surrounding gradients were moderate and the winds were everywhere subsiding.

Temperature was somewhat high on the 14th, 15th and 16th but afterwards fell decidedly, and at the close of the week was everywhere low for the time of year. The maximum readings on the 19th were below 50° in many parts of Great Britain, and below 45° at some of our eastern stations.

EXPLANATION OF 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).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Tuesday 22nd April.

1890.

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 ...	30.40	30	X	0	b	30.23	-1.33	35	32	+2	SE	2	b	*	?	21	—	
Hernösand ...	30.26	36	2	0	c	30.09	-1.30	37	36	+1	NE	2	f	*	41	30	—	
Stockholm ...	30.18	36	E NE	2	0	30.05	-1.16	38	37	+2	X	0	f	*	39	34	0.00	
Wisby ...	30.13	36	SE	4	f	30.04	-1.02	41	40	+2	S	4	f	*	41	34	—	
Bodo ...	30.17	44	E	2	b	29.91	-1.42	40	42	+5	E	2	b	1	50	34	—	
CHRISTIANIA.																		
Christiansund	29.93	40	ESE	1	b	29.72	-1.43	49	42	+5	SE	2	bc	2	52	39	—	
Skudesnaes ...	30.02	42	SE	6	0	29.71	-1.45	42	39	0	S	7	T	5	45	39	0.32	
Christiania Fjord (Færder)	30.15	39	NNE	3	0	29.95	-1.23	38	37	+2	NE	3	0	1	39	3	—	
Skagen (The Scaw)	30.09	40	ESE	1	b	29.91	-1.17	43	42	+4	SE	2	b	1	46	37	—	
Faou ...	30.11	41	SE	2	0	29.85	-1.20	45	45	+4	S	4	T	*	45	39	0.16	
SCOTLAND.																		
Sumburgh Head	29.64	44	SE	6	T	29.38	-1.54	46	44	+3	SE	4	b	6	46	43	0.09	
Stornoway ...	29.51	50	S	7	0	29.23	-1.30	39	39	-10	NW	7	T	6	51	37	1.00	
Wick ...	29.64	50	SE	3	0	29.17	-1.60	44	43	-3	S	5	0	5	53	43	0.20	
Nairn ...	29.65	54	WSE	3	b	29.19	-1.55	47	45	-5	X	0	c	1	59	44	0.13	
Aberdeen ...	29.73	53	WSE	2	bc	29.26	-1.65	51	48	+5	SE	5	bc	3	53	44	0.18	
ENGLAND.																		
Leith ...	29.77	53	SE	4	bc	29.37	-1.51	48	45	-4	WSE	7	c	*	60	46	0.08	
Shields ...	29.85	55	SE	2	c	29.51	-1.47	54	50	+7	SE	5	c	2	56	45	—	
Spurn Head ...	29.95	51	SE	5	c	29.65	-1.44	50	49	+3	SE	4	0	4	57	46	0.02	
York ...	29.93	56	W	3	0	29.64	-1.44	54	50	+10	WSE	5	bc	*	57	43	—	
Loughborough	30.00	53	SE	4	0	29.75	-1.36	53	51	+2	SE	4	bc	*	56	48	0.01	
IRELAND.																		
Ardsrossan ...	29.79	52	W	3	c	29.50	-1.27	48	43	0	W	4	f	3	52	46	0.17	
Malin Head ...	29.72	51	WSE	6	bc	29.51	-1.09	43	42	-7	WSE	6	bc	4	54	40	0.06	
Mullaghmore ...	29.80	52	SE	7	bc	29.62	-1.05	48	45	-3	WSE	6	bc	5	53	43	0.04	
Belmullet ...	29.78	51	WSE	6	0	29.69	-1.02	48	45	-3	W	7	bc	*	54	45	0.14	
Donaghadee ...	29.84	56	WSE	4	0	29.58	-1.19	50	46	0	WSE	6	bc	4	61	47	0.03	
WALES.																		
Liverpool (Bidston)	29.95	54	SE	3	c	29.70	-1.30	51	47	+3	WSE	6	0	4	57	48	0.05	
Holyhead ...	29.94	49	SE	4	bc	29.72	-1.19	49	46	0	WSE	4	bc	4	53	46	0.10	
Parsonstown ...	29.88	55	SE	1	0	29.74	-1.08	50	45	-2	SE	3	bc	*	60	47	0.03	
Valencia ...	29.89	53	S	6	bc	29.90	0.00	52	48	-1	W	4	bc	5	57	49	0.13	
Roche's Point...	29.98	53	WSE	4	bc	29.85	-1.06	51	47	-1	WSE	4	bc	4	57	50	0.15	
FRANCE.																		
Pembroke (St. Ann's Hd.)	30.03	48	SE	4	0	29.85	-1.10	49	48	0	SE	6	bc	6	50	48	0.09	
Scilly ...	30.09	52	SE	3	bc	29.96	-1.07	52	52	+1	WSE	4	bc	4	54	49	0.04	
Prawle Point ...	30.13	48	W	3	f	29.95	-1.22	50	50	+2	W	4	f	3	50	46	0.18	
Jersey (St. Aubin's)	30.21	52	SE	3	bc	30.06	-1.20	51	50	0	SE	4	bc	3	54	50	0.11	
Hurst Castle ...	30.14	49	SE	7	bc	29.95	-1.26	49	49	-1	WSE	5	bc	4	50	48	0.13	
GERMANY.																		
Dungeness ...	30.16	49	SE	4	0	29.93	-1.29	49	48	0	SE	5	d	4	51	47	0.12	
London ...	30.12	50	SE	4	0	29.88	-1.32	52	51	+1	SE	3	0	*	60	49	0.11	
Oxford ...	30.07	49	SE	3	0	29.84	-1.32	53	52	+3	SE	3	bc	*	53	49	0.19	
Cambridge ...	30.06	50	SE	3	0	29.82	-1.35	53	52	-2	SE	3	bc	*	60	47	0.11	
Yarmouth ...	30.07	52	SE	4	c	29.77	-1.39	51	50	+4	SE	5	bc	4	57	45	0.05	
NETHERLANDS.																		
Cuxhaven ...	30.20	41	WSE	1	0	30.01	-1.13	47	46	+6	SE	4	T	*	48	3	0.56	
Berlin ...	30.20	46	SE	3	0	30.17	-1.10	49	46	+5	W	3	0	*	50	43	—	
Wiesbaden ...	30.21	46	SE	3	0	30.21	-1.11	42	41	-3	X	0	bc	*	53	36	—	
Munich ...	30.23	45	SE	2	0	30.26	-1.07	43	41	-2	SE	4	b	*	52	32	—	
The Helder ...	30.14	48	SE	3	T	29.89	-1.32	49	47	+4	SE	4	T	3	52	45	0.12	
BELGIUM.																		
Brussels (9 a.m.)	30.03	49	SE	4	0	30.03	-1.28	49	47	+6	SE	4	T	*	59	3	0.04	
Cape Gris Nez	30.03	49	SE	4	0	30.03	-1.28	49	47	+6	SE	4	T	5	52	40	0.12	
Paris ...	30.29	55	S	1	bc	30.15	-1.21	51	48	+5	SE	3	0	*	59	3	—	
Brest ...	30.21	51	WSE	3	bc	30.12	-1.06	53	50	+1	SE	5	bc	5	63	46	—	
Lorient ...	30.26	51	S	3	bc	30.15	-1.11	51	51	+1	WSE	4	bc	5	54	48	—	
SPAIN.																		
Rochefort ...	30.36	57	NW	3	c	30.31	-1.04	51	51	+1	WSE	2	bc	*	68	45	—	
Belfort ...	30.19	43	S	1	0	30.21	-1.09	42	38	0	SE	2	bc	*	62	35	—	
Lyons ...	30.28	51	N	2	b	30.29	-1.03	48	43	+5	N	1	b	*	53	41	—	
Nice ...	30.07	60	WSE	1	b	30.08	+0.01	62	49	+11	E	3	b	1	68	3	—	
Perpignan ...	30.19	64	NW	3	b	30.23	-1.01	61	50	+7	W	3	b	*	69	3	—	
Biarritz ...	30.23	56	NW	2	b	30.35	+0.03	56	53	+9	NW	4	0	2	63	3	—	
PORTUGAL.																		
Corunna ...	30.34	59	NW	5	b	30.36	+0.06	59	52	+3	N	4	b	*	66	55	—	
Lisbon ...	30.34	59	NW	5	b	30.36	+0.06	59	52	+3	N	4	b	*	66	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

Tuesday, 22nd April.

1890.

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—

→ = force above 10; → = force 8 to 10;

→ = force 5 to 7; → = force 1 to 4.

○ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

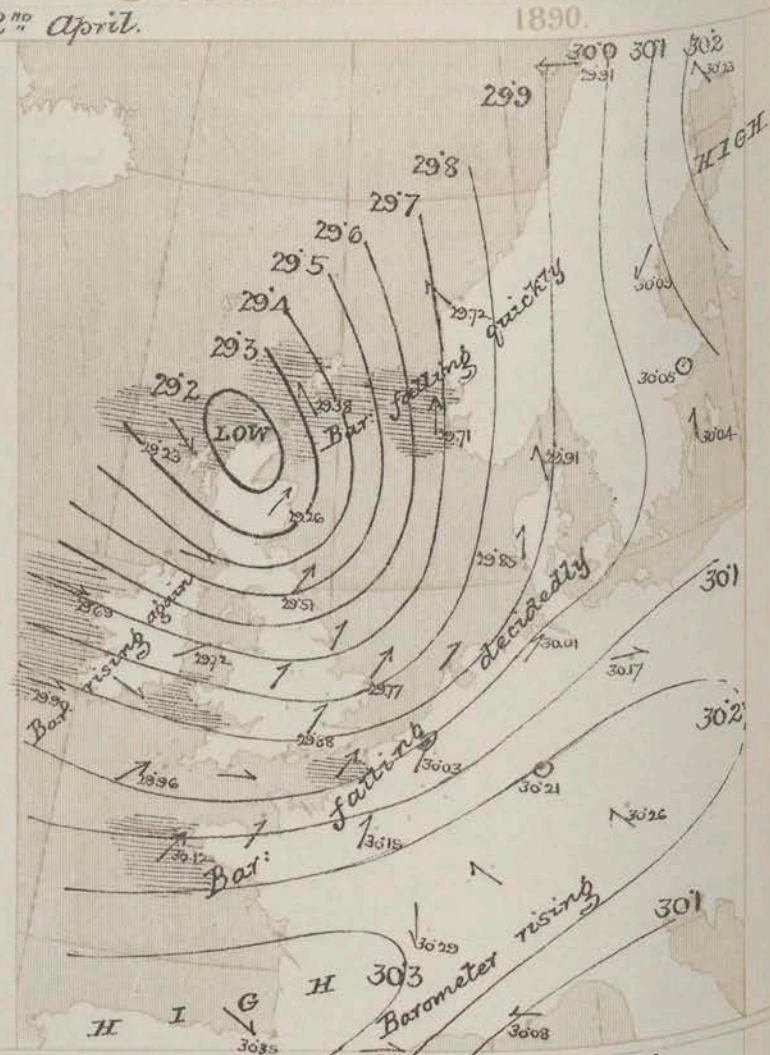
— = Rough. — = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of April.

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.849
Stornoway	29.821
Wick	29.853
Nairn	29.853
Aberdeen	29.862
Leith	29.865
Shields	29.870
York	29.877
Loughborough	29.878
Ardsman	29.857
Donaghadee	29.853
Holyhead	29.851
Liverpool	29.864
Parsonstown	29.853
Valencia	29.835
Roche's Point	29.838
Pembroke	29.844
Seilly	29.840
Jersey	29.867
Hurst Castle	29.867
Dover	29.866
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.876



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.

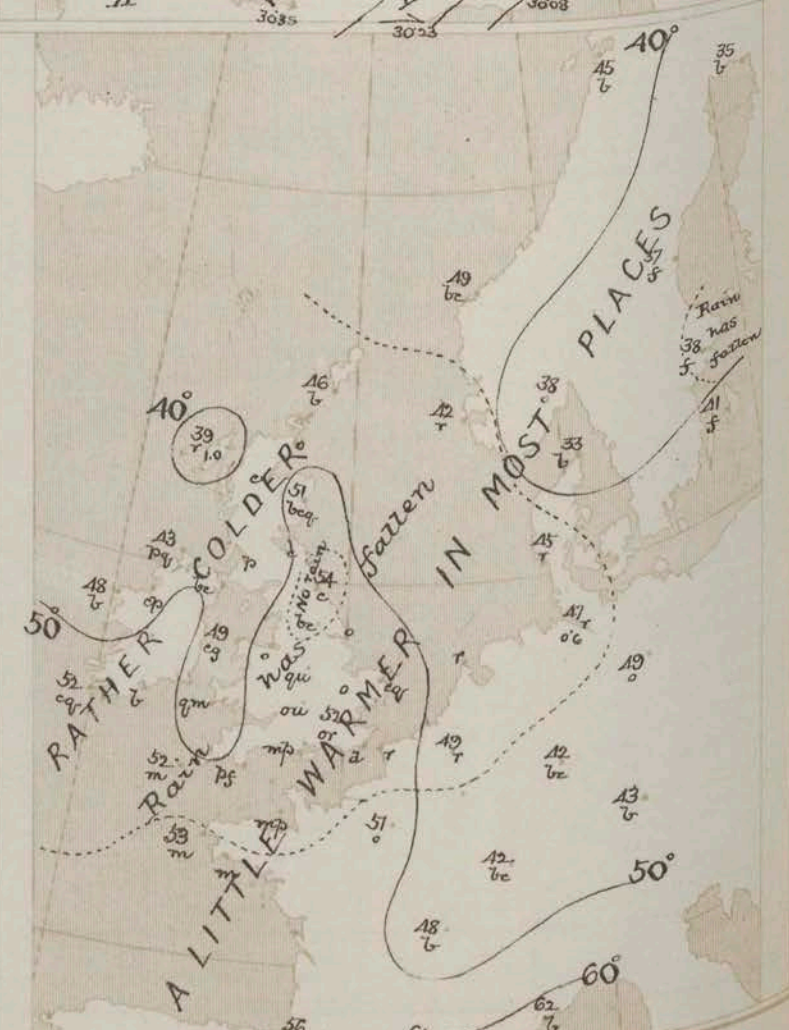
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of April.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.	at 4 p.m.	
Sumburgh Head	46.3	37.3	41.0	40.3	2.10
Stornoway	49.3	37.3	41.1	42.3	2.31
Wick	49.2	37.4	43.2	41.2	1.56
Nairn	51.6	37.9	43.1	40.6	1.23
Aberdeen	49.6	38.3	43.4	40.9	2.23
Leith	52.0	38.2	44.2	42.1	1.66
Shields	49.2	39.2	43.8	41.7	1.94
York	54.1	37.8	41.1	42.0	1.86
Loughborough	56.7	38.3	45.1	42.6	1.77
Ardsman	52.1	39.9	44.6	42.2	2.23
Donaghadee	51.3	40.1	44.8	43.2	2.02
Holyhead	51.2	42.4	46.2	44.2	1.86
Liverpool	53.0	40.7	45.5	42.9	1.56
Parsonstown	53.0	38.3	45.7	43.0	2.16
Valencia	54.3	42.0	48.4	45.9	4.03
Roche's Point	54.2	42.4	47.0	44.9	3.43
Pembroke	50.8	42.1	45.6	43.6	2.10
Seilly	52.5	45.0	49.0	47.1	2.45
Jersey	54.0	43.6	49.0	40.4	3.04
Hurst Castle	52.3	41.4	46.9	44.0	1.87
Dover	51.5	42.4	47.1	44.5	1.81
LONDON	56.7	40.0	40.8	43.8	1.86
Oxford	55.1	39.3	43.0	42.7	1.79
Cambridge	56.2	37.7	45.3	43.3	1.78
Yarmouth	40.5	40.4	45.1	43.4	1.80

NOTE.—The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 20 years 1866-85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.2 in: to 30.3 in: and more over France and the Iberian Peninsula; 30.0 in: to 30.2 in: over Sweden.
Lowest, 29.2 in: and less, in a depression over the north of Scotland.

Gradients moderate in most places, rather steep in the north.

Barometer rising on our southern coast, falling in the north and east.

TEMPERATURE

Highest, 61 and more in the south of France, 59° at Lisbon, 54° at Shields and York, 52° in London, at Seilly, and Valencia.
Lowest, 35° at Haparanda, 38° at Stockholm and Trondheim, and 39° at Stornoway.

During yesterday it rose to 61° at Donaghadee, and 60° at Feith, Carronstown, Cambridge and London.

WIND

SW⁴ over nearly the whole of Great Britain, moderate to strong in force; W³ strong to a moderate gale in Ireland and at Feith;
NW⁴ a moderate gale in the Hebrides. In Norway it is SW³, over the Bay of Biscay SW³ to W³.

WEATHER

Very changeable; fine and bright at several of our western stations, cloudy or overcast elsewhere with rain in many places.
Rain has fallen at almost all stations since yesterday morning, but except at Stornoway the fall has been slight.
Lightning was seen in London last evening.

SEA

Rough in the north and west, moderate in the Channel, slight on our east and northeast coast.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A continuation of showery changeable weather is probable, with SW³ and W³ winds.

FORECASTS

For the 24 hours ending at NOON on 23rd April 1890.

DISTRICTS.

FORECASTS.

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

S² to W² and NW² winds, strong;
squally, changeable, showery.

SW² and W² winds, fresh or strong;
cloudy to clear, gusty, some rain.

DISTRICTS.

FORECASTS

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

W² and SW² winds, strong to moderate;
squally, showery.

WARNINGS

The SOUTH CONE was hoisted yesterday afternoon in districts 6 to 10 and part of 0.

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 ...	29.12	45	40	SW	2	c	2	Holyhead ...	29.94	51	50	SW	5	on g	5
Sumburgh Head ...	29.73	43	42	SE	6	o	6	Valencia ...	29.98	56	53	SW	5	on	5
Stornoway ...	29.46	51	50	S	7	o	6	Scilly ...	29.11	54	53	W SW	4	f	3
Aberdeen ...	29.74	46	45	SE	6	o g f	6	Jersey ...	30.25	54	50	SE	3	3 g m p	3
Shields ...	29.85	55	52	SW	2	c	2	Dungeness ...	30.20	50	48	SW	4	o f	3
Ardrossan ...	29.78	52	48	SW	4	c	4	London ...	30.17	55	50	SW	4	c	3
Malin Head ...	29.68	54	49	SW	7	f	5	Yarmouth ...	30.10	54	51	S	4		
Mullaghmore ...	29.80	55	49	SW	7	cm	6	Rochefort ...							
Belmullet ...	29.79	54	49	W SW	6	o	*								

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

Weather fine over the northern part of Scandinavia and Russia, as well as in Austria, Spain, and the south of France; fair in the east and southeast of Great Britain and the north of France. Dull elsewhere with fog over the Baltic Provinces, rain at some of our own western and northern stations, as well as over Denmark and the northern part of the Baltic and snow at Helsinki. Rain falling later in all parts of the United Kingdom, — heavily (1 inch) at Stornoway.

Temperature highest 55° to 60° or more over the Adriatic, the Mediterranean, and the coasts of the Iberian Peninsula (Cádiz 64° Malta 63°, Genoa 62°, Toulon and Corsica 61°); high, 50° or a little more in several parts of our Islands. Lowest 18° at Archangel, 31° at Kuopio, 33° at Haparanda, 35° at Hangö, and 36° at Kemi and Uleaborg, Stockholm, Ånder, Helsinki, and St Petersburg, below 40° in some parts of central France. Thermometer subsequently rising to between 55° and 60° in many parts of the United Kingdom and to 61° at Liverpool.

Wind S⁴ or SW⁴ in our Islands, strong in force on our western and extreme northern coasts. Light or moderate from the E⁴ or NE⁴ over Finland and Scandinavia and from the W⁴ or SW⁴ over Denmark and North Germany. Variable over France, Spain, and the greater part of Central and Eastern Europe; N³ over Italy and the southern part of the Mediterranean, with a moderate gale in Tunis. Subsequently backing to the eastward of S. on our extreme western coasts, and increasing to a gale at Valencia.

Barometer highest, 30.5 ins. and upwards in an anticyclone lying over Lapland and Northern Russia; high 30.3 ins. and upwards in another system extending NE⁴ from Spain to Northern Germany. Lowest, 29.6 ins. and less, in a depression lying to the NW⁴ of our Islands, 29.7 ins. and less, in another system lying over the Mediterranean to the southward of Malta. Depression in northwest subsequently travelling away in a northerly direction, but new disturbance approaching the west of Ireland in evening.

EXPLANATION OF 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).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for *Wednesday, 23rd April, 1890.*
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 4.)	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 ...	29.97	33	W	0	r	29.80	- .43	35	35	0	W	0	g	*	41	25	0.04	
Hernösand ...	29.85	35	ESE	2	r	29.69	- .40	37	37	0	ESE	2	g	*	39	34	0.04	
Stockholm ...	29.80	39	SE	2	o	29.55	- .50	42	41	+ .4	SE	2	g	*	46	34	0.08	
Wisby ...	29.84	41	S	6	r	29.51	- .53	44	43	+ .3	S	4	r	*	48	34	0.24	
Bodö ...	29.73	43	E	4	g	29.57	- .34	47	44	- .1	ESE	4	g	2	50	41	-	
SCANDINAVIA.																		
Christiansund ...	29.40	49	SSE	4	b	29.33	- .39	49	43	0	ESE	2	bc	3	55	46	-	
Skudesnaes ...	29.41	41	ESE	8	r	29.84	- .37	43	42	+ .1	SSW	2	r	5	43	41	0.39	
Christiania Fjord (Færdier) ...	29.53	41	ESE	6	r	29.41	- .54	39	38	+ .1	WSW	4	b	2	41	37	0.51	
Skagen (The Seaw) ...	29.50	43	S	1	bc	29.46	- .45	40	40	- .3	WSW	3	o	2	43	36	0.32	
Fanö ...	29.60	42	WSW	4	bc	29.62	- .23	45	44	0	W	4	c	*	46	41	0.35	
SCANDINAVIA.																		
Sumburgh Head ...	29.11	43	WNW	4	o	29.27	- .11	47	46	+ .1	W	2	b	4	48	42	0.06	
Stornoway ...	29.37	49	W	6	c	29.46	+ .23	47	46	+ .8	W	6	c	6	51	37	0.40	
Wick ...	29.28	45	WNW	6	o	29.43	+ .26	49	44	+ .5	WNW	6	bc	5	49	39	0.18	
Nairn ...	29.39	50	W	5	o	29.48	+ .29	47	45	0	W	4	bp	3	54	42	0.11	
Aberdeen ...	29.40	49	WSW	4	cq	29.51	+ .25	50	43	- .1	WSW	3	cq	2	54	39	0.03	
SCANDINAVIA.																		
Leith ...	29.55	54	WSW	4	c	29.60	+ .23	48	44	0	WSW	6	b	*	55	43	0.07	
Shields ...	29.63	50	WSW	5	bcq	29.69	+ .18	49	45	- .5	WSW	5	c	2	55	44	0.01	
Spurn Head ...	29.74	51	W	6	c	29.80	+ .15	48	45	- .2	W	6	cq	5	53	42	0.04	
York ...	29.74	54	W	4	b	29.81	+ .17	49	44	- .5	W	5	bc	*	59	43	-	
Loughborough ...	29.83	54	W	5	b	29.91	+ .16	50	45	- .3	W	4	bcq	*	60	43	0.01	
SCANDINAVIA.																		
Ardrassan ...	29.62	49	WNW	5	bc	29.70	+ .20	48	44	0	WNW	5	cq/p	4	51	44	0.22	
Malin Head ...	29.66	45	W	6	bcq	29.71	+ .20	45	44	+ .2	W	6	cq/p	5	51	42	0.18	
Mullaghmore ...	29.79	50	WSW	7	c	29.87	+ .25	49	45	+ .1	W	7	bc	6	52	42	0.10	
Belmullet ...	29.82	49	W	7	b	29.88	+ .19	48	45	0	W	5	b	*	53	45	0.08	
Donaghadee ...	29.73	51	NW	4	b	29.82	+ .24	49	45	- .1	WNW	5	b	4	58	45	0.04	
SCANDINAVIA.																		
Liverpool (Bidston) ...	29.81	51	WSW	6	bc	29.89	+ .19	48	45	- .3	WSW	6	b	5	54	45	0.05	
Holyhead ...	29.85	51	W	5	cq	29.94	+ .22	50	46	+ .1	WSW	4	bcq	4	55	45	0.01	
Parsonstown ...	29.92	52	SW	3	c	29.97	+ .23	48	45	- .2	SW	3	o	*	57	42	0.06	
Valencia ...	30.04	52	WSW	5	bcq	30.06	+ .16	51	49	- .1	WSW	5	cq	6	56	47	0.01	
Roche's Point ...	30.00	53	WNW	5	b	30.06	+ .21	51	47	0	W	4	b	4	56	45	-	
SCANDINAVIA.																		
Pembroke (St. Ann's Hd.) ...	29.97	49	WSW	5	b	30.07	+ .22	49	47	0	WSW	5	bc	5	51	47	-	
Scilly ...	30.10	51	W	4	c	30.17	+ .21	52	50	0	WSW	4	bc	4	55	47	-	
Prawle Point ...	30.04	50	WNW	5	bc	30.13	+ .18	50	50	0	WNW	5	bcq	3	54	45	-	
Jersey (St. Aubin's) ...	30.07	52	W	4	c	30.21	+ .15	51	49	0	W	4	cm	3	53	47	0.20	
Hurst Castle ...	29.98	45	WNW	4	bc	30.08	+ .13	50	48	+ .1	W	5	bc	4	57	45	0.03	
SCANDINAVIA.																		
Dungeness ...	29.96	49	W	6	c	30.02	+ .09	49	46	0	WNW	5	c	4	51	41	0.05	
London ...	29.89	55	W	3	bc	30.00	+ .12	51	46	- .1	W	4	bc	*	62	41	-	
Oxford ...	29.95	49	W	3	b	30.00	+ .16	49	46	- .4	WSW	4	c	*	59	40	0.02	
Cambridge ...	29.88	55	SW	1	b	29.94	+ .12	50	45	- .3	SW	3	c	*	63	38	0.03	
Yarmouth ...	29.78	54	WNW	4	bc	29.87	+ .10	49	45	- .2	WNW	5	bcq	3	60	41	0.09	
SCANDINAVIA.																		
Cuxhaven ...	29.73	43	W	5	r	29.75	- .26	45	43	- .2	W	4	b	*	49	43	0.52	
Berlin ...	29.84	50	SW	4	r	29.84	- .33	49	46	0	WNW	4	bc	*	59	46	0.12	
Wiesbaden ...	*	*	*	*	*	30.00	- .21	51	49	+ .9	W	2	o	*	54	?	0.51	
Munich ...	30.04	57	W	4	r	30.03	- .23	50	48	+ .7	W	5	o	*	68	43	0.83	
The Helder ...	29.79	46	WSW	2	b	29.84	- .05	46	44	- .3	WSW	3	b	3	?	45	0.28	
SCANDINAVIA.																		
Brussels (9 a.m.) ...	*	*	*	*	*	30.01	- .02	47	45	- .2	WSW	1	c	*	55	45	0.32	
Cape Gris Nez ...	?	48	W	6	c	?	?	46	43	- .3	W	6	b	5	52	43	0.16	
Paris ...	30.03	57	WSW	3	o	30.17	+ .02	45	43	- .6	W	2	c	*	58	44	0.12	
Brest ...	30.12	53	WNW	1	m	30.24	+ .12	51	50	- .2	NW	3	o	4	63	45	0.43	
Lorient ...	30.15	51	W	4	b	30.29	+ .14	50	49	- .1	WNW	4	c	4	54	46	0.04	
SCANDINAVIA.																		
Rocheport ...	30.27	55	WSW	5	f	30.35	+ .04	54	52	?	NW	4	o	?	59	45	0.04	
Belfort ...	29.99	52	W	3	r	30.00	- .21	54	47	+ .12	W	1	b	*	62	35	0.20	
Lyons ...	30.18	57	ESE	1	r	30.19	- .10	53	51	+ .3	NW	1	o	*	63	?	0.04	
Nice ...	30.06	61	WSW	4	b	29.89	- .19	57	50	- .5	SW	4	c	1	70	54	-	
Perpignan ...	30.19	67	W	3	c	30.19	- .04	63	58	+ .2	W	4	b	*	?	?	-	
Biarritz ...	30.37	56	W	4	o	30.38	+ .03	55	50	- .1	NW	4	b	2	64	54	0.04	
SCANDINAVIA.																		
Corunna ...	*	*	*	*	*	30.39	+ .03	59	55	0	N	4	b	?	68	55	-	
Lisbon ...	30.38	58	N	5	b	30.39	+ .03	59	55	0	N	4	b	?	68	55	-	

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

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

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for 8 a.m. on

Wednesday, 23rd April.

1890.

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EXPLANATION OF MAP.

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Changes since previous morning are stated in words.

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their barbs and feathers refer to force thus—

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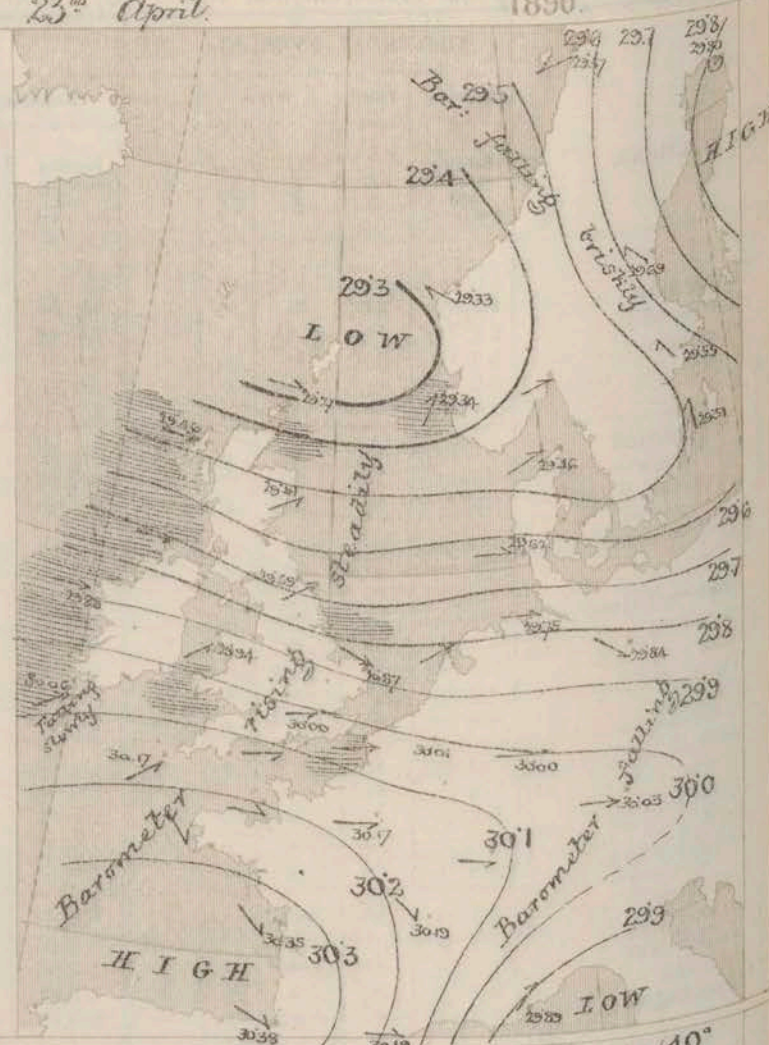
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of April.

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.849
Stornoway	29.821
Wick	29.853
Nairn	29.853
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Shields	29.870
York	29.877
Loughborough	29.878
Ardrossan	29.887
Donaghadee	29.853
Holyhead	29.851
Liverpool	29.864
Parsonstown	29.853
Valencia	29.833
Roche's Point	29.838
Pembroke	29.844
Selly	29.849
Jersey	29.867
Hurst Castle	29.867
Dover	29.866
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.870



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.

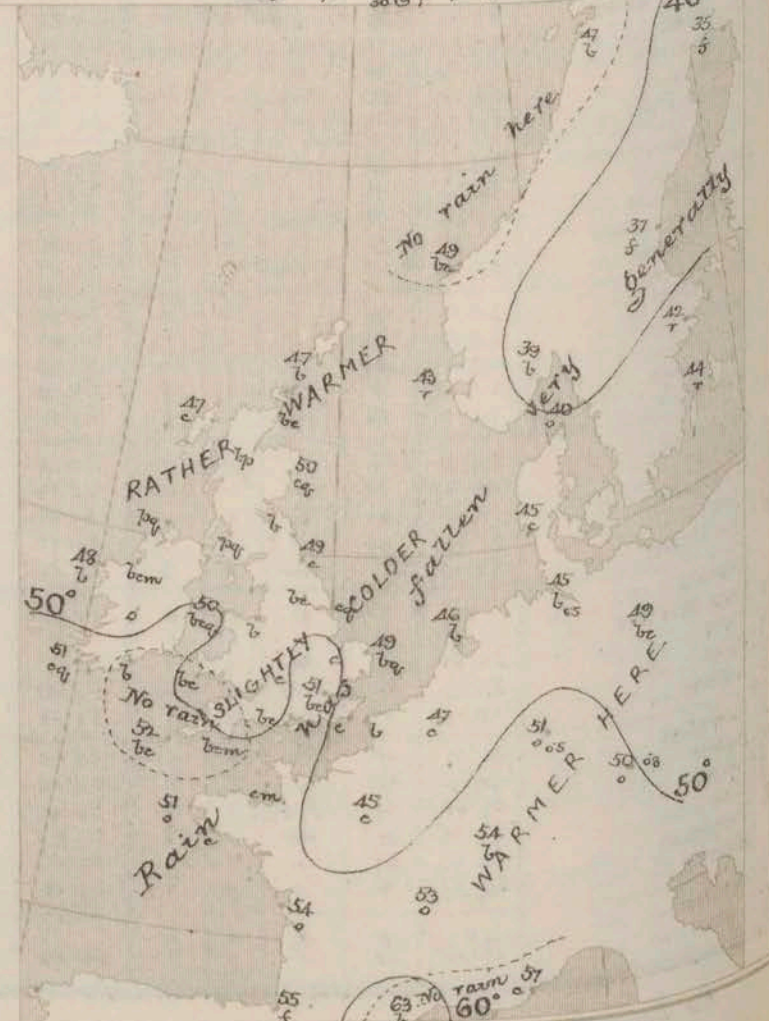
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of April.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	At 8 a.m.	At 4 p.m.	
Sumburgh Head	46.3	37.3	41.3	40.5	2.10
Stornoway	49.3	37.5	44.1	42.2	2.51
Wick	49.2	37.4	43.2	41.2	1.56
Nairn	51.5	37.9	43.1	40.6	1.23
Aberdeen	49.6	38.5	43.4	40.9	2.23
Leith	52.6	38.2	44.2	42.1	1.65
Shields	49.2	39.2	43.8	41.7	1.94
York	54.1	37.8	44.1	42.0	1.86
Loughborough	55.7	38.3	45.1	42.0	1.77
Ardrossan	52.1	39.2	44.0	42.2	2.23
Donaghadee	51.3	40.1	44.8	42.2	2.02
Holyhead	51.9	42.4	46.2	44.2	1.86
Liverpool	53.0	40.7	45.5	42.0	1.56
Parsonstown	55.0	38.3	45.7	43.0	2.15
Valencia	54.3	42.9	48.4	45.9	4.01
Roche's Point	54.2	42.4	47.0	44.9	3.43
Pembroke	50.8	42.1	45.6	43.6	2.10
Selly	52.5	45.0	49.0	47.1	2.45
Jersey	54.6	43.6	49.0	45.4	2.04
Hurst Castle	52.3	41.4	45.9	41.0	1.87
Dover	51.5	42.1	47.1	44.5	1.81
LONDON	56.7	40.0	48.8	43.8	1.76
Oxford	55.1	39.3	45.0	42.7	1.79
Cambridge	56.2	37.7	45.5	43.3	1.74
Yarmouth	40.5	40.4	45.1	43.4	1.50

NOTE—The Temperature means are for the 15 years 1871-85; the Rainfall means are mainly those for the 20 years 1866-85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.0 in. to 30.3 in. and more, over the southern part of our Islands, France, Spain, and the Bay of Biscay.
Lowest, 29.3 in. and less, in a depression lying off the west of Norway.

Gradient moderate, but somewhat irregular.

Barometer rising at almost all of our own stations, falling decidedly over Scandinavia, the Baltic and Germany and slightly over the Gulf of Finia. At Helsinki a foot, fall has set in.

TEMPERATURE

Highest, 63° at Perpignan, 59° at Lisbon, 57° at Nice, 52° at Bally, 51° at Jersey, in London, and at Valencia.

Lowest, 35° to 37° over the northern parts of Sweden, 40° at the Cape, 43° at Paris and Malin Head, and 47° at Skew and Edinburgh Harb.

It rose to 70° at Nice, 63° at Bristol, Munich and Birmingham, 61° in London, and 61° at Loughborough and Plymouth during yesterday, but fell to 41° in London early this morning.

WIND

W^{ly} throughout our Islands, and Germany; fresh to strong in force as a whole, moderate elsewhere.

Over the northern parts of Scandinavia it is E^{ly}, moderate.

WEATHER

Rain generally over our Islands, but with some showers in a few localities, and a rather showery appearance of the sky at several stations. A solar halo is visible at Jersey. Rain is falling at Skudesnæs, Stockholm, and Nisy.

Showers fell in nearly all places yesterday, but except at a few Continental stations the amounts collected were small.

SEA

Still rough in the north and extreme west, moderate in the Channel, slight in most parts of our east and northeast coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

No immediate change of importance is indicated.

FORECASTS

For the 24 hours ending at NOON on 24th April 1890.

DISTRICTS.

FORECASTS.

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

W^{ly} winds, strong to moderate; some showers, bright intervals.

W^{ly} to SW^{ly} breezes, fresh to light; slight showers, bright intervals. Rather cold tonight.

DISTRICTS.

FORECASTS

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

Wind backing to SW again, strong to fresh; some showers.

WARNINGS

The SOUTH CONE is still flying in districts 6, 7, 9, and part of 10.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.48	43	40	ESE	8	r	5		Holyhead ...	29.81	54	48	W	5	5
Sumburgh Head ...	29.12	44	44	ESE	5	r	6		Valencia ...	30.02	56	51	W	5	6m
Stornoway ...	29.32	47	47	W	7	r	6		Scilly ...	30.04	54	52	W	4	3
Aberdeen ...	29.40	44	41	WSW	6	c q p	4		Jersey ...	30.06	52	52	W	4	4
Shields ...	29.57	53	48	W	5	c	2		Dungeness ...	29.84	50	49	WSW	6	6c
Ardrossan ...	29.59	48	45	W	5	c	4		London ...	29.84	61	53	WSW	4	3
Malin Head ...	29.60	51	48	WSW	7	6c	5		Yarmouth ...	29.73	55	53	W	5	c q p
Mullaghmore ...	29.76	52	48	WSW	7	6	6		Rochefort ...	30.30	58	54	W	5	0
Belmullet ...	29.80	51	48	W	6	6c	*								

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

Weather fine at several of the Irish stations as well as over the north of Scandinavia, Russia, Austria, Spain, Algeria, and the south parts of France and Germany. Dull elsewhere with fog over Sweden and the Gulf of Finland, and rain in many parts of Great Britain, as well as in the Netherlands, Denmark, and the south of Scandinavia. Some improvement taking place over Great Britain later, but weather remaining somewhat showery.

Temperature highest 64° at Genoa, 63° at Ravenna and Algiers, 62° at Bilbao, Nice, and Lybourn, and 61° at Perpignan, London, and Oron; above 50° in many parts of England, Ireland, and France. Lowest 22° at Archangel, 34° at Kuopio, 35° at Haparanda, 36° at Hangö, 37° at Uleaborg, Hernösand and Helsingfors, 38° at Stockholm and Lander, and 39° at Stornoway. Subsequently rising to 60° or a little above over the central and eastern parts of England.

Wind strong from the W. in the west of our Islands, moderate or fresh from the SW. on our east and southeast coasts and in the north of France; S. on the eastern shores of the North Sea. Light from the SE. or E. in Sweden and Russia; variable over central Europe and Algeria, light or moderate from the N. over Italy and Spain. Subsequently veering to the W. over the whole of the United Kingdom and continuing to blow strongly in the west.

Barometer highest 30.6 ins. and upwards, in an anticyclone lying over Northern Russia, high 30.4 ins. and upwards, in another system lying over the north of Spain. Lowest, 29.2 ins. and less, in a well marked and rather deep depression lying over the north of Scotland; 29.8 ins. and less, in a shallow disturbance lying over the Mediterranean to the southward of Italy. Depression in north subsequently travelling away in a north-northeasterly direction, and barometer rising in all parts of the United Kingdom.

EXPLANATION OF 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).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for *Thursday 24th April* 1890.
 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 6.)	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.
Haparanda ...	29.60	33	2	0	o	29.57	-23	36	36	+1	2	0	m	*	39	32	0.04	
Hernösand ...	29.54	36	SE	2	P	29.43	-26	36	36	-1	SE	2	f	*	39	34	0.63	
Stockholm ...	29.50	41	2	0	C	29.56	+01	45	42	+3	SW	4	o	*	45	36	0.08	
Wisby ...	29.63	42	SW	4	C	?	?	45	44	+1	SW	4	bc	*	52	39	0.04	
Bodö ...	29.54	44	ENE	2	bc	29.49	-08	46	44	-1	ENE	4	C	2	40	37	-	
Christiansund ...	29.31	50	W	1	C	29.34	+01	40	45	-1	ENE	3	o	2	57	45	-	
Skudesnaes ...	29.49	44	SW	4	o	29.50	+16	45	44	+2	WSW	3	C	4	57	41	0.12	
Christiania Fjord (Færd)	29.48	42	WSW	2	P	29.40	+07	47	40	+2	WSW	4	bc	2	45	?	0.04	
Skagen (The Scaw)	29.50	42	W	3	C	29.53	+09	43	42	+3	W	3	m	3	40	36	0.16	
Fanö ...	29.70	43	W	4	C	29.67	+05	45	45	0	SW	4	C	*	40	41	-	
Bumburgh Head	29.37	46	W	3	o	29.36	+09	46	44	-1	W	3	C	4	51	41	0.04	
Stornoway ...	29.56	49	W	4	P	29.44	-02	44	43	-3	W	4	C	4	51	39	0.08	
Wick ...	29.51	48	W	5	bc	29.45	+02	48	45	-1	W	3	bc	2	53	39	0.03	
Nairn ...	29.57	48	W	1	bc	29.50	+02	44	41	-3	WSW	2	bc	1	54	41	0.06	
Aberdeen ...	29.61	52	WNW	4	bc	29.53	+02	48	42	-2	SW	2	bc	2	59	38	0.01	
Leith ...	29.69	52	WSW	4	bc	29.60	0.0	45	43	-3	WSW	2	P	*	56	42	-	
Shields ...	29.74	53	WSW	3	C	29.60	-09	49	45	0	2	0	m	2	56	41	-	
Spurn Head ...	29.82	50	W	4	C	29.66	-14	47	46	-1	SW	2	om	2	52	44	0.01	
York ...	29.84	54	W	4	bc	29.65	-16	47	46	-2	WSW	1	o	*	56	43	0.01	
Loughborough	29.91	50	WSW	2	o	29.69	-22	48	46	-2	SW	1	om	*	58	44	0.03	
Ardrossan ...	29.74	49	WNW	4	C	29.58	-12	46	45	-2	SW	3	of	3	53	44	0.04	
Malin Head ...	29.74	48	WSW	4	C	29.59	-12	43	43	-2	W	4	of	3	52	43	0.22	
Mullaghmore ...	29.79	49	SW	4	ogp	29.65	-22	46	44	-3	WSW	5	ofp	4	51	45	0.09	
Belmullet ...	29.79	48	WSW	3	ogp	29.68	-20	45	44	-3	WNW	4	o	*	51	44	0.12	
Donaghadee ...	29.79	53	WNW	3	C	29.63	-19	46	45	-3	WSW	4	o	2	59	45	0.01	
Liverpool (Bidston)	29.85	49	WSW	3	o	29.68	-21	47	45	-1	WSW	2	o	2	55	44	0.04	
Holyhead ...	29.85	48	SW	4	og	29.68	-26	48	47	-2	WNW	2	Cg	2	53	45	0.11	
Parsonstown ...	29.84	46	SW	1	P	29.72	-25	46	45	-2	2	0	of	*	54	39	0.12	
Valencia ...	29.77	49	ENE	3	Pm	29.81	-25	50	49	-1	W	3	o	3	53	46	0.24	
Roche's Point...	29.81	48	SW	4	P	29.79	-27	49	46	-2	NW	4	C	4	53	45	0.25	
Pembroke (St. Ann's Hd.)	29.93	48	SW	4	P	29.69	-38	49	47	0	NW	2	bc	4	50	46	0.39	
Seilly ...	29.96	51	SW	5	P	29.76	-41	50	49	-2	W	6	o	4	56	47	0.38	
Prawle Point ...	30.05	48	WSW	4	P	29.71	-42	50	50	0	W	5	ogw	3	52	45	0.56	
Jersey (St. Aubin's)	30.16	51	WSW	5	om	29.81	-40	52	52	+1	WSW	6	Pm	4	54	48	0.37	
Hurst Castle ...	30.04	49	WSW	6	mcg	29.69	-39	50	50	0	WSW	6	Cm	4	59	46	0.44	
Dungeness ...	29.98	49	W	6	Cp	29.65	-33	50	49	+1	W	3	fp	3	56	44	0.30	
London ...	29.98	53	SW	3	ou	29.67	-33	48	47	-3	2	0	om	*	58	44	0.13	
Oxford ...	29.95	49	SW	4	o	29.68	-32	46	45	-3	E	1	o	*	57	43	0.13	
Cambridge ...	29.92	52	W	1	o	29.67	-27	48	46	-2	E	1	d	*	60	44	0.03	
Yarmouth ...	29.87	54	WNW	4	bc	29.68	-19	46	45	-3	SW	4	Cv	3	57	44	0.01	
Cuxhaven ...	29.81	44	WNW	3	C	29.80	+05	43	42	-2	SW	3	C	*	50	42	-	
Berlin ...	29.90	46	W	3	bc	29.89	+05	47	44	-2	SW	4	bc	*	57	41	-	
Wiesbaden ...	*	*	*	*	*	29.97	-03	44	42	-7	2	0	P	*	55	37	0.04	
Munich ...	30.09	46	W	5	C	30.04	+01	44	41	-6	W	5	o	*	54	37	0.20	
The Helder ...	29.89	47	SW	2	C	29.75	-09	47	46	+1	SW	2	C	2	50	46	0.04	
Brussels (9 a.m.)	*	*	*	*	*	29.75	-26	45	44	-2	SE	3	o	*	53	44	0.20	
Cape Gris Nez	?	48	NW	6	o	?	?	48	48	+2	2	4	f	*	52	45	0.32	
Paris ...	30.15	54	WNW	3	C	29.82	-35	51	53	+6	SW	3	f	*	60	45	0.32	
Brest ...	30.15	51	SW	3	m	29.95	-26	53	50	+4	WNW	6	m	*	63	46	0.08	
Lorient ...	30.23	51	SW	3	P	29.94	-35	53	53	+3	WNW	6	m	6	58	48	0.16	
Rochefort ...	30.36	54	NW	4	P	30.15	-20	54	53	0	W	6	f	?	59	48	0.04	
Belfort ...	30.23	54	WNW	4	C	30.12	-07	47	46	-6	SE	1	P	*	60	45	-	
Nice ...	29.89	59	SW	4	C	29.88	-01	59	50	+2	NE	2	bc	*	71	50	-	
Perpignan ...	30.19	65	NW	5	C	30.15	-04	59	53	-4	NW	5	C	*	71	53	-	
Biarritz ...	30.40	55	W	3	f	30.20	-08	54	53	-1	W	5	P	3	59	52	0.04	
Corunna ...																		
Lisbon ...	30.36	63	N	5	C	30.40	+01	60	54	+1	N	3	C	5	73	55	-	

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

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

Thursday, 24th April

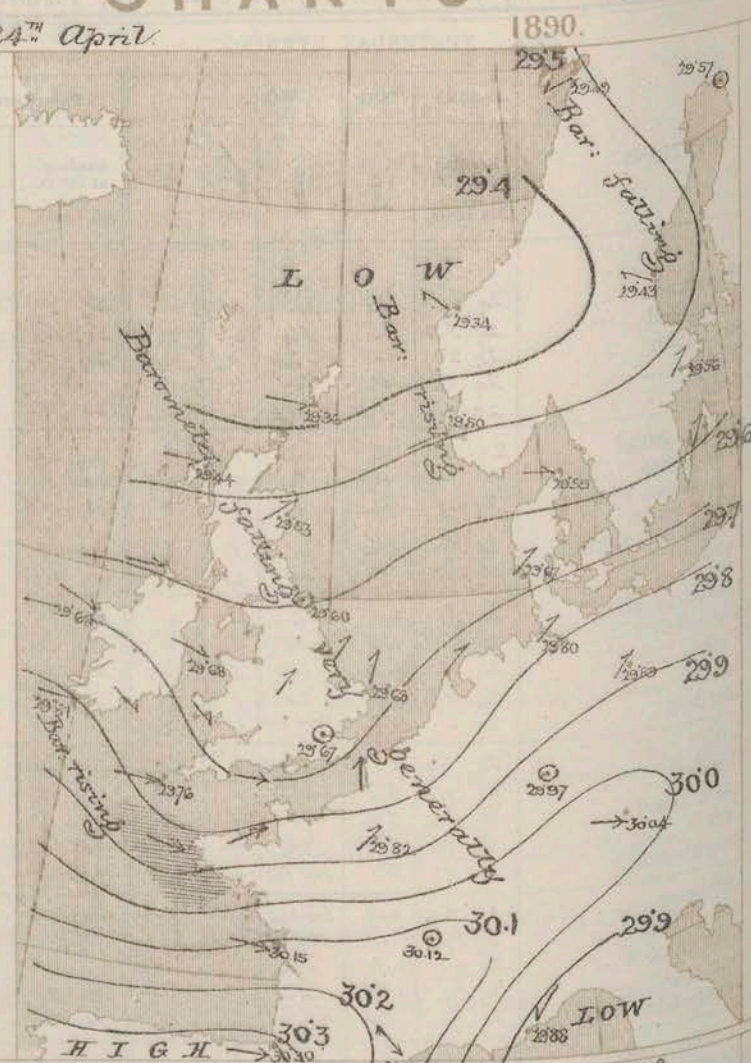
1890

EXPLANATION OF MAP.

Changes since previous morning are stated in words.

$\Rightarrow \Rightarrow$ = forces above 10; $\Rightarrow \rightarrow$ = forces 8 to 10;
 $\rightarrow \rightarrow$ = forces 5 to 7; \rightarrow = forces 1 to 4.
 \odot = dead atm.

at 8.0 a.m. for the month of April.
During the 15 Years: 1871—1885.

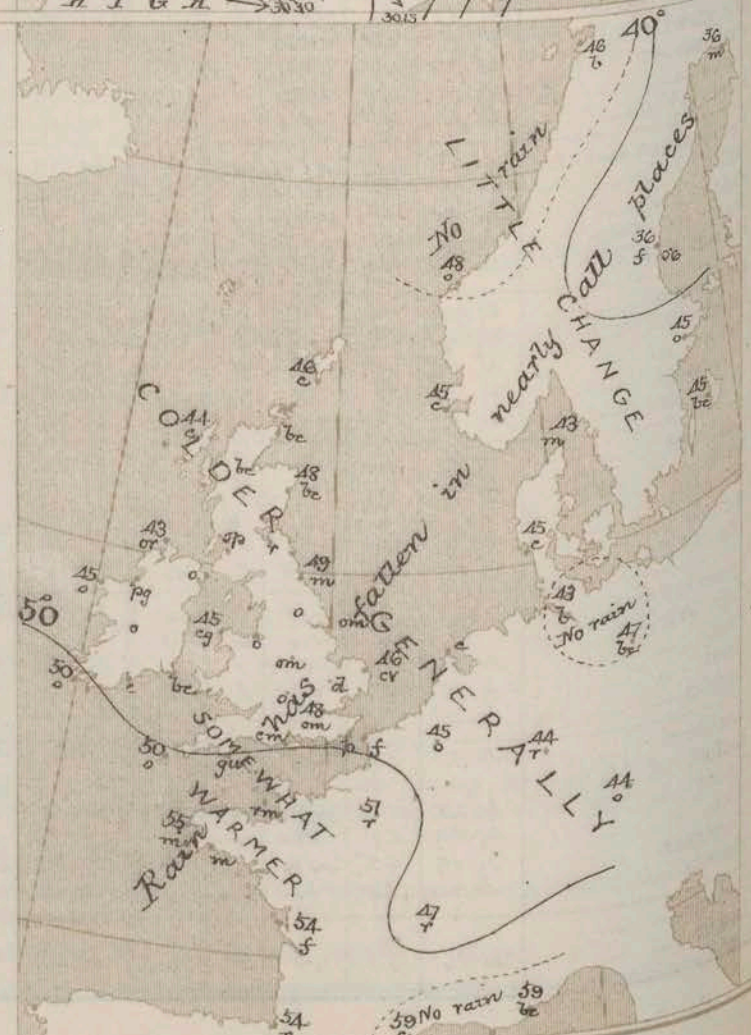


TEMPERATURE, & WEATHER AT 8 A.M.,
WITH RAINFALL IN PAST 24 HOURS.

WEATHER is shown by Letters of the Beaufort Scale.

(For the month of April.)

TEMPERATURE



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.40 in: at Lisbon; 30.3 in: and upwards, over the whole of the Iberian Peninsula.
 Lowest, 29.4 in: and less, in a large depression extending eastwards from the Atlantic over the central part of Norway. A shallow secondary system lying over England.
 Gradient rather steep over the northern parts of France and the Bay of Biscay, but slight elsewhere.
 Barometer falling generally, but rising on our extreme southern coast and also in the west of Norway.

TEMPERATURE

Highest, 60° at Leirbow, 59° at Puygnav and Nice, 55° at Brat, and 54° at Rochefort and Biscay.
 Lowest 36° at Koparanda and Hovisand, 41° at Jaender, 43° at Stagen and Lankhagen, and 44° at Somoway, Nams, Nilsbadon and Munich.
 The highest maxima registered over our Islands yesterday were 60° at Cambridge, and 59° at Aberdeen and Broughmuir.

WIND

W^{ly} over the greater part of our Islands and France. Strong in force over the Channel and Bay of Biscay.
 Moderate from the S.W. over the North Sea, Denmark, the Netherlands, the south of Scandinavia and the east of England.
 Light or moderate from the East in the north of Scandinavia.

WEATHER

Fine in the north of Scotland as well as at some of the Scandinavian and German stations.
 All elsewhere with mist or fog over the Bay of Biscay, the Channel and east of England and rain at several of the French stations.
 Solar halos were seen yesterday in the south of England and heavy rain fell in the same locality during the night.

SEA

Rough off the northwest of France, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The shallow depression over England will probably move eastwards and in its rear the weather is likely to improve.
 There are at present no indications of any new disturbance in the west, but conditions are not yet settled.

FORECASTS

For the 24 hours ending at NOON on 25th APRIL 1890.

DISTRICTS.

FORECASTS.

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

W^{ly} winds, moderate; fair generally but local showers.

SW^{ly} and W^{ly} winds, moderate; changeable, some rain.

Same as N°5.

SW^{ly} to W^{ly} winds, light or moderate, drizzle and misty at first, but improving later.

DISTRICTS.

FORECASTS

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

Same as N°1.

W^{ly} and NW^{ly} winds, moderate or fresh; fair generally, but local showers.

WARNINGS

The SOUTH CONE was hoisted yesterday in all districts excepting 0 and 1, but the signals have been lowered this morning.

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

YESTERDAY'S 2 P.M. REPORTS.

THER: WIND								THER: WIND							
BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA	
Skudesnaes ...	29.46	51	47	W	4	cf	4	Holyhead ...	29.93	51	47	W	5	c	5
Sumburgh Head ...	29.34	49	47	W	3	c	4	Valencia ...	29.96	52	51	SW	4	om	4
Stornoway ...	29.54	50	48	W	6	p	6	Scilly ...	30.13	51	50	SW	4	p	4
Aberdeen ...	29.56	56	46	W	5	bcg	3	Jersey ...	30.21	53	51	SW	5	og	4
Shields ...	29.74	54	48	W	5	bc	2	Dungeness ...	30.00	51	49	W	6	c	4
Ardrossan ...	29.75	53	48	W	4	bp	3	London ...	30.02	55	50	W	3	bc	3
Malin Head ...	29.77	51	47	W	5	c	3	Yarmouth ...	29.87	57	48	W	5	bc	3
Mullaghmore ...	29.86	51	47	W	5	om	4	Rochefort ...	30.38	58	53	NW	4	bc	3
Belmullet ...	29.86	50	46	W	3	o	*								

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

Weather in morning fine and bright over the greater part of our Islands and Northwestern Europe, but rather squally and showery in a few localities, dull and rainy over the Baltic, Eastern Russia, and Poland, dull and unsettled over the northern parts of the Mediterranean, but fine over Algeria. Becoming very unsettled over Ireland, England and France later, with rain in most places, Solar halo seen at many of our southern stations.

Temperature fallen a little over the western and northwestern countries. Morning values 60° to 67° on the southern shores of the Mediterranean, and exceeding 50° on the Atlantic coasts of France, Spain, and our Islands; below 40° over Northern Europe only—lowest reading of all being 35° at Archangel and Kharavanda, 36° at Kuopio, 37° at Helsingfors, and 39° at Helsinki. Rising during day to between 55° and 60° over England and France, falling subsequently in Ireland.

Wind W², moderate to strong in our Islands, W² moderate to light over the greater part of France, but NW², a gale at London. S² to SE³ over the Baltic, E² over the northern parts of Norway. Backing quickly on our southwestern coast later—to SSW at the mouth of the Channel, and to SE at Valencia, but not increasing in force.

Barometer in morning highest, 30.1 in: to about 30.4 in: in high pressure area spreading from Atlantic over Spain and the Bay of Biscay to France and the south of England, and 30.1 in: to 30.3 in: and more over Russia. Lowest 29.3 in: and less, in a depression near the Shetlands and 29.3 in: and less, in others over the Gulf of Genoa and Southeastern Europe. New depression approaching our southwestern coast later, barometer falling fast at Valencia, Scilly, and Brest.

EXPLANATION OF 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).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for

Friday, April 25th,

1890.

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 2.)	SHADE TEMP.		Amount of Rainfall.	
			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 ...	29.60	35	Z	0	0	29.58	+0.01	37	36	+1	SSE	2	0	*	39	30	0.04	
Hernösand ...	29.47	37	Z	0	0	29.52	+0.09	38	37	+2	Z	0	0	*	39	34	0.08	
Stockholm ...	29.56	39	S	2	6	29.55	-0.01	41	39	-4	SE	2	0	*	50	37	0.08	
Wisby ...	29.63	41	SSW	4	6	29.57	-0.06	47	44	+2	S	4	6	*	52	39	-	
Bodo ...	29.48	44	E	2	6	29.50	+0.01	44	42	-2	E	2	0	2	50	36	-	
CHRISTIANIA.																		
Christiansund ...	29.41	47	N	1	6	29.42	+0.08	45	42	-3	ENE	3	6	3	54	41	-	
Skudesnaes ...	29.45	42	SSW	2	6	29.45	-0.15	45	42	-3	ENE	1	6	3	50	41	-	
Christiania Fjord (Færd)	29.45	42	NW	5	6	29.43	-0.05	39	38	-2	ENE	2	6	2	43	36	-	
Skagen (The Scaw)	29.52	43	SW	1	6	29.48	-0.17	43	42	-1	SSE	1	6	0	54	39	-	
Faro ...	29.70	44	SW	2	7	29.28	-0.39	44	43	-1	SSW	2	6	*	50	43	0.08	
SCOTLAND.																		
Sumburgh Head	29.32	46	W	2	6	29.30	-0.06	42	41	-4	Z	0	0	2	49	35	0.09	
Stornoway ...	29.34	45	SW	4	6	29.28	-0.16	41	41	-3	W	5	6	4	48	37	0.08	
Wick ...	29.35	43	W	2	6	29.30	-0.15	45	42	-3	WNW	2	6	2	51	35	0.05	
Nairn ...	29.37	47	W	2	6	29.32	-0.18	43	41	-1	W	2	6	1	52	35	0.07	
Aberdeen ...	29.40	43	SE	1	ogph	29.34	-0.19	45	41	-3	WNW	2	6	2	54	34	0.25	
ENGLAND.																		
Leith ...	29.45	46	W	3	6	29.35	-0.25	46	42	+1	W	3	6	*	54	36	0.07	
Shields ...	29.46	50	WSW	2	6	29.35	-0.25	47	43	-2	WNW	3	6	2	50	34	0.21	
Spurn Head ...	29.49	48	WSW	2	0	29.34	-0.32	44	42	-3	N	4	6	2	51	40	0.02	
York ...	29.53	49	W	3	0	29.37	-0.28	43	40	-4	N	1	6	*	50	34	0.09	
Loughborough	29.58	50	WSW	1	6	29.36	-0.33	41	40	-7	WNW	3	6	*	54	37	0.05	
IRELAND.																		
Ardsrossan ...	29.49	48	WNW	4	6	29.38	-0.20	46	43	-3	Z	0	6	0	50	41	0.57	
Malin Head ...	29.50	42	W	5	6	29.39	-0.20	42	40	-1	WSW	3	6	2	49	40	0.12	
Mullaghmore ...	29.57	47	WSW	5	6	29.44	-0.21	45	43	-1	WSW	5	6	3	50	39	0.03	
Belmullet ...	29.60	47	W	2	6	29.46	-0.22	45	42	-3	W	2	6	*	49	38	0.06	
Donaghadee ...	29.55	50	W	3	6	29.42	-0.21	44	42	-2	W	4	6	2	51	41	0.05	
WALLES.																		
Liverpool (Bidston)	29.56	45	W	4	6	29.40	-0.28	45	43	-2	NNE	1	6	2	51	37	0.04	
Holyhead ...	29.60	46	WNW	3	6	29.42	-0.26	46	42	-4	N	3	6	2	50	39	0.06	
Parsonstown ...	29.61	48	WSW	1	6	29.52	-0.20	42	40	-4	Z	0	6	*	52	30	0.02	
Valencia ...	29.65	49	NW	1	om	29.60	-0.21	49	45	-4	NW	4	6	5	53	42	0.05	
Roche's Point ...	29.65	50	WNW	4	6	29.54	-0.25	45	42	-3	WNW	4	6	4	53	40	-	
SCOTLAND.																		
Pembroke (St. Ann's Hd.)	29.65	48	WSW	4	6	29.38	-0.31	45	43	-2	NNE	5	6	3	51	43	-	
Seilly ...	29.72	50	WSW	3	6	29.41	-0.35	46	45	-1	WNW	6	6	5	54	43	0.34	
Prawle Point ...	29.72	48	WSW	3	0	29.27	-0.44	43	43	-7	NNE	4	6	2	52	43	0.60	
Jersey (St. Aubin's)	29.79	50	W	6	0	29.33	-0.48	49	45	-4	WSW	7	6	5	54	45	0.33	
Hurst Castle ...	29.67	52	W	4	6	29.20	-0.49	48	47	-1	SW	3	6	3	54	45	0.51	
ENGLAND.																		
Dungeness ...	29.60	50	W	3	6	29.27	-0.38	44	44	-6	E	1	6	1	51	44	0.54	
London ...	29.61	52	WSW	1	6	29.25	-0.42	45	44	-3	E	3	6	*	54	44	0.08	
Oxford ...	29.59	48	W	4	6	29.28	-0.40	42	41	-4	NE	3	6	*	55	42	-	
Cambridge ...	29.54	49	NW	1	6	29.33	-0.34	44	42	-4	NE	1	6	*	55	41	0.02	
Yarmouth ...	29.57	46	S	3	6	29.31	-0.37	45	44	-1	NE	4	6	3	48	42	0.08	
FRANCE.																		
Cuxhaven ...	29.62	44	ENE	2	6	29.31	-0.39	45	44	+2	SW	2	6	*	50	45	0.36	
Berlin ...	29.68	51	SW	3	6	29.43	-0.46	51	49	+4	W	4	6	*	59	45	0.04	
Wiesbaden ...	*	*	*	*	*	29.47	-0.50	50	50	+6	Z	0	6	*	54	?	0.67	
Munich ...	29.79	45	SW	2	6	29.66	-0.38	55	50	+11	SW	5	6	*	55	?	0.51	
The Helder ...	29.54	45	N	1	6	29.32	-0.43	46	46	-1	SW	1	6	1	48	45	-	
NETHERLANDS.																		
Brussels (9 a.m.)	*	*	*	*	*	29.30	-0.45	47	47	+2	ENE	2	6	*	55	?	0.55	
Cape Gris Nez	?	48	W	2	6	?	?	45	44	-3	E	3	6	3	50	43	0.51	
Paris ...	29.77	59	WSW	3	6	29.41	-0.41	54	52	+3	SW	4	6	*	62	?	0.28	
Brest ...	29.83	55	SW	5	6	29.38	-0.57	49	46	-6	W	8	6	8	?	45	0.16	
Lorient ...	29.84	53	WSW	5	6	29.47	-0.47	50	45	-3	W	7	6	7	54	45	0.16	
FRANCE.																		
Rochefort ...	30.08	55	WSW	6	6	29.76	-0.39	51	50	-3	W	6	6	?	59	45	0.12	
Belfort ...	29.77	47	W	1	6	29.62	-0.36	57	48	+8	W	1	6	*	63	43	0.88	
Lyons ...	30.00	51	S	2	6	29.76	-0.36	55	51	+8	S	3	6	*	56	?	0.12	
Nice ...	29.83	62	W	4	6	29.78	-0.10	56	49	-3	W	2	6	0	?	?	0.04	
Perpignan ...	30.02	64	NW	5	6	29.91	-0.24	58	55	-1	W	1	6	*	71	50	-	
Biarritz ...	30.21	58	WSW	4	6	29.84	-0.46	60	54	+6	SW	3	6	5	59	52	-	
SPAIN.																		
Corunna ...	30.28	59	NW	4	6	30.12	-0.18	?	49	?	W	?	6	?	68	48	0.12	
Lisbon ...	*	*	*	*	*	30.23	-0.17	57	55	-3	WNW	3	6	?	72	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, 25th April.

1890.

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:

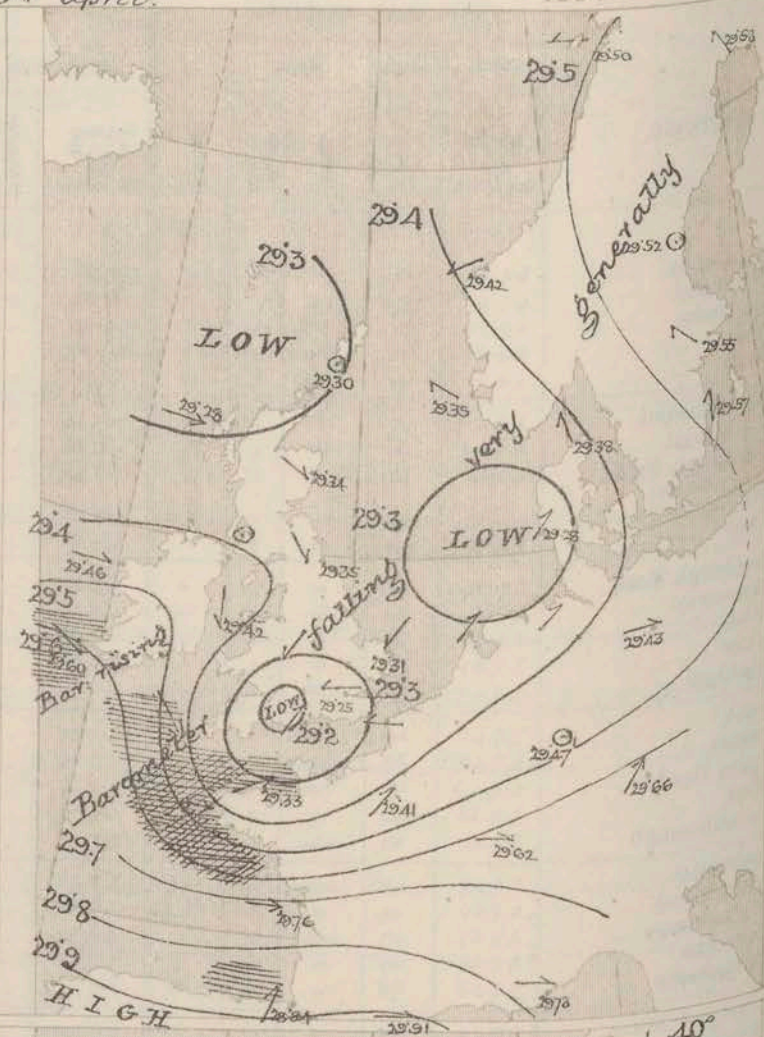
▨ = Rough; ▨ = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of April.

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.849
Stornoway	29.821
Wick	29.853
Nairn	29.853
Aberdeen	29.862
Leith	29.865
Shields	29.870
York	29.877
Loughborough	29.878
Androsan	29.857
Donaghadee	29.853
Holyhead	29.851
Liverpool	29.864
Parsonstown	29.853
Valencia	29.835
Roche's Point	29.838
Pembroke	29.844
Selly	29.849
Jersey	29.867
Hurst Castle	29.867
Dover	29.866
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.876



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.

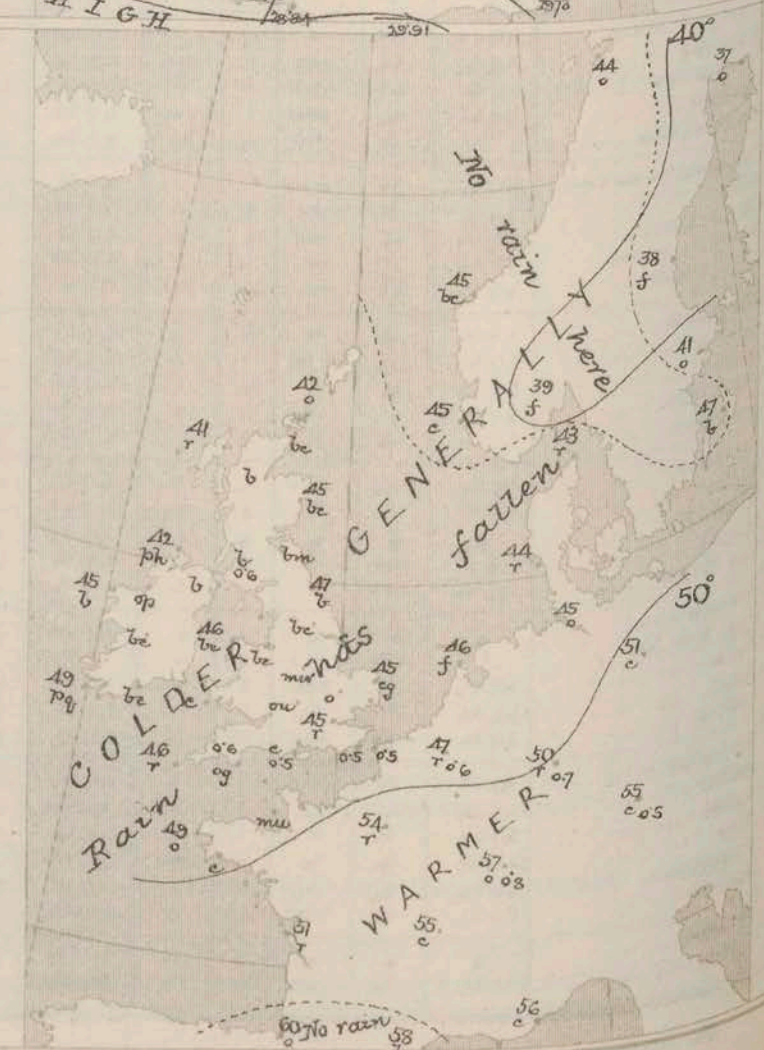
WEATHER—Is shown by Letters of the Beaufort Scale.

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 April.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	At 8 a.m. Dry.	Wet.	
Sumburgh Head	49.3	37.3	41.2	40.5	2.15
Stornoway	49.3	37.6	41.1	42.3	2.61
Wick	49.2	37.4	43.2	41.2	1.56
Nairn	51.5	37.9	43.1	40.6	1.23
Aberdeen	49.6	36.5	43.4	40.9	2.23
Leith	52.6	38.2	44.2	42.1	1.60
Shields	49.2	39.2	43.8	41.7	1.94
York	54.1	37.8	41.1	42.0	1.86
Loughborough	55.7	38.3	45.1	42.6	1.77
Androsan	52.1	39.0	44.0	42.2	2.23
Donaghadee	51.3	40.1	44.8	43.2	2.02
Holyhead	51.9	42.4	46.2	44.2	1.86
Liverpool	53.0	40.2	45.5	42.6	1.60
Parsonstown	55.0	38.3	45.7	43.0	2.15
Valencia	54.3	42.9	48.4	45.0	4.01
Roche's Point	54.2	42.4	47.0	44.9	3.43
Pembroke	50.8	42.1	45.6	43.8	2.10
Selly	52.5	45.0	49.0	47.1	2.45
Jersey	54.6	45.6	49.0	46.4	2.04
Hurst Castle	52.3	41.4	45.9	41.0	1.87
Dover	51.5	42.4	47.1	44.5	1.81
LONDON	50.7	40.0	46.8	43.8	1.86
Oxford	53.1	39.3	45.0	42.7	1.79
Cambridge	50.2	37.7	45.5	43.3	1.73
Yarmouth	49.5	40.4	45.1	43.4	1.80

NOTE.—The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 20 years 1866-85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.2 in. to 29.8 in. over the Spanish Peninsula and the southwest of France; 29.5 in. and more over Sweden.
 Lowest, 29.3 in. and less, in shallow depressions lying off our northern coast and over the North Sea; 29.2 in. in a smaller but deeper depression lying over the Irish and apparently moving eastwards.
 Gradients rather steep off our southern coast and over Brittany moderate to slight elsewhere.
 Barometer rising in southwest and west, falling in the east and north.

TEMPERATURE

Highest, 60° at Biarritz, 58° at Brest, 57° at London and Belfast, and 54° at Paris.
 Lowest, 37° at Capo Verde, 42° at Stirling Head, Larnestown and Oxford, 44° at Spurn Head, and 45° in London.
 It has fallen decidedly in our Islands, risen in France.

WIND

Very light and variable at the northern stations; light to moderate from N.W. over England, rather strong on our southwest coast.
 Strong to a gale from W. in the west and northwest of France.
 At Scilly the wind is increasing.

WEATHER

Cloudy and very changeable. Rain is falling very generally at the southern stations, the fall having been considerable over our southern counties.

SEA

Rather rough on our side of the Channel, high on the coast of Brittany, slight at our northern stations.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Very unsettled weather is still probable, with a good deal of rain, but some bright intervals.

FORECASTS

For the 24 hours ending at NOON on 26th APRIL. 1890.

DISTRICTS.

FORECASTS.

DISTRICTS.

FORECASTS

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

Varying W^{ly} winds; unsettled, rain at times

Same as N^o 5.

Wind becoming N^{ly} and NW^{ly}; much rain. Then clear, and a good deal colder.

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

W^{ly} and NW^{ly} breezes; colder, some rain.

NW^{ly} winds, rather strong; rainy to fair, cold.

Same as N^o 6 and 7.

NW^{ly} winds, backing; cold, changeable. Some showers.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.50	50	46	SW	4	bc	6	Holyhead ...	29.63	49	47	WSW	4	cpm	4
Sumburgh Head ...	29.35	48	45	W	2	b	3	Valencia ...	29.78	51	46	WNW	4	0	4
Stornoway ...	29.39	43	43	W	4	r	4	Scilly ...	29.80	51	49	WNW	4	0	5
Aberdeen ...	29.41	51	46	SE	3	cp	3	Jersey ...	29.80	53	52	W	6	0	3
Shields ...	29.51	45	45	W	0	T	2	Dungeness ...	29.58	50	49	WSW	4	0 p	8
Ardrossan ...	29.52	47	45	WNW	3	c	3	London ...	29.63	53	49	W	3	0 p	3
Malin Head ...	29.54	48	43	W	5	b	3	Yarmouth ...	29.61	48	46	S	4	0	?
Mullaghmore ...	29.63	50	45	W	6	bc	4	Rochefort ...	30.13	57	55	W	6	0	
Belmullet ...	29.67	47	42	WNW	3	bc	*								

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

Weather fine in the north of Scotland and at some of the Scandinavian and German stations, as well as in Algeria, and the southern parts of Spain and Italy. Dull elsewhere with fog or mist over the Bay of Biscay, the Channel and the east of England, as well as in Finland, and rain at several of the French and German stations. Rain falling during day in nearly all parts of Western Europe, and hail showers in Scotland and the north of Ireland.

Temperature highest 66° at Algiers, 64° at Barcelona, 63° at Nemours and Oren, 62° at San Fernando and Rindisi, and 60° at Bilbao, Courmou, Lisbon, Malta and Sfax; above 50° at most of the French stations. Lowest 36° at Haparanda and Helsingfors, 37° at Helsingfors, 38° at Helsingfors, 39° at Helsingfors and 40° at Helsingfors; below 40° in some parts of Scotland and the north of Ireland. Daily maxima over our Islands mostly below 55°, but thermometer exceeding 60° at some of the French stations.

Wind W³ over the greater part of our Islands and France, light or moderate in force generally, but strong over the Channel and Bay of Biscay. SW³ over the North Sea, Denmark, the Netherlands, North Germany, the Baltic, and the south of Scandinavia; S⁴ at most of the Russian stations. N⁴ or NW⁴ over the greater part of Southern Europe and the Mediterranean, but S⁴ in Algeria. Subsequently veering to the N⁴ in the south of Ireland, but backing to the SW⁴ at the mouth of the Channel.

Barometer highest, 30.4 ins. and upwards in an anticyclone lying to the westward of the Iberian Peninsula; high, 30.2 ins. and upwards in another lying over central Russia. Lowest 29.4 ins. and less, in a depression extending eastwards from the Atlantic to the central parts of Norway; shallow secondary disturbance lying over England. Depression in far north subsequently travelling away in a northerly direction and secondary system moving eastwards to the North Sea, but new disturbance beginning to show itself off our extreme southwest coast.

EXPLANATION OF 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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DAILY WEATHER REPORT.

for

Saturday, 26th April,

1890.

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 3 ³⁰ P. and Sea Level.	Dry.	Dir.	Force. (0 to 12.)		Reading at 3 ³⁰ P. 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 ...	29.65	35	Z	0	0	29.75	+ 17	35	84	- 2	Z	0	0	*	37	32	0.04	
Hernösand ...	29.65	35	Z	0	0	29.75	+ 23	35	34	- 3	NE	2	0	*	45	34	0.00	
Stockholm ...	29.55	41	SE	4	0	29.41	- 14	42	41	+ 1	E	6	1	*	52	37	0.12	
Wisby ...	29.47	43	SE	4	1	29.36	- 21	46	48	- 1	SSE	4	1	*	55	37	0.12	
Bodo ...	29.57	44	SW	2	0	29.71	+ 21	38	37	- 6	N	2	0	1	48	37	0.00	
CHRISTIANIA.																		
Christiansund ...	29.47	46	NE	5	6	29.60	+ 18	45	41	0	ENE	6	6	3	52	43	0.00	
Skudesnaes ...	29.36	46	NW	2	0	29.37	+ 02	51	43	+ 6	NW	4	0	3	?	43	0.00	
Christiania Fjord ...	29.40	42	N	3	0	29.23	- 20	40	39	+ 1	NNE	7	1	3	43	?	0.43	
Skagen (The Scaw) ...	29.26	43	E	3	0	29.09	- 20	43	43	0	E	3	0	3	46	39	0.47	
Faro ...	29.16	44	NW	2	1	29.27	- 01	44	43	0	NW	4	0	*	50	43	0.20	
BRITISH ISLANDS.																		
Sunburgh Head ...	29.39	42	Z	0	bc	29.61	+ 31	47	44	+ 5	NNE	3	6	3	47	38	0.11	
Stornoway ...	29.40	45	E	4	0	29.75	+ 47	47	45	+ 6	NE	4	0	4	48	36	0.04	
Wick ...	29.41	44	SW	2	c	29.70	+ 40	46	45	+ 1	N	2	cp	2	47	36	0.35	
Nairn ...	29.39	44	ESE	1	c	29.69	+ 37	45	43	+ 2	NNE	4	0	3	55	41	0.06	
Aberdeen ...	29.39	43	ESE	2	c	29.62	+ 28	45	43	0	NW	4	cp	3	50	37	0.03	
IRISH ISLANDS.																		
Leith ...	29.39	47	E	2	0	29.65	+ 30	45	42	- 1	N	2	c	*	55	34	0.11	
Shields ...	29.39	44	SW	2	bc	29.58	+ 23	47	44	0	NW	4	c	2	50	36	0.00	
Spurn Head ...	29.39	46	NW	2	bc	29.57	+ 23	44	42	0	NW	3	bc	1	47	38	0.00	
York ...	29.38	48	WSW	1	bc	29.58	+ 21	43	41	0	N	1	b	*	55	34	0.00	
Loughborough ...	29.40	50	NW	3	c	29.58	+ 22	44	42	+ 3	NW	1	ogmw	*	54	32	0.00	
SCOTLAND.																		
Ardrossan ...	29.39	49	NW	3	c	29.67	+ 29	50	44	+ 4	N	3	6	2	53	39	0.00	
Malin Head ...	29.43	47	NW	4	bc	29.72	+ 33	46	43	+ 4	N	5	bc	3	49	41	0.11	
Mullaghmore ...	29.49	48	NW	5	bc	29.76	+ 32	46	43	+ 1	N	6	bc	4	50	41	0.16	
Belmullet ...	29.55	49	NW	3	c	29.84	+ 38	50	47	+ 5	N	6	bc	*	50	42	0.08	
Donaghadee ...	29.43	48	W	2	c	29.68	+ 26	47	45	+ 3	NNE	3	6	2	52	43	0.02	
ENGLAND.																		
Liverpool (Bidston) ...	29.44	48	W	4	b	29.60	+ 20	45	43	0	SSE	1	c	2	50	40	0.14	
Holyhead ...	29.46	46	SW	3	bc	29.62	+ 20	47	45	+ 1	N	4	cp	3	52	43	0.09	
Parsonstown ...	29.50	47	NW	1	c	29.74	+ 22	45	42	+ 3	NW	2	bc	*	54	41	0.02	
Valencia ...	29.64	48	NW	5	cp	29.85	+ 25	50	46	+ 1	N	6	cp	5	52	44	0.29	
Roche's Point ...	29.52	47	NW	5	bc	29.72	+ 18	48	44	+ 3	NW	6	bc	4	53	43	0.15	
IRELAND.																		
Pembroke (St. Ann's Hd.) ...	29.50	48	W	4	bc	29.63	+ 25	46	44	+ 1	NW	3	cp	3	50	43	0.00	
Seilly ...	29.61	49	NW	5	c	29.63	+ 22	48	46	+ 2	NW	5	cp	5	50	41	0.11	
Prawle Point ...	29.57	46	NW	4	c	29.60	+ 33	49	46	+ 6	NW	3	bc	2	49	40	0.13	
Jersey (St. Aubin's) ...	29.52	49	NW	5	cp	29.60	+ 27	46	44	- 3	W	4	bc	3	53	43	0.17	
Hurst Castle ...	29.46	49	NNE	2	cp	29.58	+ 38	47	45	- 1	WSW	3	c	4	49	39	0.15	
FRANCE AND BELGIUM.																		
Dungeness ...	29.36	43	WSW	3	0	29.56	+ 20	44	41	0	NW	3	6	2	47	34	0.52	
London ...	29.41	49	NW	3	bc	29.58	+ 33	46	42	+ 2	NW	1	6	*	49	34	0.66	
Oxford ...	29.48	45	NW	2	b	29.59	+ 31	43	42	+ 1	Z	0	cp	*	51	36	0.02	
Cambridge ...	29.40	47	NNE	1	0	29.58	+ 25	47	43	+ 3	NW	1	6	*	51	32	0.02	
Yarmouth ...	29.35	46	N	3	c	29.55	+ 24	45	43	0	NW	2	6	2	47	35	0.00	
NETHERLANDS.																		
Cuxhaven ...	29.12	43	ENE	5	1	29.34	+ 03	43	42	- 2	W	5	bc	*	50	42	0.60	
Berlin ...	29.30	55	W	4	1	29.49	+ 06	50	47	- 1	SW	3	0	*	57	46	0.08	
Wiesbaden ...	*	*	*	*	*	29.47	+ 00	46	43	- 4	SW	2	0	*	57	45	0.28	
Munich ...	29.63	44	W	6	1	29.64	- 02	41	39	- 14	SE	6	0	*	64	37	0.63	
The Helder ...	29.32	44	NW	2	c	29.50	+ 18	44	42	- 2	NW	2	bc	3	46	43	0.00	
GERMANY.																		
Brussels (9 a.m.) ...	*	*	*	*	*	29.60	+ 30	46	43	- 1	W	2	c	*	53	41	0.32	
Cape Gris Nez ...	?	44	N	4	0	?	?	44	42	- 1	W	2	c	2	48	41	0.64	
Paris ...	29.36	48	SSE	3	1	29.68	+ 27	43	42	- 11	SW	1	c	*	57	41	0.47	
Brest ...	29.69	50	NW	7	c	29.70	+ 32	46	44	- 3	NW	4	m	6	55	43	0.16	
Lorient ...	29.70	50	NW	8	c	29.68	+ 21	46	42	- 4	NW	5	c	6	52	45	0.12	
SPAIN.																		
Rochefort ...	29.75	51	NW	9	0	29.76	+ 00	47	47	- 4	NW	4	1	?	55	46	0.16	
Belfort ...	29.49	44	W	1	0	?	?	42	35	- 15	W	1	0	*	63	40	0.00	
Lyons ...	29.69	50	SSW	3	0	29.80	+ 04	46	42	- 9	WSW	2	c	*	64	39	0.08	
Nice ...	29.62	55	SSW	4	c	29.54	- 24	55	41	- 1	NW	5	6	2	68	48	0.00	
Perpignan ...	29.84	51	NW	6	0	29.91	+ 00	50	44	- 8	NW	4	6	*	67	46	0.00	
Barritz ...	29.94	51	NW	7	1	29.88	+ 04	48	48	- 12	WSW	7	1	?	?	45	0.24	
PORTUGAL.																		
Corunna ...	30.27	52	N	5	6	30.30	+ 07	51	47	- 6	NNE	3	bc	3	61	48	0.00	
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

Saturday, 26th April.

1890.

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:

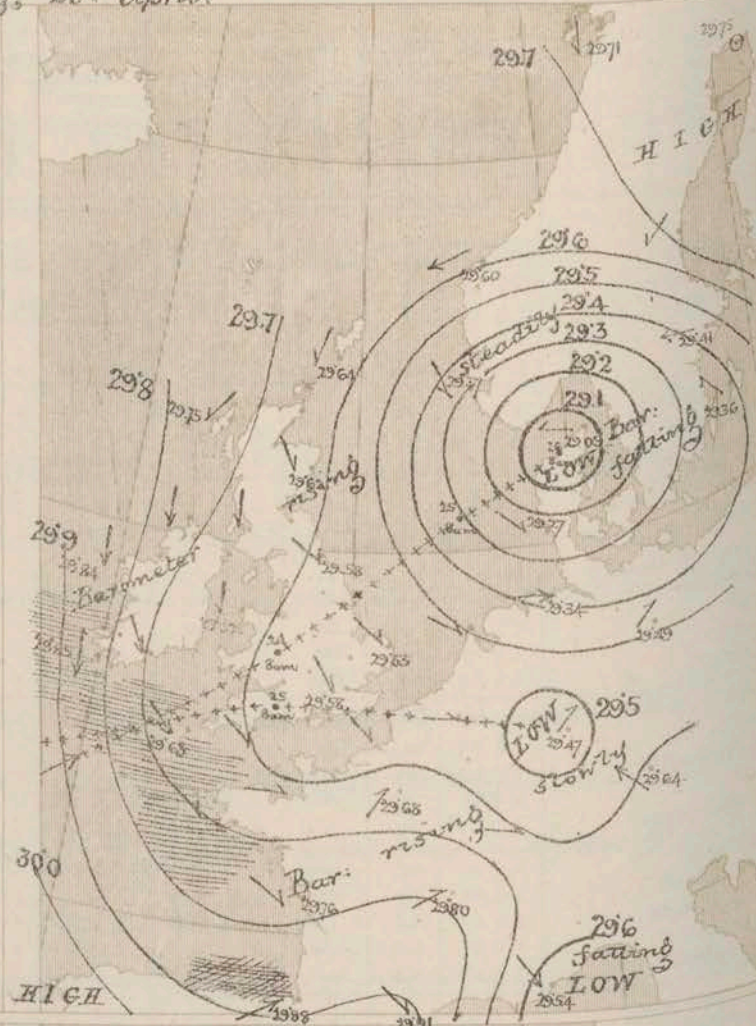
☰ = Rough. ☱ = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of April.

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.849
Stornoway	29.821
Wick	29.853
Nairn	29.853
Aberdeen	29.862
Leith	29.865
Shields	29.870
York	29.877
Loughborough	29.878
Ardrossan	29.857
Donaghadee	29.853
Holyhead	29.851
Liverpool	29.861
Parsonstown	29.853
Valencia	29.835
Roch's Point	29.838
Pembroke	29.844
Silly	29.849
Jersey	29.867
Hurst Castle	29.867
Dover	29.866
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.870



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.

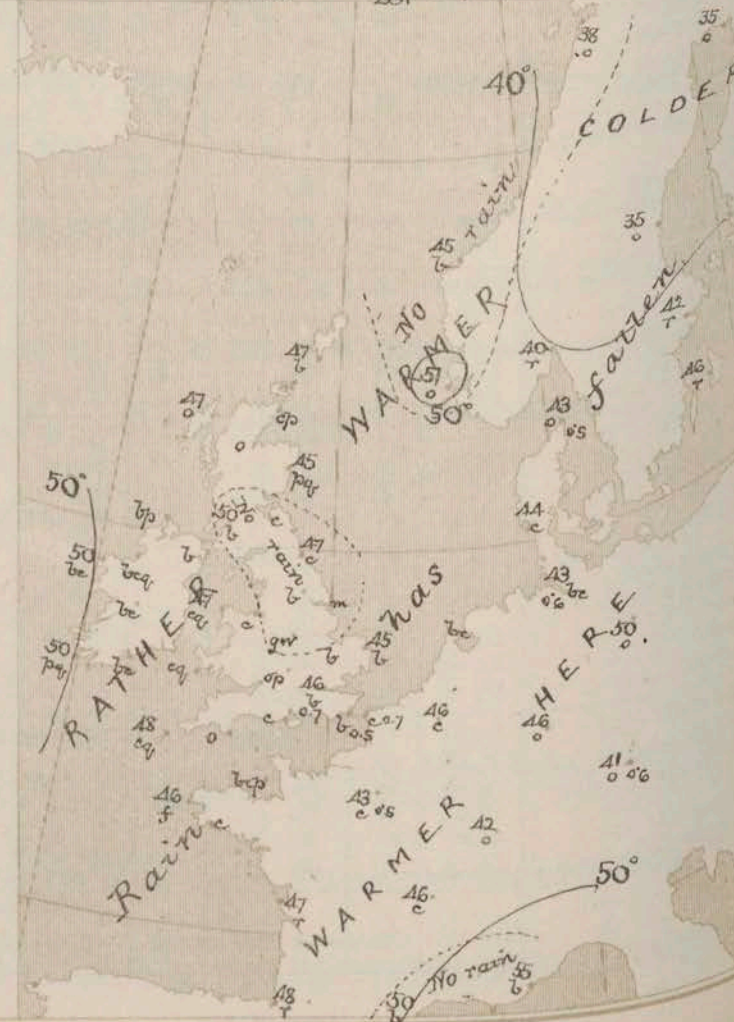
RAINFALL—A dotted line separates the districts in which rain has fallen, from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL

(For the month of April.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	MEAN 24 HOURS.	W. 8 A.M.	
Sumburgh Head	40.5	37.3	41.0	40.5	2.16
Stornoway	40.1	37.5	41.1	42.3	2.51
Wick	49.2	37.4	43.2	41.2	1.50
Nairn	51.5	37.9	43.1	40.6	1.23
Aberdeen	49.6	38.5	43.4	40.9	2.23
Leith	51.0	38.3	44.2	42.1	1.65
Shields	49.2	39.2	43.8	41.7	4.94
York	54.1	37.8	44.1	42.0	1.86
Loughborough	55.7	38.3	45.1	42.0	1.77
Ardrossan	52.1	39.9	44.0	42.2	2.25
Donaghadee	51.3	40.1	44.8	43.2	2.02
Holyhead	51.9	42.4	46.2	44.2	1.86
Liverpool	55.0	40.7	45.5	42.0	1.56
Parsonstown	55.0	38.3	45.7	43.0	2.15
Valencia	54.3	42.9	48.4	45.9	4.91
Roch's Point	54.2	42.4	47.0	44.9	3.43
Pembroke	50.8	42.1	45.6	43.6	2.10
Silly	52.5	45.0	48.0	47.1	2.45
Jersey	54.6	43.6	49.0	48.4	2.04
Hurst Castle	52.3	41.4	45.9	44.6	1.87
Dover	51.5	42.4	47.1	44.5	1.81
LONDON	56.7	40.0	48.8	43.8	1.86
Oxford	55.1	39.3	45.0	42.7	1.79
Cambridge	56.2	37.7	45.5	43.3	1.76
Yarmouth	49.6	40.4	45.1	43.4	1.80

NOTE—The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 20 years 1866-85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 29.6 in. to 29.8 in. and more, over the northern and eastern parts of the British Islands, 29.2 in. to 30.3 in. over the Spanish Peninsula, 29.7 in. and more over England and Ireland.
 Lowest, 29.1 in. and less, in a depression over the Sound, and 29.5 in. and less, in another near Hirtland.

Gradients moderate for N. winds in our Islands, slightly steep over some parts of the North Sea.

Barometer rising over the United Kingdom, falling over Sweden and the Baltic.

TEMPERATURE

Highest, 55° at Nice, 51° at Lisbon and St. Petersburg, 50° at Bismarck, Palermo and Berlin.

Lowest, 35° at Copenhagen and Helsingfors, 40° at the Sound, 43° at York and Paris, and 45° at several other stations.

It has been as low as 32° to 34° in the shade at our inland stations during the night, and 24° on the grass in the south of London.

WIND

N. (N.E. to N.W.) over our Islands, light at the eastern stations, moderate to strong in the west.

N.W., moderate over the Bay of Biscay. W. to S.W. over North Germany.

E. to N. over Scandinavia.

WEATHER

Fair over the greater part of our Islands, but showery locally, and not settled; cloudy elsewhere, with rain very generally in the south of Sweden and west of France. Rainfall yesterday morning was heavy at the southeastern stations (1.15 in. near Sittingbourne). Hail was seen in many parts of England yesterday; thunder and lightning occurred in the southeast of France.

SEA

Very rough over the Bay of Biscay, moderate to smooth on our coasts, slight at Holyhead, smooth at Bangor.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Fair weather, but with local showers, seems likely to prevail today, followed by a very cold bright night.

FORECASTS

For the 24 hours ending at NOON on 27th APRIL 1890.

DISTRICTS.

FORECASTS.

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

N. and N.W. breezes, moderate, slight showers, bright intervals, cold.

Same as No 5

N.W. and N. breezes, light or moderate; slight showers, clear and cold tonight.

DISTRICTS.

FORECASTS

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

Wind N. moderate; fair as a whole. Very cold tonight.

WARNINGS

NONE ISSUED.

Key.—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 ...	29.36	49	44	NW	3	0	2		Holyhead ...	29.45	51	45	NW	1	5
Sumburgh Head ...	29.35	42	41	2S	0	0	2		Valencia ...	29.58	49	47	WNW	5	5
Stornoway ...	29.33	44	43	NE	4	0	4		Scilly ...	29.57	50	46	NW	6	5
Aberdeen ...	29.35	45	41	S	2	c	2		Jersey ...	29.35	44	42	WNW	6	3
Shields ...	29.35	47	43	N	2	c	2		Dungeness ...	29.28	42	41	NNE	4	4
Ardrossan ...	29.37	50	46	S	2	b	1		London ...	29.33	47	44	WNW	2	4
Malin Head ...	29.38	47	45	W	3	c	2		Yarmouth ...	29.30	47	44	N	2	4
Mullaghmore ...	29.43	46	44	W	5	0	4		Rochefort ...	29.71	54	48	W	9	0
Belmullet ...	29.47	49	45	NW	4	bc	*								

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

Weather fine in the west and north of our Islands, as well as over Southern Europe, the Mediterranean, and some parts of Germany and Austria. Dull elsewhere with fog over Finland and some parts of Scandinavia and Holland, and steady rain in Denmark, France, and the southeast of England. Showers of rain or hail falling later in the western and northern parts of the United Kingdom, but weather improving in southern. Solar halos seen in the south of England in evening.

Temperature highest, 71° at Algiers, 70° at Oran, 67° at Palma and Nemours, 64° at La Calle, and 63° at Rindiv; reading above 55° in most parts of Southern Europe. Lowest 36° at Hango, 37° at Haparanda and Kuopio, 38° at Hernö and, 39° at Helsingfors, and 40° at Narva; below 45° in nearly all the more central parts of the United Kingdom. Daily maxima below 50° in many parts of England, but thermometers exceeding 65° in the south of France.

Wind light or moderate from the Wnd in the northern parts of the United Kingdom, and strong from the same quarter over the Bay of Biscay and the southern part of the Channel, but NW^{ly} in the south of Ireland, and N^{ly} or NE^{ly} over England. Light from between E and S. over Scandinavia, Russia and the Baltic, moderate from the SWnd over Central Europe. Chiefly W^{ly} in Spain and Italy, and S^{ly} in Algeria. Subsequently backing to the SWnd in the north of England, and shifting to the End in Scotland.

Barometer highest, 30.2 ins: and upwards, in an anticyclone lying to the westward of Portugal, 30.0 ins: and upwards in a larger system lying over Russia. Lowest, 29.2 ins: and less, in a small, but well marked depression lying over Nithshire, low 29.3 ins: and less, in two other systems lying respectively over the eastern parts of the North Sea and to the northward of Scotland. Depression over Nithshire subsequently moving eastwards and filling up; North Sea disturbance moving northwards and becoming deeper.

EXPLANATION OF 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).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Sunday 27th April 1890.
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.	
			Force. (0 to 12.)	Dirce.		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.		
	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 ...	29.92	38	NNE	2	f	29.86	+ .11	38	37	+ 3	ENE	2	0	*	?	32	0.08	
Hernösand ...	29.67	27	NE	8	r	29.84	+ .09	41	40	+ 6	Z	0	f	*	41	34	0.39	
Stockholm ...	29.64	41	S	2	o	29.87	+ .46	45	42	+ 3	Z	0	0	*	57	39	0.20	
Wisby ...	29.68	43	S	4	bc	29.85	+ .49	44	43	- 2	S	2	0	*	52	41	—	
Bodo ...	29.89	41	N	2	c	29.90	+ .19	44	38	+ 6	NE	2	0	1	61	34	—	
CHRISTIANIA.																		
Christiansund	29.67	43	NE	8	f	29.70	+ .10	44	42	- 1	ENE	5	0	4	48	41	—	
Skudesnaes ...	29.41	47	N	2	c	29.62	+ .25	46	44	- 5	Z	0	0	2	52	41	—	
Christiania Fjord (Færder)	29.38	42	SSE	3	o	29.70	+ .47	43	42	+ 3	SSE	4	0	2	43	41	0.24	
Skagen (The Scaw)	29.47	42	W	2	o	29.69	+ .60	45	43	+ 2	SSW	2	c	1	48	41	0.04	
Faenø ...	29.50	44	W	4	c	29.69	+ .42	44	43	0	SW	4	c	*	48	43	—	
SCOTLAND.																		
Sumburgh Head	29.72	45	NNE	5	o	29.85	+ .24	45	42	+ 2	N	5	c	6	51	37	—	
Stornoway ...	29.91	48	NE	5	o	30.03	+ .28	46	44	- 1	NE	3	bc	4	52	36	0.02	
Wick ...	29.83	45	N	4	c	29.96	+ .26	44	40	- 2	N	3	0	2	53	39	0.05	
Nairn ...	29.84	48	NE	5	o	29.99	+ .30	43	42	- 2	NNE	5	c	4	51	41	0.03	
Aberdeen ...	29.76	47	NNW	5	c	29.92	+ .30	44	39	- 1	NNW	6	cgn	5	51	40	0.04	
ENGLAND.																		
Leith ...	29.79	49	NE	1	c	29.96	+ .31	48	43	+ 3	NE	1	c	*	56	40	0.19	
Shields ...	29.74	47	NW	3	bc	29.91	+ .33	44	42	- 3	NNW	3	c	4	50	40	0.01	
Spurn Head ...	29.69	47	N	4	c	29.87	+ .30	44	48	0	NNW	5	cp	3	49	42	0.06	
York ...	29.74	49	N	1	c	29.93	+ .35	46	42	+ 3	N	3	0	*	55	39	—	
Loughborough	29.73	51	NNW	2	c	29.94	+ .36	47	43	+ 3	NNW	3	c	*	54	39	0.01	
IRELAND.																		
Ardrossan ...	29.82	52	WNW	3	b	29.99	+ .32	49	45	- 1	WNW	3	b	2	56	40	—	
Malin Head ...	29.89	48	NNW	5	b	30.05	+ .33	48	44	+ 2	N	3	b	2	49	45	—	
Mullaghmore ...	29.97	49	NNW	6	bc	30.08	+ .32	48	45	+ 2	NW	4	b	2	52	42	—	
Belmullet ...	30.03	50	NNE	4	bc	30.09	+ .25	49	47	- 1	NE	1	b	*	53	39	0.06	
Donaghadee ...	29.85	51	NNE	4	b	30.02	+ .34	49	46	+ 2	NNE	3	b	2	54	46	—	
Wales.																		
Liverpool (Bidston)	29.80	49	NNW	3	c	29.97	+ .37	48	45	+ 3	NW	2	bc	2	53	44	—	
Holyhead ...	29.84	48	N	4	bc	30.01	+ .39	49	46	+ 2	N	4	b	3	50	45	—	
Parsonstown ...	29.94	53	NW	2	bc	30.11	+ .37	45	43	0	Z	0	b	*	55	33	—	
Valencia ...	30.05	52	NNW	5	bc	30.13	+ .28	49	45	- 1	NNW	1	bc	2	54	45	—	
Roche's Point...	29.92	55	NNW	5	bc	30.09	+ .37	47	43	- 1	NNW	4	b	4	57	41	—	
France.																		
Pembroke (St. Ann's Hd.)	29.83	48	N	5	b	30.01	+ .38	47	46	+ 1	N	5	bp	3	51	43	0.02	
Scilly ...	29.84	48	N	5	bc	30.02	+ .39	49	47	+ 1	NNW	5	bc	4	49	42	0.06	
Prawle Point ...	29.87	46	NE	5	o	29.99	+ .39	51	49	+ 2	N	3	b	2	53	39	0.14	
Jersey (St. Aubin's)	29.68	47	NNW	4	bc	29.96	+ .36	50	47	+ 4	NNW	4	bcn	3	51	44	0.08	
Hurst Castle ...	29.71	50	NE	3	bc	29.96	+ .38	47	45	0	NNE	2	cm	4	53	40	0.02	
Germany.																		
Dungeness ...	29.69	46	NNE	4	c	29.88	+ .32	47	43	+ 3	N	2	m	1	53	37	0.01	
London ...	29.69	46	N	2	cm	29.91	+ .33	45	42	- 1	NNW	2	bc	*	58	34	0.22	
Oxford ...	29.80	44	WNW	1	r	29.96	+ .37	46	42	+ 3	NW	2	bc	*	52	39	0.09	
Cambridge ...	29.73	46	N	1	r	29.91	+ .33	49	45	+ 2	N	2	0	*	51	36	0.05	
Yarmouth ...	29.68	49	N	3	b	29.84	+ .29	45	42	0	NW	3	c	3	51	40	0.05	
Holland.																		
Cuxhaven ...	29.62	43	W	3	c	29.74	+ .40	44	43	+ 1	SW	2	c	*	49	42	0.04	
Berlin ...	*	*	*	*	*	29.82	+ .35	44	42	- 2	NW	1	c	*	54	37	—	
Wiesbaden ...	29.76	40	W	2	bc	29.84	+ .20	40	39	- 1	NW	2	r	*	50	38	0.08	
Munich ...	29.68	44	WNW	2	c	29.79	+ .29	46	45	+ 2	W	1	c	2	48	44	—	
Belgium.																		
Brussels (s.a.m.)	29.85	46	42	0	NNW	2	c	*	53	41	0.08							
Cape Gris Nez	?	46	NW	3	c	?	46	45	+ 2	N	2	b	2	54	43	—		
Paris ...	29.67	50	SSE	1	c	29.86	+ .18	42	41	- 1	N	2	bc	*	?	37	—	
Brest ...	29.72	49	NW	6	o	29.97	+ .27	48	47	+ 2	N	2	b	3	61	43	0.04	
Lorient ...	29.72	47	NNW	4	c	29.99	+ .31	45	43	- 1	NNW	4	b	3	50	43	0.08	
Spain.																		
Rocheport ...	29.77	49	WNW	5	c	29.90	+ .14	46	45	- 1	N	4	0	2	57	39	0.12	
Belfort ...	29.73	44	W	1	bc	29.88	+ .04	43	34	+ 1	W	1	bc	*	64	37	—	
Lyons ...	29.73	44	W	1	r	29.84	+ .04	43	40	- 3	W	1	c	*	57	?	—	
Nice ...	29.58	59	W	5	b	29.78	+ .24	48	44	- 7	E	1	b	1	66	41	—	
Perpignan ...	29.83	47	S	2	o	29.86	- .05	48	44	- 2	W	3	o	*	63	40	0.36	
Biarritz ...	29.85	50	W	6	r	29.92	+ .04	50	46	+ 2	NNW	5	tlh	5	61	41	1.14	
Portugal.																		
Corunna ...	*	*	*	*	*	30.22	+ .06	55	51	+ 8	N	5	bc	6	57	45	0.12	
Lisbon ...	30.25	54	NW	4	b	30.26	- .04	52	49	+ 1	NNE	4	r	4	61	50	—	

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

Sunday, 27th April,

1890.

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:

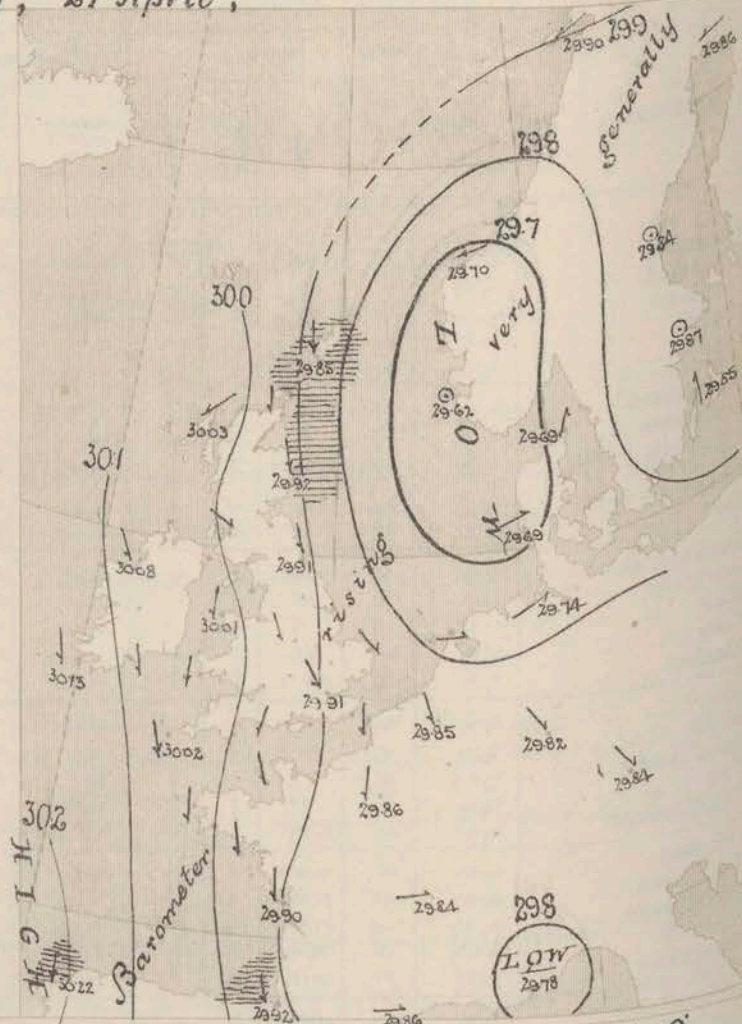
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of April.

During the 15 Years: 1871-1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.849
Stornoway	29.821
Wick	29.853
Nairn	29.853
Aberdeen	29.862
Leith	29.865
Shields	29.870
York	29.877
Loughborough	29.878
Androsan	29.857
Donaghadee	29.853
Holyhead	29.851
Liverpool	29.864
Parsonstown	29.853
Valencia	29.855
Roche's Point	29.838
Pembroke	29.844
Silly	29.849
Jersey	29.867
Hurst Castle	29.867
Dover	29.866
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.876



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.

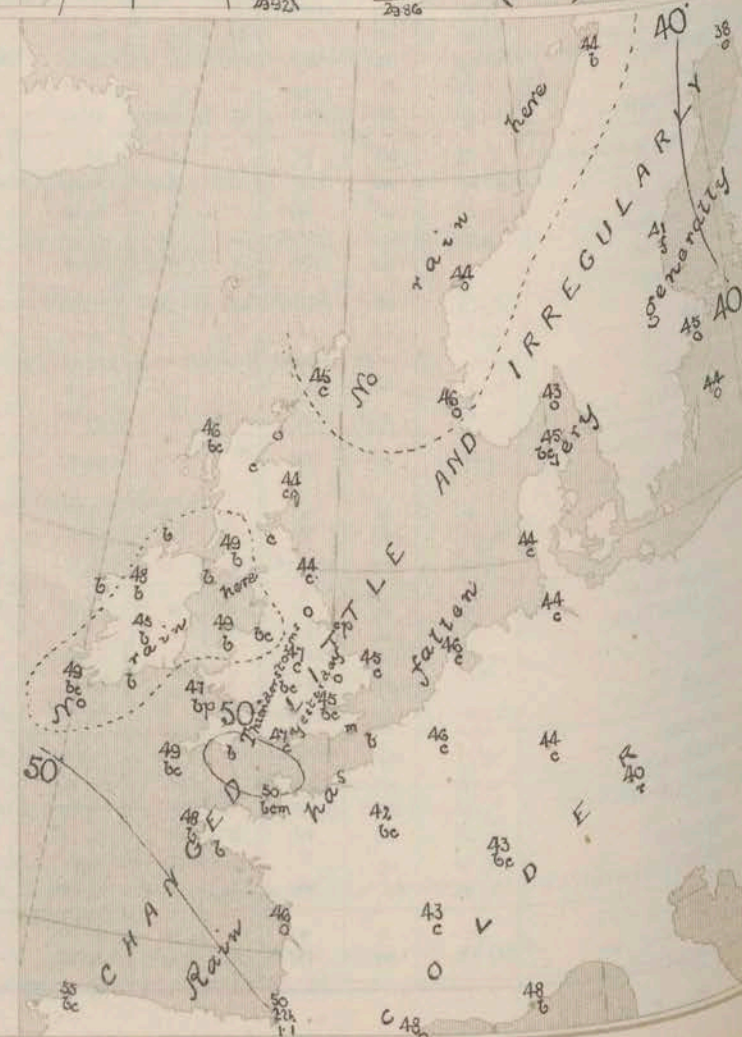
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of April.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	46.3	37.3	41.9	40.5	2.16
Stornoway	49.3	37.5	41.1	42.3	2.41
Wick	49.2	37.4	43.2	41.2	1.40
Nairn	51.5	37.9	43.1	40.6	1.22
Aberdeen	49.6	38.5	43.4	40.9	2.23
Leith	52.6	38.2	44.2	42.1	1.05
Shields	49.2	39.2	43.8	41.7	1.94
York	54.1	37.8	44.1	42.0	1.86
Loughborough	55.7	38.3	45.1	42.4	1.77
Androsan	52.1	39.9	44.6	42.2	2.23
Donaghadee	51.3	40.1	44.8	43.2	2.02
Holyhead	51.9	42.4	46.2	44.2	1.86
Liverpool	53.0	40.7	45.5	42.6	1.36
Parsonstown	55.0	38.3	40.7	43.0	2.15
Valencia	54.3	43.0	48.4	45.0	4.01
Roche's Point	54.2	42.4	47.0	44.9	3.43
Pembroke	50.8	42.1	45.6	43.6	2.19
Silly	52.5	42.0	49.0	47.1	2.45
Jersey	54.6	49.6	49.0	40.4	2.04
Hurst Castle	52.3	41.4	45.9	44.6	1.87
Dover	51.5	42.4	47.1	44.5	1.81
LONDON	56.7	40.0	46.8	43.8	1.86
Oxford	55.1	39.5	45.0	42.7	1.79
Cambridge	56.2	37.7	45.5	43.3	1.76
Yarmouth	49.5	40.4	45.1	43.4	1.80

NOTE—The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 20 years 1866-85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 29.9 in. to 30.2 in. and more, in a high pressure area the eastern portion of which covers the British Isles, Britain, the Bay of Biscay and Spain.
 Lowest, 29.7 in. and less, in a depression lying over Denmark and the southern half of Norway; 29.5 in. and less, over Germany and France.

Gradients moderate to slight.

Barometer rising generally, but slowly in the west.

TEMPERATURE

Highest, 55° at Lorient, 52° at Lissieux, 50° at Brest, 49° in the west of Ireland and 48° at Nice.

Lowest, (1) 38° at Haparanda, 41° at Helsingfors, 44° at Nisby; (2) 40° at Munich, 42° at Paris, Le Mans and Metz, 43° along our northeast coast and 45° in London.
 It rose considerably over England during yesterday morning but subsequently fell fast, and was very low early this morning, with sharp frost on the ground.

WIND

N^h over the British Isles, Brittany, the Bay of Biscay and Spain, light to fresh in force generally, strong at Aberdeen.

N^h and NW^h light and variable over Germany, and the east and south of France.

SW^h, light at Lissieux, calm in Sweden, E^h over Lapland and Norway.

WEATHER

Rain at our western stations, showing in the northeast and east, and in some parts of France and Portugal; thunderstorm prevailing at Brest, rain at Munich. Thunderstorms occurred generally over the southern and midland counties of England yesterday and at Liverpool.
 Thick fog for the time of year prevailed in London on several occasions yesterday.

SEA

Rough in the north, moderate in the northeast and also off our southern coast, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 28th APRIL 1890.

DISTRICTS.

FORECASTS.

- 6 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		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.37	52	44	N	6	r	3		Holyhead ...	29.78	48	45	N	4	3
Sumburgh Head ...	29.68	49	45	NNE	5	bc	5		Valencia ...	30.81	54	50	N	5	5
Stornoway ...	29.86	52	50	NE	4	c	4		Scilly ...	29.75	45	44	NNE	6	3
Aberdeen ...	29.71	50	45	NNW	6	py	4		Jersey ...	29.64	50	46	NNW	4	2
Shields ...	29.68	50	46	N	4	c	2		Dungeness ...	29.62	53	49	WSW	3	2
Ardrossan ...	29.79	55	48	WNW	3	bc	2		London ...	29.68	45	43	NNW	2	3
Malin Head ...	29.89	49	46	NNW	5	b	3		Yarmouth ...	29.62	51	45	NNE	4	?
Mullaghmore ...	29.92	52	47	NNW	6	bc	4		Rochefort ...	29.78	53	48	WNW	6	c
Belmullet ...	30.00	52	47	N	5	c	*								

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

Weather fair at first in many parts of our Islands and Western Europe, as well as at Constantinople and over Southern Russia, cloudy overcast in most other places, with rain in the south of Norway and Sweden and at Newfoundland. Rain later in most parts of Western Europe (heavy at Biscay), and showers over the central and northern countries also. Thunder and lightning very prevalent over England and the coast and south-west of France; dense darkness in London about midday.

Temperature fallen over France and Spain, changing fitfully over the British Islands—diurnal range large, morning readings 50° to 64° at the Mediterranean stations, and exceeding 50° over Southern Europe, lower elsewhere. Lowest readings 38° in the north of Sweden, 36° at Kaspia, 37° at Stockholm, and 38° at Rostock. Rising to 70° and more over Algeria, the south of Italy and Austria-Hungary later, and to between 50° and 58° over the British Isles, falling suddenly over England subsequently.

Wind NE¹ over Scandinavia, N¹ to NW¹ over the British Isles, NW¹ over the Bay of Biscay; very variable and light over Central Europe, W¹ in North Germany, and SE¹ over the Baltic. The N¹ wind in our Islands moderating later, but the NE¹ breeze in Sweden and Norway growing stronger.

Barometer highest 29.8 in.: to 30.1 in.: over Russia, 29.6 in.: to 29.8 in.: and more over the British Islands, and 30.0 in.: to 30.3 in.: over the Iberian Peninsula. Lowest 29.1 in.: and less, in a depression lying over Denmark, 29.6 in.: and less, in a smaller system over the Gulf of Genoa and below 29.7 in.: all over Central Europe. Rain in most places, and depression over Denmark moving to the northward and filling up partially.

EXPLANATION OF 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).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Monday, 28th April, 1890.

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 12.)	SHADE TEMP.			
			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 ...	30.06	35	Z	0	0	30.14	+ .28	37	?	- 1	NW	2	0	*	41	30	-	
Hernösand ...	29.99	38	Z	0	f	29.90	+ .06	40	39	- 1	NE	6	0	*	50	36	0.32	
Stockholm ...	29.86	41	N	2	+	29.88	+ .01	41	40	- 4	WSW	2	0	*	59	39	0.47	
Wisby ...	29.81	40	ESE	4	+	29.89	+ .04	43	43	- 1	WSW	4	0	*	50	37	0.43	
Bodö ...	29.97	44	NE	2	0	30.09	+ .19	46	42	+ 2	ESE	4	0	2	48	37	-	
NORWAY.																		
Christiansund ...	29.84	47	NNE	3	0	29.89	+ .19	47	42	+ 3	ESE	2	0	3	50	41	-	
Skudesnaes ...	29.80	44	SSE	1	+	29.89	+ .27	48	44	+ 2	Z	0	0	2	52	43	0.08	
Christiania Fjord (Færder) ...	29.88	42	NNE	2	0	29.92	+ .22	42	41	- 1	N	1	0	1	46	41	-	
Skagen (The Scaw) ...	29.86	44	S	1	0	29.93	+ .24	45	43	0	Z	0	0	0	54	43	0.04	
Fanö ...	29.83	43	SW	2	0	29.85	+ .16	46	44	+ 2	SSE	4	0	*	50	41	-	
SWEDEN.																		
Sumburgh Head ...	29.92	45	NNE	2	0	29.91	+ .06	45	42	0	NNE	2	0	5	49	37	-	
Stornoway ...	30.04	46	NE	4	bc	29.97	- .06	44	42	- 2	NE	3	0	3	50	34	-	
Wick ...	30.00	42	N	3	0	29.95	- .01	44	42	0	NE	3	0	2	47	37	0.02	
Nairn ...	30.02	47	NNE	3	0	29.96	- .03	43	41	0	E	2	0	2	51	41	0.02	
Aberdeen ...	29.99	43	NW	5	bcqp	29.93	+ .01	43	40	- 1	NW	3	0	4	49	37	0.02	
SCOTLAND.																		
Leith ...	29.98	46	NE	1	0	29.94	- .02	47	41	- 1	W	1	0	*	54	34	-	
Shields ...	29.96	46	NNE	3	0	29.93	+ .02	42	39	- 2	NW	2	0	4	49	35	-	
Spurn Head ...	29.95	46	N	4	bc	29.91	+ .04	44	41	0	WNW	4	0	4	49	40	0.01	
York ...	29.98	49	N	2	bc	29.95	+ .02	44	40	- 2	N	1	0	*	52	34	-	
Loughborough ...	29.98	51	NNW	1	0	29.96	+ .02	48	45	+ 1	WNW	2	0	*	54	40	0.01	
IRELAND.																		
Ardrossan ...	29.97	53	NNW	3	0	29.96	- .03	44	39	- 5	NE	2	0	1	58	36	-	
Malin Head ...	30.08	50	NNW	3	bc	29.98	- .10	45	43	- 3	SW	2	0	1	51	41	-	
Mullaghmore ...	30.06	51	NW	3	0	29.94	- .14	48	45	0	ESE	2	0	2	52	39	-	
Belmullet ...	30.08	54	W	1	0	29.92	- .17	47	43	- 2	SE	2	0	*	54	41	-	
Donaghadee ...	30.03	50	NNE	3	0	29.96	- .06	47	45	- 2	NNE	3	0	2	55	44	-	
ENGLAND.																		
Liverpool (Bidston) ...	30.01	48	W	3	0	29.95	- .02	48	44	0	W	2	0	3	54	43	-	
Holyhead ...	30.03	49	NW	1	0	29.96	- .05	52	48	+ 3	Z	0	0	0	53	40	-	
Parsonstown ...	30.04	57	Z	0	bc	29.96	- .15	50	45	+ 5	Z	0	0	*	59	34	-	
Valencia ...	30.09	53	SW	2	bc	29.91	- .22	51	49	+ 2	SSE	4	0	4	56	43	-	
Roche's Point ...	30.07	55	WSW	4	0	29.96	- .13	49	46	+ 2	SW	2	0	3	57	40	-	
WALLES.																		
Pembroke (St. Ann's Hd.) ...	30.05	48	NW	3	0	29.98	- .03	48	48	+ 1	WSW	3	0	2	52	46	-	
Scilly ...	30.08	50	NW	4	bc	29.96	- .06	51	48	+ 2	SSW	3	0	3	51	47	-	
Prawle Point ...	30.03	48	W	2	bc	30.02	+ .03	49	47	- 2	WSW	2	0	1	58	39	0.09	
Jersey (St. Aubin's) ...	30.04	52	NW	3	0	30.05	+ .09	49	47	- 1	NW	3	0	3	54	40	-	
Hurst Castle ...	30.00	51	WSW	2	bc	30.02	+ .06	47	45	0	WNW	2	0	1	55	40	0.01	
SCOTLAND.																		
Dungeness ...	29.96	48	NNE	3	0	29.98	+ .10	46	44	- 1	SEW	4	0	2	50	40	0.06	
London ...	29.97	50	N	1	om	29.97	+ .06	46	43	+ 1	W	1	0	*	53	40	0.02	
Oxford ...	30.01	47	N	1	0	29.98	+ .02	42	40	- 4	W	1	0	*	54	36	-	
Cambridge ...	30.00	45	NW	1	bc	29.96	+ .05	45	44	- 4	SW	1	0	*	53	35	0.05	
Yarmouth ...	29.91	47	NNW	2	bc	29.93	+ .09	46	42	+ 1	NW	3	0	3	50	36	0.02	
NORTH SEA.																		
Cuxhaven ...	29.84	46	WNW	2	bc	29.90	+ .16	43	42	- 1	S	2	0	*	50	41	-	
Berlin ...	29.90	51	W	2	bc	30.01	+ .17	50	47	+ 3	S	2	0	*	55	43	0.04	
Wiesbaden ...	*	*	*	*	*	29.99	+ .17	47	44	+ 3	NW	1	0	*	54	41	-	
Munich ...	29.93	42	SE	2	bc	29.96	+ .12	41	?	+ 1	NE	4	0	*	48	32	0.16	
The Helder ...	29.89	45	NW	1	0	29.91	+ .12	44	42	- 2	WSW	2	0	3	48	?	0.04	
NORTH ATLANTIC.																		
Brussels (9 a.m.) ...	*	*	*	*	*	30.02	+ .17	45	43	- 1	SW	2	0	*	54	39	-	
Cape Gris Nez ...	?	46	N	1	0	?	?	45	43	- 1	S	1	0	1	50	43	-	
Paris ...	29.95	52	N	2	0	30.07	+ .21	41	40	- 1	Z	0	0	*	58	35	-	
Brest ...	30.08	52	N	3	0	30.08	+ .11	42	46	0	N	1	0	2	63	45	-	
Lorient ...	30.04	54	N	4	0	30.11	+ .12	45	44	0	Z	0	0	2	58	43	-	
FRANCE AND BELGIUM.																		
Rocheport ...	30.06	52	NNW	5	0	30.15	+ .25	47	45	+ 1	NNE	4	0	?	57	39	-	
Belfort ...	29.87	43	W	1	bc	29.93	+ .25	41	35	- 2	W	1	0	*	66	38	-	
Lyons ...	29.90	48	WNW	1	0	30.02	+ .18	45	44	+ 2	NNW	2	0	*	57	41	0.08	
Nice ...	29.88	54	SSW	3	0	29.93	+ .15	46	44	- 2	WSW	3	0	2	69	43	-	
Perpignan ...	29.92	54	NW	3	0	30.06	+ .20	52	46	+ 4	NW	3	0	*	59	46	-	
Biarritz ...	30.07	51	NW	4	0	30.15	+ .23	48	45	- 2	SW	3	0	2	54	43	0.16	
SPAIN.																		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ...	30.26	54	N	3	0	30.21	- .05	52	49	0	N	3	0	5	61	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, 28th April

1890.

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:

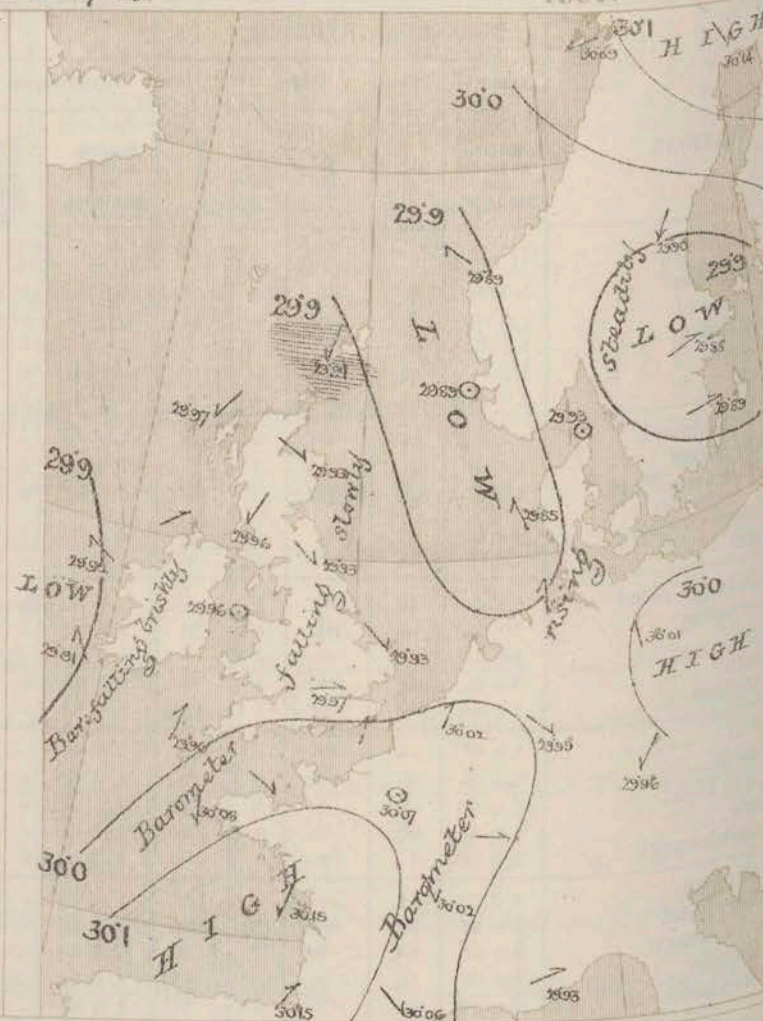
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of April.

During the 15 Years: 1871-1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.849
Stornoway	29.821
Wick	29.853
Nairn	29.853
Aberdeen	29.871
Leith	29.865
Shields	29.870
York	29.877
Loughborough	29.878
Ardrrossan	29.857
Donaghadee	29.853
Holyhead	29.851
Liverpool	29.864
Parsonstown	29.853
Valencia	29.835
Roche's Point	29.838
Pembroke	29.844
Sally	29.849
Jersey	29.867
Hurst Castle	29.867
Dover	29.866
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.876



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 April.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	10° at 8 a.m.	Wind	
Sumburgh Head	46.3	37.3	41.9	40.5	2.16
Stornoway	49.3	37.5	44.1	42.3	2.51
Wick	49.2	37.4	43.2	41.2	1.56
Nairn	51.5	37.9	43.1	40.6	1.23
Aberdeen	48.6	38.5	43.4	40.9	2.23
Leith	52.6	38.2	44.2	42.1	1.65
Shields	49.2	39.2	43.8	41.7	1.94
York	54.1	37.8	44.1	42.0	1.86
Loughborough	55.7	38.3	45.1	42.6	1.77
Ardrrossan	52.1	39.9	44.6	42.2	2.23
Donaghadee	51.3	40.1	44.8	43.2	2.02
Holyhead	51.9	42.4	46.2	44.2	1.80
Liverpool	53.0	40.7	45.5	42.6	1.56
Parsonstown	55.0	38.3	45.7	43.0	2.15
Valencia	54.3	42.9	48.4	45.9	4.01
Roche's Point	54.2	42.4	47.0	44.9	3.43
Pembroke	59.8	42.1	46.6	43.6	2.10
Sally	52.5	45.0	49.0	47.1	2.45
Jersey	54.6	43.6	49.0	46.1	2.04
Hurst Castle	52.3	41.4	45.9	41.6	1.87
Dover	51.5	42.4	47.1	44.5	1.81
LONDON	54.7	40.0	46.8	43.8	1.86
Oxford	55.1	39.3	45.0	42.7	1.79
Cambridge	56.2	37.7	45.5	43.3	1.75
Yarmouth	49.5	40.4	45.1	43.4	1.80

NOTE—The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 20 years 1866-85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.2 in. and upwards, in Portugal; 30.1 in. and upwards in the north of Sweden.
 Lowest, 29.9 in. and less, in these large depressions, — one lying to the westward of our Islands, another over the eastern parts of the North Sea, and the third over Central Sweden.

Gradients slight generally.

Barometer falling in our Islands, — briskly in the south of Ireland, but rising elsewhere.

TEMPERATURE

Highest, 52° at Holyhead, Bapynaw and Liscannor; 51° at Valencia and Seilly; 50° at Baronsboro and Berlin; and 49° at Belfast, Bantock's Ferry.
 Lowest, 37° at Hapswater, 40° at Kome, and 41° at Stockholm, Kris, Kilsfort, and Munich, and 42° at Andra, Skellefte, and Orford.

Slight ground frost was experienced last night over the central parts of England.

WIND

Light or moderate from the SE^W in the west of Ireland, and from the SW^W in the south of England.

NE^W over the northern parts of Scandinavia and Scotland, S^W in Denmark and North Germany.

N^W or NW^W over the greater part of France.

WEATHER

Fair or fine generally, but dull in the west of Ireland as well as in Sweden and the southern parts of Norway and France. Rain is falling at times.
 Showers fell yesterday in many parts of Great Britain, and a thunderstorm occurred at Biarritz.

SEA

Rather rough at Lumburgh Head and Lisbon, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The new depression which is appearing to the westward of our Islands may possibly spread eastwards, and occasion a renewal of cloudy rainy weather over the United Kingdom. The general appearance remains very unsettled.

FORECASTS

For the 24 hours ending at NOON on 29th APRIL 1890.

DISTRICTS.

FORECASTS.

6 SCOTLAND
NORTH

NE^W to E^W winds, moderate or fresh;
fair generally.

1 SCOTLAND
EAST

2 ENGLAND
N.E.

NW^W winds, backing to the S^W; fine
at first, doubtful later, possibly some rain.

3 ENGLAND
EAST

4 MIDLAND
COUNTIES

5 ENGLAND
SOUTH

W^W to SW^W winds, moderate; fine today,
and milder, unsettled again tomorrow.

DISTRICTS.

FORECASTS

6 SCOTLAND
WEST

Variable breezes, finally SE^W; fair
to dull and some rain.

7 ENGLAND
N.W.

8 ENGLAND
S.W.

9 IRELAND
NORTH

10 IRELAND
SOUTH

S^W winds, increasing in force; fair to
dull and some rain.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.71	51	46.	WNW	2	0	2	Holyhead ...	30.05	52	49	WNW	2	6	2
Sumburgh Head								Valencia ...							
Stornoway ...	30.05	50	48	NE	4	60	4	Scilly ...							
Aberdeen ...								Jersey ...	30.02	53	48	WNW	3	6	3
Shields ...								Dungeness ...	29.93	48	45	NE	1	6	2
Ardrossan ...								London ...							
Malin Head ...	30.07	50	46	N	3	6	2	Yarmouth ...							
Mullaghmore ...								Rochefort ...	30.00	57	51	N	5	6	
Belmullet ...	30.10	53	48	W	2	60	*								

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

Weather improving over western Europe generally but still rather showery at our eastern stations and in some parts of France and Spain; thunder and lightning at Biarritz. Fine in Russia, dull and unsettled over N.W. and central Europe, with rain in several places. No important change later.

Temperature rising after a very cold night, ranging from 55° to 60° over southeastern Europe, Italy, Algeria and on the Spanish and Portuguese coasts, below 50° over our Islands, Scandinavia, the North Sea, Germany and France; lowest of all 36° at Archangel, 38° at Kapaevsk, 41° at Kermassand and 44° at our own northeastern stations; 40° at Münster and 42° at Münster and Paris, rising to between 50° and 59° in Ireland and England later and to between 55° and 60° over France.

Wind N.W. over the British Islands, France and Spain, N.W. and variable at the German stations, S.W. over Russia and Finland E. in Lapland and Norway; moderate to fresh at the western stations, light elsewhere. Falling light in Ireland later and backing to the W. N.W. wind beginning to die out in most places.

Barometer 29.9 ins. to 30.2 ins. and more over the British Isles, Brittany, the Bay of Biscay and Spain; 29.9 ins. to 30.3 ins. and more over Russia. Lowest 29.7 ins. and less over Denmark and the south of Norway and also over Poland; below 29.9 ins. over the whole of France, Germany and Austria, beginning to fall at our western stations later, but rising over France, Germany, the North Sea and Norway.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 20TH TO THE 26TH APRIL 1890

The weather experienced over the British Islands during this week has been of a much more changeable, showery, and unsettled character than that reported for some time past. A good deal of rain has fallen, hail and snow at times, thunder and lightning have occurred in some places, but no gales of importance. Several depressions have passed over us in a northeasterly or easterly direction, and their rains have extended to all parts of the country. Temperature has at times been somewhat high, at others very low, but as a whole below the average for the time of year.

The first depression was large, and passed outside our northwestern coasts early on Monday. Its rain was confined to the western and northern parts of the Kingdom, and its winds were strong in those regions only.

The second came quickly in the rear of the first, advancing with great rapidity until it reached Scotland (on Tuesday morning) after which it moved slowly to the northward and filled up. Its rain fell very generally, and in the Hebrides they were heavy.

The third reached central England early on Thursday; it was then a shallow unimportant disturbance, as far as wind is concerned, and continued so until Friday night, when, on reaching Denmark and the Sound it grew deeper and travelled away to the Baltic. Its rains were general, but in most places slight.

The fourth was a somewhat small, but well marked system; it advanced over the south of England on Friday, and in combination with the last mentioned caused a very complex distribution of pressure over N.W. Europe its rains were heavy over the parts of the Kingdom, hail fell in many places, and it is reported snow fell even on the N.W. side of Dartmoor for an hour on Friday. Its centre subsequently moved southwards to Germany.

At the close of the week the barometer was rising on all our coasts and the weather clearing, with falling temperatures, & N.W. winds. Thunderstorms occurred over England during Saturday.

EXPLANATION OF 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).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Tuesday 29th April 1890.
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 4.)	SHADE TEMP.			
	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.	Amount of Rainfall.	
SCANDINAVIA.																		
Haparanda ...	30.11	41	NE	2	C	30.32	+0.10	36	36	-1	SW	2	f	*	43	32	0.04	
Hernösand ...	30.11	38	S	2	O	30.34	+0.14	40	39	0	S	0	f	*	41	36	0.04	
Stockholm ...	30.20	42	S	2	C	30.25	+0.05	43	41	+2	E	4	o	*	54	35	—	
Wisby ...	30.13	41	SSE	4	C	30.00	+0.11	44	43	+1	E	6	T	*	54	35	0.05	
Bodö ...	30.01	43	ENE	2	C	30.12	+0.03	44	44	+2	S	4	o	2	52	39	—	
NORTH ATLANTIC.																		
Christiansund ...	29.89	40	SW	1	C	30.07	+0.18	49	43	+2	ENE	1	C	2	54	43	—	
Skudesnaes ...	29.94	45	SW	2	O	30.05	+0.16	45	42	-3	SSE	4	o	4	48	43	—	
Christiania Fjord (Fæder)	30.05	46	SE	3	C	30.14	+0.22	46	44	+4	ENE	2	C	1	48	45	—	
Skagen (The Scaw)	30.02	46	S	3	C	30.10	+0.17	46	44	+1	ENE	2	C	2	54	45	—	
Fanø ...	29.98	40	S	1	C	30.04	+0.19	46	44	0	SE	1	C	*	50	39	—	
BRITISH ISLANDS.																		
Sumburgh Head	29.86	45	E	1	O	29.87	-0.04	44	42	-1	ENE	2	T	5	48	40	0.04	
Stornoway ...	29.84	45	NE	4	C	29.80	-0.17	47	45	+3	NE	2	C	3	47	36	—	
Wick ...	29.89	45	NW	3	C	29.86	-0.09	48	46	+4	SW	2	C	1	48	41	0.03	
Nairn ...	29.83	47	NE	1	C	29.82	-0.14	45	43	+2	S	0	C	0	52	33	—	
Aberdeen ...	29.85	43	N	1	O	29.87	-0.06	45	43	+2	SE	2	C	2	46	39	0.22	
Ireland.																		
Leith ...	29.83	40	E	1	C	29.85	-0.09	48	44	+1	NNE	1	bm	*	54	35	—	
Shields ...	29.85	45	NE	1	C	29.87	-0.06	45	42	+3	S	1	m	3	46	37	—	
Spurn Head ...	29.86	45	ENE	3	C	29.88	-0.03	47	45	+3	NNE	1	bcum	2	50	42	—	
York ...	29.88	50	E	1	C	29.89	-0.06	45	43	+1	ENE	1	C	*	55	35	—	
Loughborough ...	29.86	53	W	3	C	29.89	-0.07	51	48	+3	SE	2	C	*	60	39	—	
NORTH AMERICA.																		
Androssan ...	29.81	49	W	2	bcum	29.82	-0.14	49	45	+5	ENE	2	bm	1	52	38	—	
Malin Head ...	29.78	46	SSE	4	C	29.71	-0.24	49	46	+4	SSE	4	o	1	50	44	—	
Mullaghmore ...	29.76	53	NNW	1	C	29.67	-0.27	48	47	0	SE	5	o	4	53	47	0.12	
Belmullet ...	29.74	55	SSE	2	O	29.61	-0.31	52	51	+5	SE	2	O	*	55	46	0.06	
Donaghadee ...	29.83	48	SW	2	C	29.80	-0.16	47	46	0	SW	4	C	2	55	46	—	
EUROPE.																		
Liverpool (Bidston)	29.87	51	NW	1	C	29.85	-0.10	47	43	-1	SE	3	C	3	53	40	—	
Holyhead ...	29.86	48	SW	3	C	29.81	-0.15	47	45	-5	SSE	4	pmg	3	57	45	0.01	
Parsonstown ...	29.80	51	SW	1	O	29.69	-0.27	52	50	+2	S	0	o	*	59	47	0.10	
Valencia ...	29.71	51	ENE	6	pm	29.66	-0.25	49	48	-2	N	1	om	2	53	47	0.71	
Roche's Point...	29.80	50	SW	4	O	29.68	-0.28	50	50	+1	SSE	4	T	4	51	49	0.20	
AFRICA.																		
Pembroke (St. Ann's Hd.)	29.89	49	SW	4	C	29.78	-0.20	48	48	0	S	4	pmg	4	51	46	0.18	
Scilly ...	29.87	51	S	5	O	29.73	-0.23	51	50	0	S	5	o	4	55	46	0.11	
Prawle Point ...	29.89	46	NNW	4	C	29.87	-0.15	48	46	-1	SSE	3	C	3	50	44	—	
Jersey (St. Aubin's)	29.98	52	NNW	3	C	29.92	-0.13	49	45	0	SE	4	C	3	53	41	—	
Hurst Castle ...	29.95	50	W	3	C	29.93	-0.09	52	49	+5	SW	3	C	1	53	46	—	
ASIA.																		
Dungeness ...	29.93	49	NNW	4	C	29.95	-0.03	50	48	+4	SW	3	C	2	53	45	0.07	
London ...	29.89	50	SSE	3	C	29.93	-0.04	52	47	+6	SW	1	C	*	58	41	—	
Oxford ...	29.92	49	W	2	O	29.92	-0.06	47	44	+5	S	2	C	*	59	41	0.01	
Cambridge ...	29.86	51	E	1	C	29.92	-0.04	50	45	+5	S	1	C	*	58	38	—	
Yarmouth ...	29.89	46	S	3	C	29.91	-0.02	49	46	+3	W	2	C	2	49	41	0.07	
AUSTRALIA.																		
Cuxhaven ...	29.96	48	W	3	C	30.02	+0.12	45	44	+2	E	1	m	*	52	43	—	
Berlin ...	29.98	57	ENE	2	C	29.91	-0.10	50	47	0	N	3	o	*	61	40	—	
Wiesbaden ...	*	*	*	*	*	30.04	+0.05	45	42	-2	S	0	C	*	57	37	0.04	
Munich ...	29.92	46	NW	1	C	29.99	+0.03	43	41	+2	W	5	C	*	55	39	0.08	
The Helder ...	29.97	45	SW	1	C	29.99	+0.02	45	44	+1	SSE	1	C	1	50	39	—	
AFRICA.																		
Brussels (9 a.m.)	*	*	*	*	*	30.01	-0.01	49	45	+4	S	1	C	*	53	41	0.04	
Cape Gris Nez	30.01	53	SW	2	C	30.02	-0.05	45	43	+4	W	2	C	2	54	43	—	
Paris ...	29.99	52	S	4	C	29.81	-0.27	51	50	+3	S	5	T	4	63	45	—	
Brest ...	30.02	52	NNW	3	C	29.88	-0.23	50	46	+5	S	4	o	2	54	43	—	
EUROPE.																		
Lorient ...	30.11	55	W	3	C	29.99	-0.16	45	43	-2	SE	4	C	2	61	37	—	
Rochefort ...	29.94	40	W	1	C	30.01	+0.08	51	41	+10	W	1	C	*	63	32	—	
Lyons ...	30.04	46	NNW	3	P	30.04	+0.02	45	44	0	ENE	1	C	*	53	38	0.04	
Nice ...	29.88	50	SW	4	C	29.91	-0.02	51	44	+5	SE	1	C	2	57	43	—	
Perpignan ...	30.04	57	NNW	2	C	30.02	-0.04	51	46	-1	SW	1	C	*	62	35	—	
Biarritz ...	30.08	55	NNE	3	C	29.86	-0.29	47	43	-1	SE	4	o	2	59	43	—	
AFRICA.																		
Corunna ...	30.08	55	NNW	4	O	29.93	-0.28	49	40	-3	NW	4	T	2	63	40	0.28	
Lisbon ...	30.08	55	NNW	4	O	29.93	-0.28	49	40	-3	NW	4	T	2	63	40	0.28	

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

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

for 8 a.m. on

Tuesday, 29th April.

1890

EXPLANATION OF MAP

This is a hand-drawn meteorological map of the North Atlantic region, dated April 1890. The map shows isobars (lines of equal pressure) and various weather features. Key elements include:

- Isobars:** Labeled with values such as 29.6, 29.7, 29.8, 29.9, 30.0, 30.1, 30.2, 30.3, 30.4, 30.5, 30.6, 30.7, 30.8, 30.9, 31.0, 31.1, 31.2, 31.3, 31.4, 31.5, 31.6, 31.7, 31.8, 31.9, 32.0, 32.1, 32.2, 32.3, 32.4, 32.5, 32.6, 32.7, 32.8, 32.9, 33.0, 33.1, 33.2, 33.3, 33.4, 33.5, 33.6, 33.7, 33.8, 33.9, 34.0, 34.1, 34.2, 34.3, 34.4, 34.5, 34.6, 34.7, 34.8, 34.9, 35.0, 35.1, 35.2, 35.3, 35.4, 35.5, 35.6, 35.7, 35.8, 35.9, 36.0, 36.1, 36.2, 36.3, 36.4, 36.5, 36.6, 36.7, 36.8, 36.9, 37.0, 37.1, 37.2, 37.3, 37.4, 37.5, 37.6, 37.7, 37.8, 37.9, 38.0, 38.1, 38.2, 38.3, 38.4, 38.5, 38.6, 38.7, 38.8, 38.9, 39.0, 39.1, 39.2, 39.3, 39.4, 39.5, 39.6, 39.7, 39.8, 39.9, 40.0, 40.1, 40.2, 40.3, 40.4, 40.5, 40.6, 40.7, 40.8, 40.9, 41.0, 41.1, 41.2, 41.3, 41.4, 41.5, 41.6, 41.7, 41.8, 41.9, 42.0, 42.1, 42.2, 42.3, 42.4, 42.5, 42.6, 42.7, 42.8, 42.9, 43.0, 43.1, 43.2, 43.3, 43.4, 43.5, 43.6, 43.7, 43.8, 43.9, 44.0, 44.1, 44.2, 44.3, 44.4, 44.5, 44.6, 44.7, 44.8, 44.9, 45.0, 45.1, 45.2, 45.3, 45.4, 45.5, 45.6, 45.7, 45.8, 45.9, 46.0, 46.1, 46.2, 46.3, 46.4, 46.5, 46.6, 46.7, 46.8, 46.9, 47.0, 47.1, 47.2, 47.3, 47.4, 47.5, 47.6, 47.7, 47.8, 47.9, 48.0, 48.1, 48.2, 48.3, 48.4, 48.5, 48.6, 48.7, 48.8, 48.9, 49.0, 49.1, 49.2, 49.3, 49.4, 49.5, 49.6, 49.7, 49.8, 49.9, 50.0, 50.1, 50.2, 50.3, 50.4, 50.5, 50.6, 50.7, 50.8, 50.9, 51.0, 51.1, 51.2, 51.3, 51.4, 51.5, 51.6, 51.7, 51.8, 51.9, 52.0, 52.1, 52.2, 52.3, 52.4, 52.5, 52.6, 52.7, 52.8, 52.9, 53.0, 53.1, 53.2, 53.3, 53.4, 53.5, 53.6, 53.7, 53.8, 53.9, 54.0, 54.1, 54.2, 54.3, 54.4, 54.5, 54.6, 54.7, 54.8, 54.9, 55.0, 55.1, 55.2, 55.3, 55.4, 55.5, 55.6, 55.7, 55.8, 55.9, 56.0, 56.1, 56.2, 56.3, 56.4, 56.5, 56.6, 56.7, 56.8, 56.9, 57.0, 57.1, 57.2, 57.3, 57.4, 57.5, 57.6, 57.7, 57.8, 57.9, 58.0, 58.1, 58.2, 58.3, 58.4, 58.5, 58.6, 58.7, 58.8, 58.9, 59.0, 59.1, 59.2, 59.3, 59.4, 59.5, 59.6, 59.7, 59.8, 59.9, 60.0, 60.1, 60.2, 60.3, 60.4, 60.5, 60.6, 60.7, 60.8, 60.9, 61.0, 61.1, 61.2, 61.3, 61.4, 61.5, 61.6, 61.7, 61.8, 61.9, 62.0, 62.1, 62.2, 62.3, 62.4, 62.5, 62.6, 62.7, 62.8, 62.9, 63.0, 63.1, 63.2, 63.3, 63.4, 63.5, 63.6, 63.7, 63.8, 63.9, 64.0, 64.1, 64.2, 64.3, 64.4, 64.5, 64.6, 64.7, 64.8, 64.9, 65.0, 65.1, 65.2, 65.3, 65.4, 65.5, 65.6, 65.7, 65.8, 65.9, 66.0, 66.1, 66.2, 66.3, 66.4, 66.5, 66.6, 66.7, 66.8, 66.9, 67.0, 67.1, 67.2, 67.3, 67.4, 67.5, 67.6, 67.7, 67.8, 67.9, 68.0, 68.1, 68.2, 68.3, 68.4, 68.5, 68.6, 68.7, 68.8, 68.9, 69.0, 69.1, 69.2, 69.3, 69.4, 69.5, 69.6, 69.7, 69.8, 69.9, 70.0, 70.1, 70.2, 70.3, 70.4, 70.5, 70.6, 70.7, 70.8, 70.9, 71.0, 71.1, 71.2, 71.3, 71.4, 71.5, 71.6, 71.7, 71.8, 71.9, 72.0, 72.1, 72.2, 72.3, 72.4, 72.5, 72.6, 72.7, 72.8, 72.9, 73.0, 73.1, 73.2, 73.3, 73.4, 73.5, 73.6, 73.7, 73.8, 73.9, 74.0, 74.1, 74.2, 74.3, 74.4, 74.5, 74.6, 74.7, 74.8, 74.9, 75.0, 75.1, 75.2, 75.3, 75.4, 75.5, 75.6, 75.7, 75.8, 75.9, 76.0, 76.1, 76.2, 76.3, 76.4, 76.5, 76.6, 76.7, 76.8, 76.9, 77.0, 77.1, 77.2, 77.3, 77.4, 77.5, 77.6, 77.7, 77.8, 77.9, 78.0, 78.1, 78.2, 78.3, 78.4, 78.5, 78.6, 78.7, 78.8, 78.9, 79.0, 79.1, 79.2, 79.3, 79.4, 79.5, 79.6, 79.7, 79.8, 79.9, 80.0, 80.1, 80.2, 80.3, 80.4, 80.5, 80.6, 80.7, 80.8, 80.9, 81.0, 81.1, 81.2, 81.3, 81.4, 81.5, 81.6, 81.7, 81.8, 81.9, 82.0, 82.1, 82.2, 82.3, 82.4, 82.5, 82.6, 82.7, 82.8, 82.9, 83.0, 83.1, 83.2, 83.3, 83.4, 83.5, 83.6, 83.7, 83.8, 83.9, 84.0, 84.1, 84.2, 84.3, 84.4, 84.5, 84.6, 84.7, 84.8, 84.9, 85.0, 85.1, 85.2, 85.3, 85.4, 85.5, 85.6, 85.7, 85.8, 85.9, 86.0, 86.1, 86.2, 86.3, 86.4, 86.5, 86.6, 86.7, 86.8, 86.9, 87.0, 87.1, 87.2, 87.3, 87.4, 87.5, 87.6, 87.7, 87.8, 87.9, 88.0, 88.1, 88.2, 88.3, 88.4, 88.5, 88.6, 88.7, 88.8, 88.9, 89.0, 89.1, 89.2, 89.3, 89.4, 89.5, 89.6, 89.7, 89.8, 89.9, 90.0, 90.1, 90.2, 90.3, 90.4, 90.5, 90.6, 90.7, 90.8, 90.9, 91.0, 91.1, 91.2, 91.3, 91.4, 91.5, 91.6, 91.7, 91.8, 91.9, 92.0, 92.1, 92.2, 92.3, 92.4, 92.5, 92.6, 92.7, 92.8, 92.9, 93.0, 93.1, 93.2, 93.3, 93.4, 93.5, 93.6, 93.7, 93.8, 93.9, 94.0, 94.1, 94.2, 94.3, 94.4, 94.5, 94.6, 94.7, 94.8, 94.9, 95.0, 95.1, 95.2, 95.3, 95.4, 95.5, 95.6, 95.7, 95.8, 95.9, 96.0, 96.1, 96.2

[illegible]

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.3 in. and upwards, over the Gulf of Bothnia and the north of Sweden.

Lowest, 29.6 in. and less, in a "V" shaped depression lying off the west of Ireland; 29.3 in. and less, in a shallow disturbance lying over Eastern Germany.

Gradients slight. Barometer falling in all the more western parts of our islands and France, but rising elsewhere. At Valencia a slight rise has taken place since midnight.

TEMPERATURE

Highest, 51° at Wilmullet, Kinsale, Kinsale and in London, 51° at Billy, Brest, Loughborough, Belfort, Perpignan and Nice.

Lowest, 36° at Laperoulette, 40° at Helsingfors, 43° at Stockholm and Munich, and 44° at Viterbo and Sumburgh Head.

The maxima registered over England yesterday were somewhat higher than of late; at Oxford the thermometer rose to 59°, and at Loughborough to 60°.

WIND

S⁴ or SE⁴ over our islands, the west of France and the eastern shores of the North Sea; light or moderate in force generally.

E³ in Denmark and the south of Sweden; strong in force at Viterbo.

Light and variable over Germany and the east and south of France.

WEATHER

Rain at several of our western stations and also at Brest; dull in the west of France.

Fair or fine in nearly all other localities.

Showers fell yesterday at some of the English and Scotch stations, and solar halos were seen in many parts of England.

SEA

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

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression off the west of Ireland will probably move northwards, but there are some indications of the advances of other disturbances from the south-westward, and the unsettled weather in the west is therefore likely to become more general.

FORECASTS

For the 24 hours ending at NOON on 30th APRIL 1890.

DISTRICTS.

FORECASTS.

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

SE² winds, light or moderate; fine to unsettled and some rain.

Same as N°5

S² and SE² winds, moderate; fine at first, cloudy later, probably some showers.

DISTRICTS.

FORECASTS

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

SE² winds, moderate or fresh; changeable, some rain.

S² and SE² winds, fresh; changeable, some rain.

Wind shifting to the Wnd or NWnd; changeable, some showers.

WARNINGS

NONE ISSUED.

Note.—The South Cone, point downwards (V), 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	46	43	8	2	0	2	Holyhead ...	29.90	56	50	88W	1	C	5	
Sumburgh Head ...	29.87	45	44	NW	1	7	4	Valencia ...	29.79	53	51	SE	6	C	3	
Stornoway ...	29.90	46	45	NW	3	6	3	Scilly ...	29.95	54	51	S	4	C	3	
Aberdeen ...	29.87	45	43	NW	3	0	3	Jersey ...	29.83	53	47	W	3	bc	2	
Shields ...	29.81	46	43	NNW	2	0	4	Dungeness ...	29.95	50	45	NNW	3	C	*	
Ardrossan ...	29.87	50	46	NNW	3	cm	2	London ...	29.92	56	49	WSPW	2	C	3	
Malin Head ...	29.86	49	46	E	3	0	1	Yarmouth ...	29.91	47	43	SE	2	C	3	
Mullaghmore ...	29.83	53	48	N	3	bc	2	Rocheport ...	29.15	59	52	NNW	3	bc		
Belmullet ...	29.82	53	49	SE	2	0	*									

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

Weather fine and bright over Southeastern, Southern, and Southwestern Europe, fair, but not settled over the British Isles and North Sea, very variable elsewhere with rain at Genoa. Rain falling over Ireland later, heavily at Valencia, showers at many of the northern stations, and thunderstorms occurring in the south of France.

Temperature fallen rapidly in the extreme south, even over Russia; morning reading exceeding 60° at Kharkov only, but exceeding 50° over Russia, Austria, most parts of the Mediterranean, the Bohemian coast and some of the western parts of our Islands, lower elsewhere, but below 40° in the north of Sweden only. Rising to 60° and more in south of France later, and to between 50° and 60° over Ireland and England.

Wind light and extremely variable in most places, but becoming E or S on our western coast, continuing so over Russia, SE and freshening in the east later. No important alteration elsewhere.

Barometer highest 30.0 ins. to 30.2 ins. over France and Spain, 30.0 ins. to 30.5 ins. over Russia; lowest 29.8 ins. and less, over the southern part of the Adriatic, 29.9 ins. and less, over Sardinia, Italy, and Dalmatia, as well as over the eastern part of the North Sea and in Sweden. New depression approaching Ireland later, and barometer falling slightly over the United Kingdom generally.

EXPLANATION OF 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).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for

Wednesday, 30th April,

1890.

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.				
	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.	Amount of Rainfall.		
SCANDINAVIA.																		
Haparanda ...	30.42	29	2	0	c	30.49	+0.17	39	38	+3	NE	2	bc	*	41	28	-	
Hernösand ...	30.31	44	NNE	2	c	30.35	+0.01	47	44	+7	ENE	4	b	*	52	30	-	
Stockholm ...	30.00	45	E	2	c	30.22	-0.03	54	48	+11	E	4	b	*	?	37	-	
Wisby ...	29.97	53	S	4	c	30.05	+0.05	58	51	+14	SSE	6	bc	*	66	37	-	
Bodö ...	30.35	48	NE	1	b	30.33	+0.21	50	44	+2	ENE	4	c	2	50	39	-	
SCANDINAVIA.																		
Christiansund ...	30.11	53	2	4	0	30.05	-0.02	53	50	+4	SSW	1	c	1	59	48	-	
Skudesnaes ...	30.07	46	2	0	0	30.10	+0.05	45	43	0	E	2	bc	2	?	37	-	
Christiania Fjord (Færd)	30.01	45	N	5	r	30.04	-0.10	45	45	-1	N	2	f	1	50	43	0.20	
Skagen (The Scaw)	29.92	44	NE	3	0	30.00	-0.10	44	44	-2	N	2	f	2	50	43	0.08	
Fanö ...	30.01	44	NW	2	c	30.09	+0.05	45	44	-1	SSE	2	c	*	54	39	-	
SCANDINAVIA.																		
Sumburgh Head	29.90	45	ESE	3	c	29.96	+0.09	44	42	0	SE	4	0	6	49	41	-	
Stornoway ...	29.78	50	E	2	b	29.80	-0.00	48	48	+1	SW	4	0	4	54	40	0.05	
Wick ...	29.84	46	S	4	bc	29.91	+0.05	47	45	-1	S	4	0	2	53	43	0.01	
Nairn ...	29.78	56	2	0	bc	29.86	+0.04	52	49	+7	SW	1	0	0	56	44	0.04	
Aberdeen ...	29.89	44	SSE	3	b	29.94	+0.07	48	46	+3	SSE	2	om	3	49	43	0.03	
SCANDINAVIA.																		
Leith ...	29.82	53	2	0	0	29.94	+0.09	54	49	+6	SSW	1	c	*	55	45	0.05	
Shields ...	29.84	46	E	3	0	29.96	+0.09	48	47	+3	S	2	c	3	49	43	0.12	
Spurn Head ...	29.87	50	SE	4	bc	30.00	+0.12	49	47	+2	SSE	4	b	3	53	43	-	
York ...	29.87	55	W	1	0	30.00	+0.11	50	45	+5	ESE	1	b	*	60	39	-	
Loughborough	29.87	56	SSE	1	bc	29.98	+0.09	52	48	+1	SE	2	b	*	59	34	-	
SCANDINAVIA.																		
Ardrossan ...	29.81	50	SSE	2	r	29.91	+0.09	50	49	+1	SSE	1	om	1	57	47	0.18	
Malin Head ...	29.71	48	SE	4	og r	29.82	+0.11	49	48	0	S	2	o r	1	52	40	0.15	
Mullaghmore ...	29.71	55	SSW	3	op	29.81	+0.14	51	48	+3	SSE	4	og p	3	58	46	0.34	
Belmullet ...	29.72	51	W	2	0	29.80	+0.19	46	45	-6	ENE	2	r	*	55	46	0.04	
Donaghadee ...	29.79	48	S	2	0	29.89	+0.09	50	49	+3	S	3	c	1	50	45	0.11	
SCANDINAVIA.																		
Liverpool (Bidston)	29.85	51	SSE	1	0	29.95	+0.10	53	47	+6	ESE	2	bc	3	54	41	0.02	
Holyhead ...	29.82	51	SW	3	cq	29.92	+0.11	54	49	+7	SSE	1	bc	2	54	42	0.19	
Parsonstown ...	29.74	54	SE	1	c	29.84	+0.15	49	47	-3	2	0	r	*	62	48	0.02	
Valencia ...	29.73	48	NW	3	rm	29.77	+0.11	50	49	+1	ESE	1	og	2	51	46	0.57	
Roche's Point...	29.75	50	SSE	4	r	29.80	+0.12	52	49	+2	SE	4	bc	4	52	49	0.20	
SCANDINAVIA.																		
Pembroke (St. Ann's Hd.)	29.82	50	S	4	c	29.87	+0.09	50	47	+2	SE	5	b	5	54	45	-	
Scilly ...	29.73	50	SSE	5	or u	29.80	+0.07	53	52	+2	SE	3	c	5	56	47	0.02	
Prawle Point ...	29.85	47	ENE	2	b	29.88	+0.01	54	50	+6	ENE	4	b	2	54	45	-	
Jersey (St. Aubin's)	29.84	58	ESE	3	bc	29.88	-0.04	57	50	+8	E	3	bm	3	60	47	-	
Hurst Castle ...	29.90	52	ENE	1	b													
SCANDINAVIA.																		
Dungeness ...	29.92	50	SSE	2	b	29.95	-0.00	51	48	+1	ESE	3	bc	2	55	46	-	
London ...	29.90	56	SSE	1	b	29.98	+0.05	56	49	+4	ESE	2	bw	*	61	42	-	
Oxford ...	29.92	50	SSE	2	b	29.98	+0.06	51	46	+4	E	1	bc	*	60	35	-	
Cambridge ...	29.91	54	S	1	b	29.99	+0.07	56	51	+6	SE	1	b	*	61	36	-	
Yarmouth ...	29.92	49	S	4	b	30.02	+0.11	48	47	-1	SE	2	b	2	51	44	-	
SCANDINAVIA.																		
Cuxhaven ...	30.01	48	N	2	b	30.07	+0.05	46	45	+1	NE	2	bc	*	50	45	-	
Berlin ...	29.97	50	NW	2	c	30.10	+0.19	51	47	+1	N	2	bc	*	52	46	-	
Wiesbaden ...	*	*	*	*	*	30.04	00	51	47	+6	NE	3	b	*	61	39	-	
Munich ...	30.03	42	SW	2	b	30.05	+0.06	45	43	+2	SE	6	b	*	54	32	0.20	
The Helder ...	30.00	48	NE	1	b	30.06	+0.07	49	46	+4	E	1	b	1	55	45	-	
SCANDINAVIA.																		
Brussels (a.m.)	*	*	*	*	*	30.02	+0.01	51	48	+2	ESE	1	b	*	60	42	-	
Cape Gris Nez	?	52	E	3	b	?	?	52	46	+6	ESE	2	b	2	57	45	-	
Paris ...	29.91	58	ESE	2	b	29.92	-0.10	50	45	+5	SE	2	b	*	63	41	-	
Brest ...	29.80	54	S	2	0	29.81	-0.00	51	47	0	N	1	0	2	61	46	-	
Lorient ...	29.80	56	ESE	1	c	29.80	-0.08	49	45	-1	SSE	3	bc	5	55	46	-	
SCANDINAVIA.																		
Rochefort ...	29.82	62	SE	3	0	29.84	-0.15	53	49	+8	SE	3	0	?	68	43	-	
Belfort ...	29.97	44	NW	1	bc	29.97	-0.04	52	44	+1	NW	1	b	*	65	38	-	
Lyons ...	29.89	51	E	1	b	29.94	-0.10	51	44	+6	ESE	2	bc	*	61	44	-	
Nice ...	29.97	52	S	4	b	30.03	+0.12	50	45	-1	E	4	bc	1	63	43	-	
Perpignan ...	29.81	63	2	0	0	29.84	-0.18	55	52	+4	ESE	2	0	*	66	50	-	
Biarritz ...	29.67	64	E	4	0													
SCANDINAVIA.																		
Corunna ...	*	*	*	*	*													
Lisbon ...	30.08	57	NW	5	b	30.17	+0.24	51	47	+2	NW	4	bc	7	57	?	0.08	

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, 30th April. 1890.

BAROMETER, WIND AND SEA.

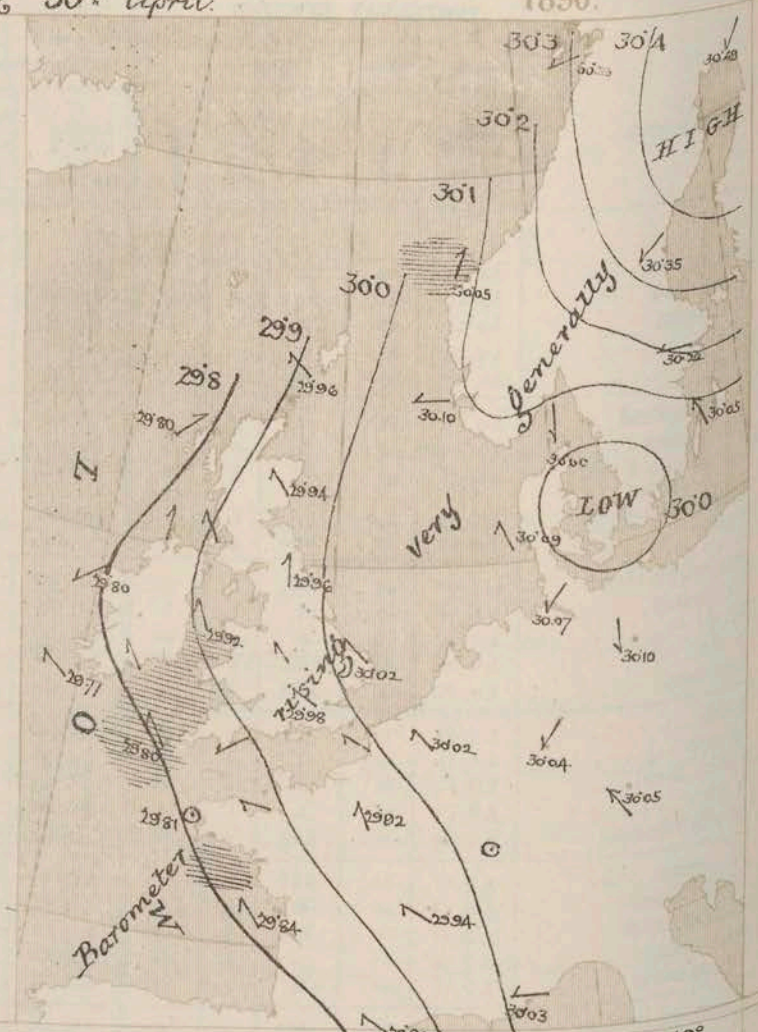
EXPLANATION OF MAP.

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 April.
During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.	
	in.	mm.
Sumburgh Head	29.840	29.840
Stornoway	29.821	29.821
Wick	29.853	29.853
Nairn	29.853	29.853
Aberdeen	29.862	29.862
Leith	29.865	29.865
Shields	29.870	29.870
York	29.877	29.877
Loughborough	29.878	29.878
Ardrossan	29.887	29.887
Donaghadee	29.853	29.853
Holyhead	29.851	29.851
Liverpool	29.861	29.861
Parsonstown	29.853	29.853
Valencia	29.835	29.835
Rocha's Point	29.838	29.838
Pembroke	29.814	29.814
Sally	29.849	29.849
Jersey	29.867	29.867
Hurst Castle	29.867	29.867
Dover	29.868	29.868
LONDON	29.877	29.877
Oxford	29.882	29.882
Cambridge	29.879	29.879
Yarmouth	29.876	29.876



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

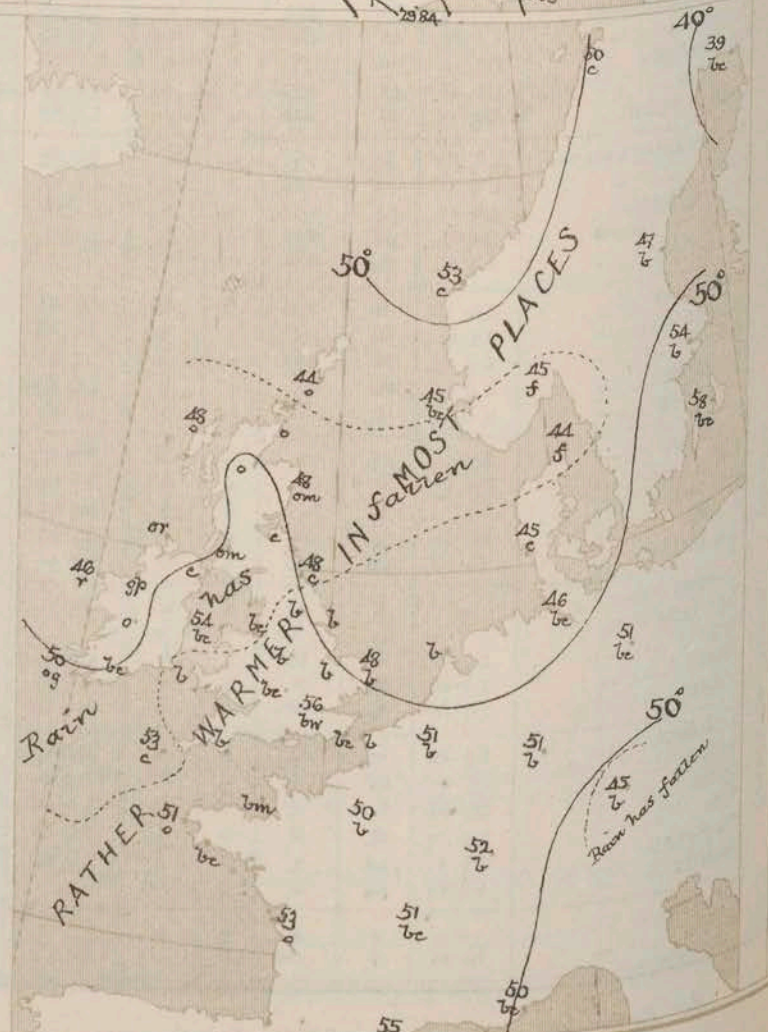
TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.
WEATHER—is shown by letters of the Beaufort Scale.
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL

(For the month of April.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	At 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	46.3	37.3	41.9	40.3	2.16
Stornoway.....	49.3	37.5	44.1	42.3	2.31
Wick.....	49.2	37.4	43.2	41.2	1.50
Nairn.....	51.5	37.9	43.1	40.6	1.23
Aberdeen.....	49.6	38.5	43.4	40.9	2.23
Leith.....	52.6	38.2	44.2	42.1	1.65
Shields.....	49.2	39.2	43.5	41.7	1.94
York.....	54.1	37.5	44.1	42.0	1.86
Loughborough.....	55.7	38.3	43.1	42.6	1.77
Ardrossan.....	52.1	39.9	44.6	42.2	2.39
Donaghadee.....	54.3	40.1	44.8	43.2	2.02
Holyhead.....	51.9	42.4	46.2	44.2	1.85
Liverpool.....	53.0	40.7	45.5	42.6	1.55
Parsonstown.....	55.0	39.3	45.7	43.0	2.15
Valencia.....	51.3	42.0	48.1	46.9	4.01
Rocha's Point.....	54.2	42.4	47.0	44.9	3.44
Pembroke.....	50.3	42.1	45.6	43.6	2.10
Sally.....	52.5	45.0	49.0	47.1	2.45
Jersey.....	54.6	43.6	49.0	46.4	2.04
Hurst Castle.....	52.2	41.4	45.9	44.6	1.87
Dover.....	51.5	42.4	47.1	44.5	1.81
LONDON.....	50.7	40.0	46.8	43.8	1.86
Oxford.....	55.1	39.3	45.0	42.7	1.79
Cambridge.....	56.2	37.7	45.5	43.3	1.75
Yarmouth.....	49.5	40.4	45.1	43.4	1.80

NOTE—The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 20 years 1866-85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.4 ins: and upwards, over the north of Sweden; 30.1 ins: and upwards in the south of Portugal.
 Lowest, 29.8 ins: and less, in a long trough extending southeastwards from the west coasts of our islands to the Bay of Biscay and the north of Spain.
 Gradients slight. Barometer rising generally.

TEMPERATURE

Highest, 58° at Nisby, 57° at Jersey, 56° in London and at Cambridge, 55° at Perpignan and 54° at Stockholm, Kiel, Helighead and Newcastle.
 Lowest, 39° at Copacabanda, 44° at Kagen and Seimburgh Head, and 45° at Kudenwa, Tander, Paris and Hameln.
 The highest maxima registered over our islands yesterday were 62° at Larcombe, and 61° in London and at Cambridge.

WIND

Light or moderate from the SErd over England, Ireland and France, and from the SWrd in Scotland.
 E^{ly} or NE^{ly} in Sweden, Germany, and the south of Norway. Moderate from the NWrd at Lisbon.

WEATHER

Fine generally, but dull in Ireland, Scotland, and the west of France, with rain at Malin Head and Balmuccia.
 Fog is reported over the Skagerrack.
 Rain fell yesterday at most of our western and northern stations, the largest amount being 1.6 ins: at Valencia.

SEA

Rough at Seimburgh Head, and rather rough at the mouths of the English and Bristol Channels, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The barometer is now rising decidedly at Lisbon, and it is not unlikely that the depression over the Bay of Biscay will move slowly northeastwards across France. The system is too shallow to produce any material effect upon the winds, but the weather in our southeastern counties may possibly become cloudy and thundery.

FORECASTS

For the 24 hours ending at NOON on 1st May, 1890.

DISTRICTS.

FORECASTS.

DISTRICTS.

FORECASTS

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

SE^{ly} winds, light or moderate; fair generally.
 SE^{ly} winds, light; fine at first, cloudy later, possibly some rain.
 E^{ly} winds, light; fair to dull and some rain, possibly thunder.

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

SE^{ly} winds, light or moderate; fair generally.
 SE^{ly} winds, light or moderate; fair to dull and some rain.
 SE^{ly} and E^{ly} winds, moderate; cloudy, rain locally.

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 ...	30.08	47	42	S	6	c	3		Holyhead ...	29.80	49	48	SSW	4	4
Sumburgh Head ...	29.88	46	45	ESE	3	c	5		Valencia ...	29.70	51	50	H	2	2
Stornoway ...	29.78	54	50	2	2	6	2		Scilly ...	29.73	53	52	SSE	5	5
Aberdeen ...	29.58	48	45	SSE	4	6	3		Jersey ...	29.87	58	51	ESE	4	6c
Shields ...	29.84	48	47	SE	3	c	3		Dungeness ...	29.74	54	50	SSW	2	6
Ardrossan ...	29.80	52	47	WNW	1	0	1		London ...	29.90	58	50	SE	3	4
Malin Head ...	29.71	44	47	NE	5	0	2		Yarmouth ...	29.92	50	47	S	5	6
Mullaghmore ...	29.67	56	52	SE	4	0	3		Rochefort ...	29.87	63	53	SE	4	c
Belmullet ...	29.67	52	49	SW	2	0	*								

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

Weather dull and rainy over Portugal, Brittany, and the western parts of the British Islands, as well as over Germany, Iceland and at several of the Baltic stations; fine and bright over Russia, Norway, Denmark, the Netherlands, and the greater part of England, France, and the Mediterranean. Rainfall considerable in the west of Ireland during the day, slight at our other western stations, and in Scotland; none over the midland and eastern counties of England.

Temperature highest 53° to 63° at the Mediterranean stations, and exceeding 50° over Russia, Poland, and Hungary, as well as over the southern parts of our Islands, lower, as a whole, elsewhere. Lowest 36° at Archangel and Haparanda, 40° at Hernösand, 44° at Sumburgh Head and at Copenhagen. Rising to between 55° and 61° over our Islands later, and to between 60° and 70° over France.

Wind S^{ly} to SE^{ly} over the British Islands, Channel, and North Sea, SE^{ly} in Norway, E^{ly} over the Baltic; W^{ly} in Portugal; and very variable elsewhere. Complex cyclonic systems prevalent over Central Europe and the northern parts of the Adriatic and Mediterranean. N^{ly} winds in extreme southwest of Ireland during day, but not spreading eastwards.

Barometer highest 30.3 in. to 30.5 in. over Sweden, Finland, and Russia, 30.1 in. and more over Algeria, and 30.0 in. and more in a narrow band stretching northwards from the western part of the Mediterranean across France, Holland, and the eastern parts of the North Sea to Scandinavia. Lowest, 29.7 in. and less, over the western parts of Ireland, 29.8 in. and less, in the northwest of Spain, and also in a complex depression over Central Europe. Rising in Ireland later, falling in France and the north of Spain.

EXPLANATION OF 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).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

ADDITIONS AND CORRECTIONS TO THE

REPORTS

1. REPORTS RECEIVED TOO LATE FOR INSERTION DAILY.

DATE.	STATIONS.	YESTERDAY EVENING.						8 A.M. TO-DAY.										PAST 24 HOURS.		
		Barometer at 32° 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 9.)	SHADE TEMP.		Amount of Rainfall.		
				Direc.	Force (0 to 12.)				Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force (0 to 12.)			Max.	Min.			
1	Hyperanda.....	29.72	22	Z	0	bc	29.77	+0.54	24	23	?	NNW	2	b	*	32	19	.		
-	Corunna.....	*	*	*	*	*	29.93	+0.07	59	54	- 4	NNW	1	b	4	63	45	0.16		
2	Corunna.....	*	*	*	*	*	29.74	-0.19	58	54	- 1	NE	4	b	3	64	50	.		
3	Corunna.....	*	*	*	*	*	29.83	+0.09	57	55	- 1	N	4	c	4	59	50	0.04		
7	Corunna.....	*	*	*	*	*	30.16	-0.04	55	54	- 4	NNW	4	f	5	79	50	0.04		
8	Corunna.....	*	*	*	*	*	30.20	+0.04	55	54	0	N	4	o	4	59	50	0.47		
9	Brussels.....	*	*	*	*	*	29.67	+0.07	40	-	- 2	NNW	3	o	*	?	35	0.04		
-	Corunna.....	*	*	*	*	*	30.14	-0.06	57	53	+ 2	SW	4	b	5	61	50	.		
10	Corunna.....	*	*	*	*	*	30.08	-0.06	54	53	- 3	N	1	o	4	59	45	0.04		
11	Corunna.....	*	*	*	*	*	30.10	+0.02	52	49	- 2	NE	3	c	4	57	43	.		
12	Corunna.....	*	*	*	*	*	29.92	-0.18	53	49	+ 1	E	1	c	2	57	39	0.63		
13	Kisby.....	29.65	34	W	6	S	29.78	+0.15	37	36	+ 2	WSW	4	b	*	37	32	0.04		
14	Corunna.....	*	*	*	*	*	29.06	-0.08	50	49	+ 4	E	2	r	4	61	46	0.35		
15	Corunna.....	*	*	*	*	*	29.11	+0.05	54	51	+ 4	S	5	r	4	57	46	0.63		
16	Corunna.....	*	*	*	*	*	29.17	+0.06	48	47	- 6	SW	1	o	4	57	46	0.12		
17	Corunna.....	*	*	*	*	*	29.37	+0.20	56	52	+ 8	NW	4	bc	4	61	46	0.12		
18	Corunna.....	*	*	*	*	*	29.71	+0.34	58	55	+ 2	SW	4	o	4	59	48	.		
19	Corunna.....	*	*	*	*	*	30.00	+0.29	57	54	- 1	NW	4	o	3	61	52	.		
21	Corunna.....	*	*	*	*	*	30.24	+0.05	62	58	+ 3	NW	1	o	4	66	52	.		
22	Corunna.....	*	*	*	*	*	30.40	+0.11	60	56	- 2	NW	1	o	4	66	55	.		
23	Corunna.....	*	*	*	*	*	30.47	+0.07	61	57	+ 1	SW	1	f	4	68	54	.		
24	Corunna.....	*	*	*	*	*	30.30	-0.17	60	60	- 1	NNW	4	o	5	61	54	0.20		
25	Corunna.....	*	*	*	*	*	30.16	+0.04	47	47	- 6	NW	7	m	7	61	46	.		
28	Corunna.....	*	*	*	*	*	30.16	-0.06	55	52	0	NNW	2	m	4	59	48	0.47		
29	Corunna.....	*	*	*	*	*	30.17	+0.01	50	49	- 5	W	4	r	4	61	48	0.28		
30	Biarritz.....	*	*	*	*	*	29.78	-0.08	51	-	+ 4	SW	3	o	?	72	?	0.32		
-	Corunna.....	*	*	*	*	*	30.02	-0.15	56	51	+ 6	NNW	5	c	5	?	45	.		

