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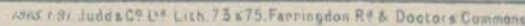
METEOROLOGICAL OFFICE,
LONDON.

DAILY WEATHER REPORTS.

1ST JULY-31ST DECEMBER,
1890.

Soc. Reg. Lond.

July to December, 1890.



DAILY WEATHER REPORT.

for Wednesday 1st October.

1890.

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

Issued by the Meteorological Office, 65, Victoria Street, London. R. H. SCOTT, Secretary.																	
YESTERDAY EVENING.																	
8 A.M. TO DAY.																	
PAST 24 HOURS.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SEA.																	
MAX.																	
MIN.																	
Amount of Rainfall.																	
SCANDINAVIA.																	
Haparanda ...																	
Hernösand ...																	
Stockholm ...																	
Wisby ...																	
Bodö ...																	
Christiansund ...																	
Skudesnaes ...																	
Christiania Fjord ...																	
Skagen (The Skaw) ...																	
Fanö ...																	
Sumburgh Head ...																	
Stornoway ...																	
Wick ...																	
Nairn ...																	
Aberdeen ...																	
Leith ...																	
Shields ...																	
Spurn Head ...																	
York ...																	
Loughborough ...																	
Ardrossan ...																	
Malin Head ...																	
Mullaghmore ...																	
Belmullet ...																	
Donaghadee ...																	
Liverpool (Bidston) ...																	
Holyhead ...																	
Parsonstown ...																	
Valencia ...																	
Roche's Point ...																	
Pembroke (St. Ann's Hd.) ...																	
Scilly ...																	
Prawle Point ...																	
Jersey (St. Aubin's) ...																	
Hurst Castle ...																	
Dungeness ...																	
London ...																	
Oxford ...																	
Cambridge ...																	
Yarmouth ...																	
Cuxhaven ...																	
Berlin ...																	
Wiesbaden ...																	
Munich ...																	
The Helder ...																	
Brussels (9 a.m.) ...																	
Cape Gris Nez ...																	
Paris ...																	
Brest ...																	
Lorient ...																	
Rochefort ...																	
Belfort ...																	
Lyons ...																	
Nice ...																	
Perpignan ...																	
Biarritz ...																	
Corunna ...																	
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, 1st October,

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:

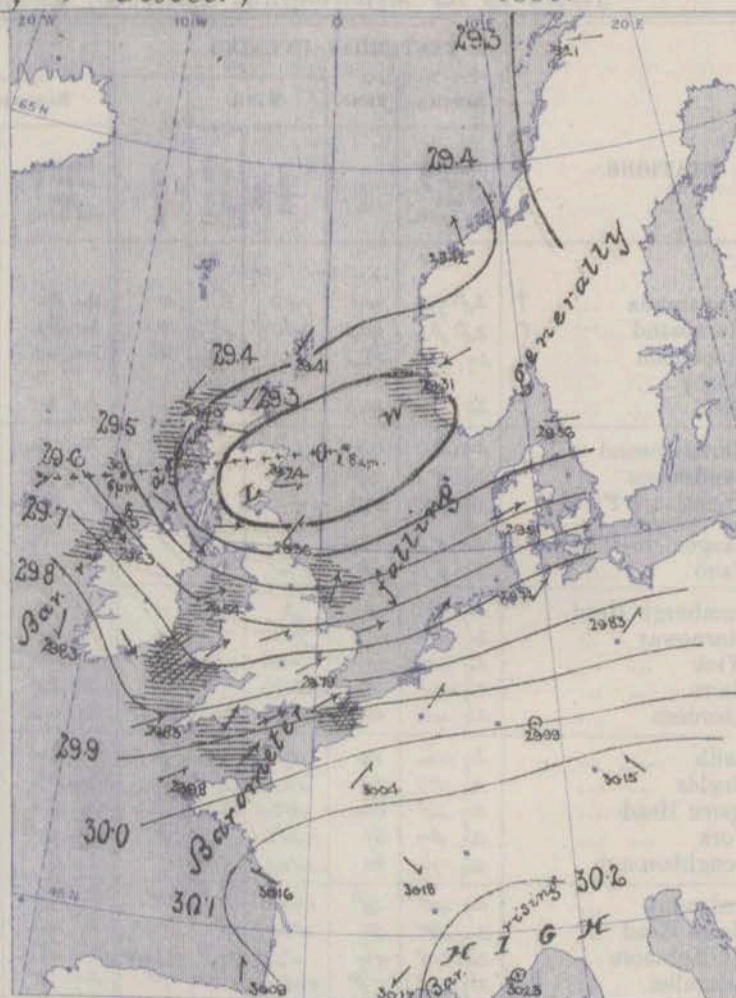
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.708
Stornoway	29.735
Wick	29.745
Nairn	29.761
Aberdeen	29.774
Leith	29.804
Shields	29.835
York	29.872
Loughborough	29.891
Ardrossan	29.813
Donaghadee	29.832
Holyhead	29.853
Liverpool	29.864
Parsonstown	29.881
Valencia	29.873
Roche's Point	29.870
Pembroke	29.868
Scilly	29.894
Jersey	29.904
Hurst Castle	29.907
Dover	29.909
LONDON	29.911
Oxford	29.910
Cambridge	29.900
Yarmouth	29.886



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.

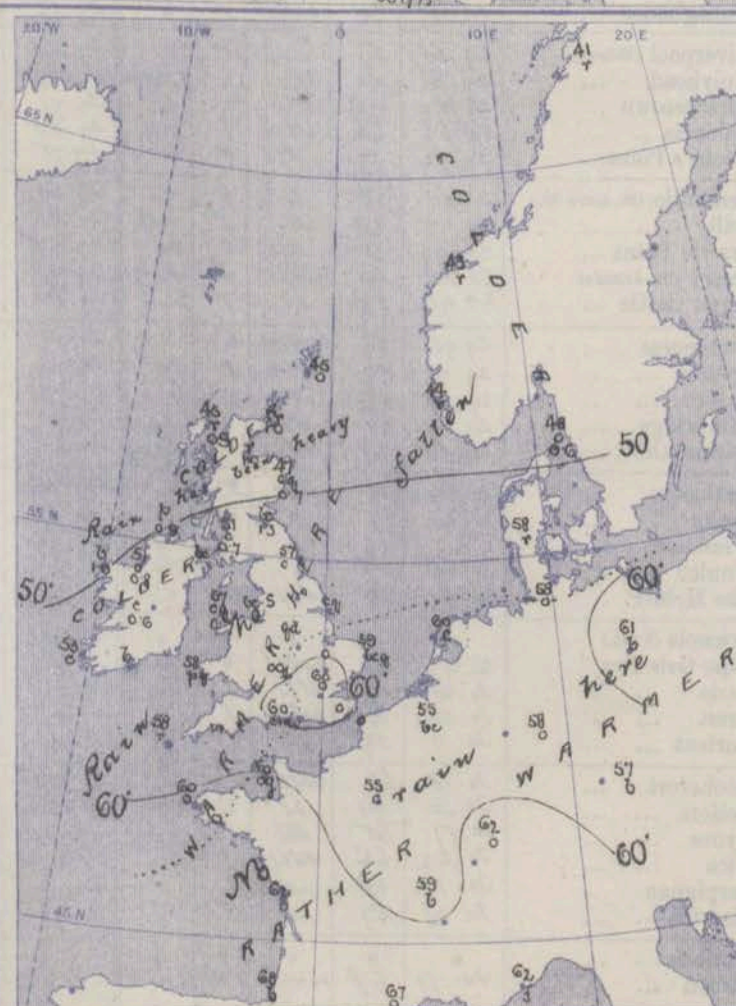
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of October.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	At 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	49.7	41.6	46.0	44.3	4.33
Stornoway	50.5	39.5	45.3	44.1	4.94
Wick	51.6	40.1	46.1	44.3	2.94
Nairn	51.6	40.6	44.5	42.5	2.38
Aberdeen	52.3	41.0	45.5	43.5	2.88
Leith	54.7	41.5	46.5	44.7	1.94
Shields	53.0	42.8	47.1	45.4	2.46
York	54.8	41.0	45.9	44.5	2.64
Loughborough	55.3	41.4	46.4	45.0	2.98
Ardrossan	53.5	43.6	47.6	45.6	4.31
Donaghadee	53.2	43.3	47.7	46.5	3.35
Holyhead	54.5	47.0	50.2	48.2	4.53
Liverpool	53.6	44.6	47.8	45.8	3.62
Parsonstown	54.7	41.1	45.4	44.7	3.27
Valencia	56.6	46.5	51.3	49.1	6.09
Roche's Point	55.8	45.9	50.2	48.4	4.17
Pembroke	54.8	48.0	51.2	49.1	4.13
Scilly	56.6	50.3	53.8	51.7	3.84
Jersey	58.1	49.2	53.6	51.1	4.34
Hurst Castle	57.1	46.0	51.4	49.6	3.24
Dover	55.8	47.0	50.7	48.7	3.28
LONDON	56.6	43.2	48.0	46.4	2.74
Oxford	55.3	42.5	46.7	45.3	2.72
Cambridge	56.4	41.2	46.4	45.4	2.36
Yarmouth	54.3	44.8	49.2	47.9	2.97

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, 30.23 in. at Nise; 30.1 in. and upward, in an anticyclone lying over France and the southern part of Spain and Germany.
 Lowest, 29.3 in. and less, over the north of Scandinavia, and also in an elongated depression extending from Central Scotland to the south of Norway.
 Gradient rather steep over Ireland, England, the Netherlands, and the North Sea, but slight elsewhere.
 Barometer rising briskly in Ireland, and slightly in the west of Norway, but falling elsewhere.

TEMPERATURE

Highest, 68° at Biarritz, 67° at Perpignan, 65° at Linton, 62° at Belfast, 60° at Nice, and 61° at Augsburg, Berlin, and Lorient.
 Lowest, 44° at Bodo, 43° at Christiansund, 44° at Hudsons and 45° at St. Petersburg, St. Petersburg, and Mith.
 The highest maxima registered over our Islands yesterday were 63° at Cambridge and 68° in London; in the north of Scotland the thermometer did not reach 50°.

WIND

Moderate to strong from the NE^{ly} in the north of Scotland and the west of Norway, and from the NW^{ly} in Ireland.
 Strong from the SW^{ly} over England and the southern part of the North Sea, light from the same quarter in Germany and the north of France.
 Since yesterday morning gales from the SW^{ly} have been experienced on many parts of the English and Irish coasts.

WEATHER

Fine in Ireland and the north and east of England, as well as over Germany and Central France.
 B. all elsewhere, with rain in Norway and the north of Scotland, and passing showers in the southwest of England.
 Heavy rain fell yesterday in the northwest and north, the largest amount being 1.3 in. at Leth, and 1.0 in. at Mith, Naim, and Belmullet.

SEA

High at Pembroke and Cape Finneg, and rough or rather so on all the more exposed parts of our coast.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression in the north will probably continue to move eastwards, and in its rear the wind over Scotland is likely to increase to a gale from the northward.

Cooler weather will probably set in over England shortly.

FORECASTS

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

DISTRICTS.

FORECASTS.

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

NE^{ly} to N^{ly} winds, increasing in force; squally, rain at times.
 W^{ly} to NW^{ly} winds, increasing to a gale; squally, showery. Becoming cooler.
 SW^{ly} to W^{ly} gales, moderating gradually; squally, some showers. Becoming cooler.

DISTRICTS.

FORECASTS.

- 1 SCOTLAND WEST
- 2 ENGLAND N.W.
- 3 ENGLAND S.W.
- 4 IRELAND NORTH
- 5 IRELAND SOUTH

Same as Nos 1 and 2.

SW^{ly} to W^{ly} winds, strong; squally, some showers.

NW^{ly} winds, strong, a gale in places; squally, some showers.

WARNINGS

The SOUTH CONE is still flying on all coasts.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND		WEA.	SEA		BAR.	THER.		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.53	52	45	WNW	5	0	5		Holyhead ...	29.72	59	57	SW	6	0 m p
Sumburgh Head ...	29.52	47	42	NW	1	0	4		Valencia ...	29.75	60	59	SW	7	0 m
Stornoway ...	29.51	45	45	W	2	7	2		Seilly ...	29.57	61	60	SW	4	C
Aberdeen ...	29.56	47	45	SE	2	0.2	1		Jersey ...	30.11	59	56	WNW	3	0
Shields ...	29.55	60	57	SW	4	0	2		Dungeness ...	29.57	62	59	W	7	C
Ardrossan ...	29.44	58	57	SW	5	7	4		London ...	29.73	67	60	SW	5	C
Mulin Head ...	29.59	58	57	SW	7	0.7	4		Yarmouth ...	29.86	60	57	WNW	5	C
Mullaghmore ...	29.53	60	59	SW	6	0.9	5		Rochefort ...	30.20	77	70	SW	3	C
Belmullet ...	29.51	59	58	WNW	6	7	*								

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

Weather continuing fine and bright over Southern Europe and the Mediterranean, but falling into a very unsettled condition over the northern and northwestern countries, where it was overcast, and a good deal of rain falling in many places. Heavy rain over the northern and northwestern part of the United Kingdom later, and slight falls at some southern stations; fair in London and over our eastern coasts.

Temperatures changing rather fitfully, but not considerably. Morning readings exceeding 70° over southern parts of Mediterranean only; below 60° over the whole of Northern and Northern Europe, and as low as (?) 33° at Uleaborg, 40° at Archangel and Moscow, 41 at Haparanda, Kuopio, and St. Petersburg, and below 50° over all the northern half of Scandinavia, as well as in Scotland and at Malin Head. Rising to between 60° and 65° over England later, but daily maxima not exceeding 51° at Nain and Aberdeen, and not touching 50° at Wick, Sumburgh Head, & Stromness.

Wind very light and variable and anticyclonic over the Mediterranean and Southern Europe, moderate to a gale and cyclonic in the north and northwest; — (1) W² gale over the eastern part of the North Sea, SW² over the Baltic, strong S² in Finland, light to moderate E² in Lapland; (2) Strong W² and SW² on our western coasts, moderate in the east, light W² over Scotland, moderate SE² at Malin Head and Ardrossan. Increasing to gale from SW² in many parts of Ireland, England, and the Channel later, becoming NE² in Scotland.

Barometer highest, 30.1 ins. to 30.2 ins. and more over Spain, France, Germany, and the whole of Southern Europe as well as the Mediterranean; lowest, 29.8 ins. and less, in a deep depression over Scandinavia, and 29.6 ins. and less, in another depression approaching our northwest coast from the Atlantic. Latter disturbance advancing eastward of the Shetlands later and increasing in depth.

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 2ND OCTOBER.

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. Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Shade Temp.		Wind.		Weather.	Sea. (0 to 5).	Shade Temp.		Amount of Rainfall.		
				Dir.	Force. (0 to 12.)				Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.			Force. (0 to 12.)	Max.		Min.	
SCANDINAVIA.	Haparanda ...	29.28	41	E	2	P	29.25	+05	36	35	-2	W	2	0	•	48	32	0.24	
	Hernösand ...	29.36	40	2	0	bc	29.38	+06	36	35	-1	2	0	0	•	52	?	—	
	Stockholm ...	29.33	43	NE	4	0	29.23	-23	44	44	-3	NE	8	0	•	53	39	0.24	
	Wisby ...	29.39	35	SW	6	bc	29.14	-25	55	54	-1	W	4	0	•	57	46	0.12	
	Bodö ...	29.31	40	E	2	0	29.44	+23	39	37	-2	N	2	0	1	41	39	0.47	
	Christiansund ...	29.44	44	WNW	3	T	29.63	+21	45	42	+2	WNW	4	0	5	46	41	0.51	
	Skudesnaes ...	29.36	46	NNE	2	0	29.73	+42	46	41	+2	NW	7	0	5	48	43	0.28	
	Christiania Fjord (Færdar) ...	29.37	43	N	5	0	29.39	-02	45	42	-4	N	7	0	3	48	43	0.83	
	Skagen (The Scaw) ...	29.26	53	2	0	P	29.20	-16	44	43	-4	NNE	10	0	9	59	43	0.55	
	Fanö ...	29.23	53	WNW	6	C	29.49	-02	47	43	-11	NW	8	0	•	59	46	0.47	
BRITISH ISLANDS.	Sumburgh Head ...	29.62	43	N	3	P	29.55	+58	43	38	-2	N	4	0	4	48	40	0.05	
	Stornoway ...	29.82	45	N	4	C	30.14	+74	41	40	-4	W	2	0	3	49	35	0.30	
	Wick ...	29.66	43	NE	3	C	30.12	+77	44	42	-1	N	3	0	3	48	36	0.15	
	Nairn ...	29.78	46	NNE	4	C	30.16	+87	41	40	-6	SW	2	0	2	48	40	0.44	
	Aberdeen ...	29.64	44	NW	6	bc, fog	30.14	+90	43	40	-4	W	3	0	4	50	39	0.61	
	Leith ...	29.70	48	WNW	2	bc	30.20	+91	42	39	-11	W	3	0	•	57	36	0.12	
	Shields ...	29.60	46	NW	5	0	30.18	+82	40	38	-17	WNW	2	0	4	61	36	0.07	
	Spurn Head ...	29.60	52	W	8	bc, fog	30.20	+72	48	46	-11	WNW	5	0	5	62	45	—	
	York ...	29.52	49	W	4	bc	30.24	+76	43	40	-15	W	1	0	•	60	38	0.03	
	Loughborough ...	29.75	53	WNW	4	C	30.29	+88	45	42	-13	W	1	0	•	64	38	0.08	
GERMANY & HOLLAND.	Ardrossan ...	29.83	49	W	3	bc, fog	30.23	+84	45	45	-2	2	0	0	57	40	0.02		
	Malin Head ...	29.87	50	WNW	5	bc, fog	30.20	+74	40	46	-1	2	0	2	57	45	0.02		
	Mullaghmore ...	30.00	50	NW	6	bc, fog	30.26	+83	45	45	-2	2	0	2	54	45	0.01		
	Belmullet ...	30.06	49	WNW	3	C	30.23	+80	53	48	-4	SW	2	0	•	53	47	0.02	
	Donaghadee ...	29.83	51	NNE	7	bc	30.27	+77	43	42	-7	SW	3	0	1	53	40	0.01	
	Liverpool (Bidston) ...	29.73	52	W	7	C	30.27	+73	50	46	-7	NNE	1	0	2	58	48	0.01	
	Holyhead ...	29.82	53	NW	7	C, fog	30.28	+74	52	47	-5	WNW	1	0	2	58	50	—	
	Parsonstown ...	30.02	48	NW	1	bc	30.31	+60	41	40	-9	2	0	0	53	36	—		
	Valencia ...	30.13	53	N	4	bc	30.34	+51	51	48	-12	SE	2	0	3	57	42	—	
	Roche's Point ...	30.04	54	WNW	4	bc	30.37	+62	46	44	-9	N	1	0	3	57	41	—	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.) ...	29.56	53	NW	6	bc	30.33	+63	52	49	-6	N	1	0	2	58	47	—	
	Scilly ...	30.01	56	N	5	bc	30.33	+58	57	57	-1	NNE	1	0	3	59	53	0.01	
	Prawle Point ...	30.00	52	NW	2	C	30.36	+52	53	51	-4	NW	1	0	1	60	44	0.05	
	Jersey (St. Aubin's) ...	29.55	59	W	4	bc	30.34	+56	55	51	-5	NNE	4	0	3	63	52	0.03	
	Hurst Castle ...	29.88	57	NW	6	bc	30.33	+49	50	47	-10	WNW	2	0	2	62	44	0.02	
	Dungeness ...	29.74	60	WSEW	6	C	30.28	+47	47	44	-14	NW	4	0	3	63	38	0.03	
	London ...	29.81	55	W	3	bc	30.29	+50	46	43	-14	WNW	1	0	•	64	40	—	
	Oxford ...	29.50	49	W	3	bc	30.31	+59	45	43	-13	WNW	1	0	•	63	40	0.04	
	Cambridge ...	29.76	54	W	3	bc	30.30	+60	47	42	-13	NW	1	0	•	64	40	—	
	Yarmouth ...	29.65	54	WNW	6	C, fog	30.18	+51	48	45	-11	NW	4	0	4	63	41	0.06	
PENINSULA.	Cuxhaven ...	29.63	57	SW	8	P	29.60	-14	53	50	-3	NW	9	0	•	61	54	0.12	
	Berlin ...	29.78	63	WNW	3	bc	29.67	-16	52	47	-9	WNW	7	0	•	75	50	0.20	
	Wiesbaden ...	30.08	64	SW	2	C	30.08	+09	53	49	-5	W	4	0	•	72	50	—	
	Munich ...	30.10	64	SW	2	C	30.07	+08	59	56	+2	SW	5	0	•	73	57	0.04	
	The Helder ...	29.61	57	WNW	7	bc	30.01	+31	54	48	-6	NW	5	0	4	73	52	0.24	
	Brussels (9 a.m.) ...	29.80	60	W	8	bc	30.20	+28	50	48	-5	W	2	0	•	58	45	0.08	
	Cape Gris Nez ...	29.97	61	SW	2	bc	30.22	+35	48	44	-11	WNW	4	0	5	63	46	0.04	
	Paris ...	30.06	62	SW	4	0	30.25	+21	47	45	-1	SW	1	0	•	65	46	0.04	
	Brest ...	30.04	60	W	4	0	30.32	+29	53	49	-8	NNE	3	0	3	63	43	—	
	Lorient ...	30.04	60	W	4	0	30.32	+29	53	49	-8	NNE	3	0	3	63	43	—	
FRANCE AND BELGIUM.	Rochefort ...	30.16	65	W	3	0	30.31	+15	60	59	-2	NNE	4	0	9	70	54	—	
	Belfort ...	30.30	62	W	1	0	30.25	+07	60	57	+1	W	1	0	•	75	53	0.32	
	Lyons ...	30.08	65	SW	1	0	30.12	-11	60	60	-2	N	1	0	•	70	57	—	
	Nice ...	30.17	63	2	0	30.22	+05	64	62	-3	W	2	0	•	72	59	—		
	Perpignan ...	30.13	68	1	0	30.22	+05	64	62	-3	W	2	0	•	76	59	—		
	Biarritz ...	30.10	68	NW	4	0	30.29	+20	65	64	-3	W	2	0	2	75	61	—	
	Corunna ...	30.16	66	WNW	4	0	30.21	+10	62	61	-3	NNE	2	0	•	70	61	—	

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

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for 8 a.m. on

Thursday, 2nd October,

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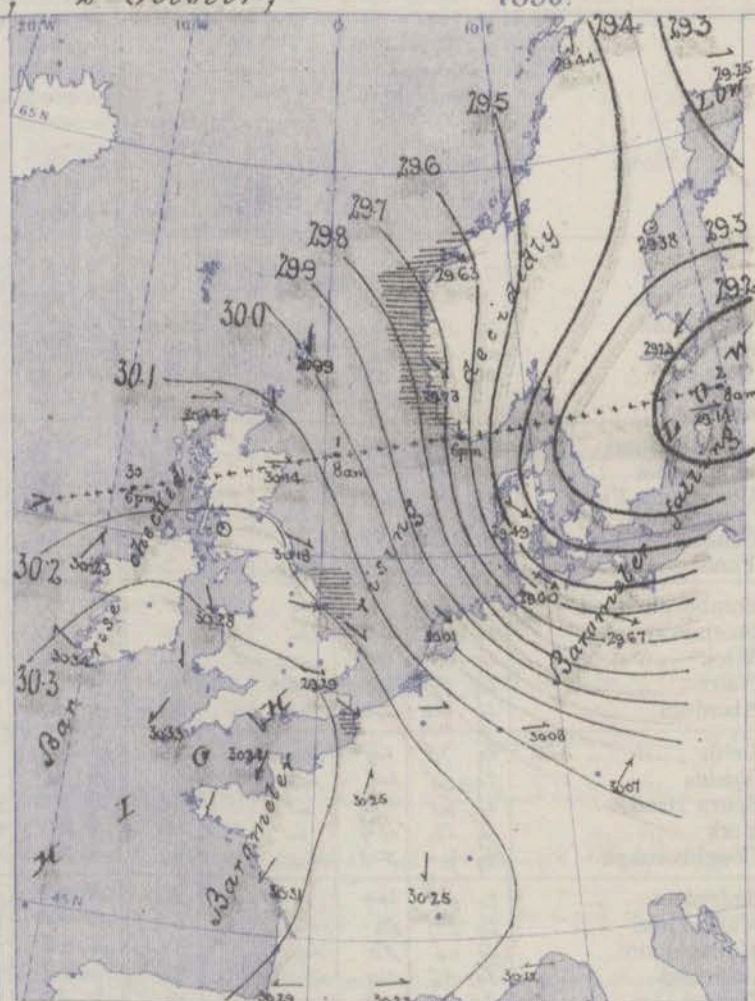
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Parsonstown	29.881
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Roche's Point	29.870
Pembroke	29.868
Scilly	29.894
Jersey	29.904
Hurst Castle	29.907
Dover	29.909
LONDON	29.911
Oxford	29.910
Cambridge	29.900
Yarmouth	29.886



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 October.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	49.7	41.6	46.0	44.3	4.33
Stornoway	50.6	39.5	45.5	44.1	4.94
Wick	51.6	40.1	46.1	44.3	2.94
Nairn	51.6	40.6	44.5	42.5	2.38
Aberdeen	52.3	41.0	45.5	43.5	2.88
Leith	54.7	41.5	46.5	44.7	1.94
Shields	53.0	42.8	47.1	45.4	2.46
York	54.8	41.0	45.9	44.5	2.64
Loughborough	55.3	41.4	46.4	45.0	2.98
Ardrossan	53.5	43.6	47.6	45.6	4.31
Donaghadee	53.2	43.3	47.7	46.5	3.35
Holyhead	54.5	47.0	50.2	48.2	4.53
Liverpool	53.6	44.6	47.8	45.8	3.02
Parsonstown	54.7	41.1	48.4	44.7	3.27
Valencia	50.6	46.5	51.3	49.1	6.09
Roche's Point	55.8	45.9	50.2	48.4	4.17
Pembroke	54.8	48.0	51.2	49.1	4.13
Scilly	55.6	50.3	53.8	51.7	3.84
Jersey	58.1	49.2	53.6	51.1	4.34
Hurst Castle	57.1	48.0	51.4	49.6	3.24
Dover	55.8	47.0	50.7	48.7	3.28
LONDON	56.6	43.2	48.0	46.4	2.74
Oxford	55.3	42.5	46.7	45.3	2.72
Cambridge	56.4	41.2	46.4	45.4	2.36
Yarmouth	54.3	44.8	49.2	47.9	2.97

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	<p>Highest, 30.3 in. and upwards, in an anticyclone lying over the Bay of Biscay, the west of France, and the southern and southern parts of our Islands.</p> <p>Lowest, 29.2 in. and less, in a depression lying over the northern part of the Baltic.</p> <p>Gradients steep over Denmark, Germany, and the eastern parts of the North Sea, but slight elsewhere.</p> <p>Barometer rising at all but the Swedish and German stations, but rise slackening in the extreme west.</p>
TEMPERATURE	<p>Highest, 65° at Biarritz, 64° at Perpignan, 62° at Lisbon, 60° at Belfast, Rochefort, and Nice, and 59° at Munich.</p> <p>Lowest, 36° at Apatzunda and Hemisland, 35° at Bodø, 40° at Shields, and 41° at Stromness, Naun, and Parnaston.</p> <p>The minima registered over our Islands last night were low for the time of year; in London the thermometer on the grass fell to 30°.</p>
WIND	<p>Strong to a gale from the NW^W over Germany and the eastern shores of the North Sea, light or moderate from the same quarter over the greater part of England.</p> <p>Light from the SW^W in Ireland, and from the W^W in Scotland.</p> <p>E or NE in the west of France; variable in the south of that country.</p>
WEATHER	<p>Fine generally, with heavy dew over England, but rainy at all the Norwegian stations and in the south of Sweden.</p> <p>Rain fell yesterday on all but our southwest coast, and solar and lunar halo were seen in some parts of Ireland and England.</p>
SEA	<p>Rather rough off the west of Norway and also at Spinn Hnd and C. J. Hnd, but slight or smooth elsewhere.</p>

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Fresh disturbances will probably appear off our western coasts shortly, and increasing S^W winds are therefore likely in Ireland, with rain in the west and northwest generally. In the east and southeast the weather will probably remain fine for a time, but conditions are not settled.

FORECASTS

For the 24 hours ending at NOON on 3rd OCT^r 1890.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	$\left\{ \begin{array}{l} W^{\frac{1}{2}} \text{ to } SW^{\frac{1}{2}} \text{ or } S^{\frac{1}{2}} \text{ winds, fine to cloudy} \\ \text{and some rain.} \end{array} \right.$	6 SCOTLAND WEST	Same as No 0 and 1.
1 SCOTLAND EAST		7 ENGLAND N.W.	Same as No 2
2 ENGLAND N.E.	W ¹ to SW ¹ winds, moderate; fine to cloudy.	8 ENGLAND S.W.	NW ¹ winds, light, to SW ¹ , fresh; fine generally.
3 ENGLAND EAST	$\left\{ \begin{array}{l} NW^{\frac{1}{2}} \text{ to } W^{\frac{1}{2}} \text{ winds, light; fine generally} \\ \text{Ground frost tonight.} \end{array} \right.$	9 IRELAND NORTH	$\left\{ \begin{array}{l} S^{\frac{1}{2}} \text{ winds, freshening; fine to dull} \\ \text{and some rain.} \end{array} \right.$
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	The SOUTH CONE has been lowered this morning in districts 0 and 1.

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

The North Cone, point upwards (\Uparrow), 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 ...	29.26	48	45	NNE	4	0	4	Holyhead ...	29.73	54	48	WNW	7	cq	6
Sumburgh Head ...	29.50	47	44	NNE	3	0	3	Valencia ...	29.23	56	49	WNW	4	bcq	4
Stornoway ...	29.68	48	47	N	5	c	6	Scilly ...	29.91	57	53	WNW	5	c	4
Aberdeen ...	29.45	44	43	N	7	oqp	6	Jersey ...	29.75	63	60	WNW	5	oq	5
Shields ...	29.40	53	49	W	4	0	3	Dungeness ...	29.79	62	61	WNW	7	0	6
Ardrossan ...	29.51	57	53	W	5	bcq	4	London ...	29.73	63	60	WNW	7	bcq	8
Malin Head ...	29.71	48	47	WNW	7	cqp	5	Yarmouth ...	29.64	63	58	WNW	6	cq	4
Mullaghmore ...	29.83	53	49	WNW	7	bcq	6	Rochefort ...	29.7	65	64	WNW	5	m	?
Belmullet ...	29.73	53	49	WNW	5	bc	*								

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

Weather fine and bright over Southeastern Europe and the Mediterranean, foggy or hazy in the south of France, cloudy over the most northern Departments, equally, cloudy, and unsettled over the southern parts of our Islands, the Channel and North Sea, very rainy, equally, and rough over our northern districts and Northern Europe generally. Rain continuing heavy in latter regions during day, some showers in south of England and north of France.

Temperature beginning to fall in the British Islands, rising fast over Central Russia. Morning readings as high as 70° on the southern shores of the Mediterranean only, and above 60° over Spain, the west and south of France, the Adriatic, and some parts of the English Channel. Much lower elsewhere— as low as 36° at Archangel, 38° at Kapananda, 41° at Kuopio, and below 50° over Scotland and northern Europe generally. Rising to 70° and more over Germany and the west and south of France later, not reaching 50° in the north of Scotland.

Wind very light, variable, and anticyclonic over the southern countries of Europe, strong and cyclonic further to the northward. Strong NW winds prevalent in Ireland, W and SW (a gale in places) over England and the Channel, SW in the Netherlands and over the Baltic, E at Rode, NE in the north of Scotland. N gale in East of Scotland in afternoon, and wind veering to NW and N in the south and west of our Islands.

Barometer highest, 30.1 ins. to 30.2 ins. and more, over the Mediterranean, southern, and southeastern Europe; lowest 29.1 ins. and less, in a depression over Finland and the north of Russia, 29.3 ins. and less, in another off the east of Scotland; apparently somewhat higher to the northward of Scotland. Rising rapidly over the north and west of our Islands later, as the last named depression moved off towards the south of Norway.

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).

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

DAILY WEATHER REPORT.

for **FRIDAY 3RD OCTOBER.** 1890.
 Issued by the Meteorological Office, 53, Victoria Street, London. **R. H. SCOTT, Secretary.**

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM. Reading at 3 rd P. and Sea Level.	TEMP. Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 6.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12.)		Reading at 8 a.m. 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 ...	29.37	36	E	4	0	29.37	+13	34	33	-2	N	4	C	•	41	30	—
	Hernösand ...	29.54	41	N	8	6	29.62	+24	37	32	+1	NNW	6	G	•	50	30	—
	Stockholm ...	29.42	40	NNW	8	7	29.69	+46	37	33	-7	NNW	6	G	•	45	37	0.91
	Wisby ...	29.66	41	N	4	C	29.65	+21	35	33	-4	E	2	G	1	42	34	0.08
	Bodö ...	29.86	40	NW	5	C	29.67	+04	42	39	-3	ENE	3	C	3	45	41	0.08
	Christiansund ...	29.99	48	NW	6	T	29.63	-10	47	46	+1	SE	8	P	5	50	45	0.28
	Christiana Fjord (Færder) ...	29.82	49	NNW	5	G	29.81	+42	47	42	+2	Z	0	O	2	54	45	—
	Skagen (The Seaw) ...	29.85	51	N	2	G	29.84	+64	49	43	+5	NW	2	O	3	54	43	—
	Fanø ...	29.57	48	NW	6	C	29.77	+50	50	48	+3	W	4	C	•	54	46	0.04
	Sumburgh Head ...	30.00	43	Z	0	O	29.41	-38	54	54	+11	N	4	O	5	54	43	0.60
BRITISH ISLANDS.	Stornoway ...	29.78	50	SW	8	T	29.57	-57	57	57	+16	SW	7	T	6	57	39	1.75
	Wick ...	29.57	45	2	4	T	29.55	-57	56	56	+12	SW	1	T	1	56	42	0.72
	Nairn ...	29.79	45	W	1	T	29.63	-53	57	56	+16	SW	5	T	4	57	40	0.54
	Aberdeen ...	30.12	44	2	2	T or m	29.66	-48	60	58	+17	SW	4	C or P	3	60	43	0.18
	Leith ...	30.15	51	W	1	O	29.82	-37	58	55	+16	W	6	C	3	58	44	0.01
	Shields ...	30.23	52	W	2	O	29.95	-23	56	53	+16	SW	4	O	4	56	37	—
	Spurn Head ...	30.30	55	SW	3	C	30.10	-10	53	50	+5	NNW	5	G	•	55	46	—
	York ...	30.32	53	W	1	C	30.10	-14	53	50	+10	SW	1	C	•	58	41	—
	Loughborough ...	30.35	53	NNW	1	C	30.23	-06	52	48	+7	NNW	4	G	•	63	40	—
	Ardrossan ...	30.14	54	SW	3	P	29.95	-28	58	55	+9	SW	6	O	4	59	49	0.01
GERMANY & HOLLAND.	Malin Head ...	30.01	54	SW	6	O or m	29.89	-31	56	55	+8	SW	6	O or m	4	56	48	—
	Mullaghmore ...	30.14	55	SW	6	O or m	30.03	-23	56	54	+7	SW	7	C	6	57	48	—
	Belmullet ...	30.13	55	NNW	7	G	30.05	-18	56	56	+3	NNW	5	C	5	57	50	0.02
	Donaghadee ...	30.19	52	SW	3	bc	30.06	-21	56	54	+13	SW	5	C	3	57	43	—
	Liverpool (Bidston) ...	30.31	52	SW	2	bc	30.16	-11	57	52	+7	NNW	4	G	4	57	48	—
	Holyhead ...	30.30	53	SW	4	C	30.18	-10	57	53	+5	SW	6	bc	•	58	52	—
	Parsonstown ...	30.26	54	NNW	1	bc	30.19	-12	52	50	+11	SW	1	bc	•	58	40	—
	Valencia ...	30.32	55	2	5	bc	30.26	-08	58	55	+7	NNW	4	O	4	58	49	—
	Roche's Point ...	30.35	55	NNW	3	bc	30.26	-11	58	53	+12	NNW	4	C	4	59	46	—
	Pembroke (St. Ann's Hd.) ...	30.38	54	W	4	G	30.31	-02	57	55	+5	SW	5	C or m	5	57	52	—
FRANCE AND BELGIUM.	Scilly ...	30.40	54	SW	1	C	30.35	+02	57	54	0	SW	3	bc	2	57	51	—
	Prawle Point ...	30.43	53	NNW	1	G	30.40	+04	55	53	+2	SW	4	G	3	61	51	—
	Jersey (St. Aubin's) ...	30.43	56	N	3	G or m	30.42	+08	56	53	+1	SW	3	bc or m	2	62	43	—
	Hurst Castle ...	30.42	55	NNW	2	G	30.38	+08	57	51	+3	NNW	3	bc	2	61	48	—
	Dungeness ...	30.39	57	NNW	3	bc	30.34	+06	56	53	+9	NNW	5	bc	3	62	43	—
	London ...	30.40	49	NNW	1	G	30.33	+04	50	46	+4	W	3	G	•	61	44	—
	Oxford ...	30.40	49	NNW	2	G	30.31	0.0	51	48	+6	SW	3	G	•	61	45	—
	Cambridge ...	30.37	49	NNW	1	G	30.26	-04	53	50	+6	SW	2	G	•	63	47	—
	Yarmouth ...	30.33	53	2	0	G	30.20	+02	51	49	+3	W	5	G	3	55	45	—
	Cuxhaven ...	30.11	53	NW	6	P	30.13	+53	50	49	-5	SW	3	O	•	54	49	0.05
PENINSULA.	Berlin ...	30.08	49	NNW	6	G	30.21	+54	48	46	-4	NNW	5	O	•	61	45	0.08
	Wiesbaden ...	30.29	49	NW	4	G	30.42	+34	44	42	-9	Z	0	G	•	63	39	—
	Munich ...	30.29	49	NW	4	G	30.43	+36	43	42	-16	W	2	G	•	59	39	—
	The Helder ...	30.31	54	NNW	3	C	30.37	+16	55	51	+1	NNW	6	C	4	55	54	—
	Brussels (9 a.m.) ...	30.39	54	NW	3	bc	30.39	+19	46	43	-4	SW	3	bc	•	58	40	0.04
	Cape Gris Nez ...	30.38	54	NW	3	bc	30.38	+16	56	53	+8	NNW	6	G	4	59	46	—
	Paris ...	30.43	49	NNE	2	G	30.48	+23	37	37	-10	SW	1	G	•	61	36	—
	Brest ...	30.38	57	ENE	2	O	30.41	+09	52	51	+5	ENE	2	bc	3	75	46	—
	Lorient ...	30.39	59	NNW	1	bc	30.41	+09	52	50	-1	E	2	bc	2	76	48	—
	Rocheport ...	30.41	62	N	3	G	30.45	+14	51	49	-9	ENE	3	C	•	73	45	—
GERMANY & HOLLAND.	Belfort ...	30.36	57	N	1	C	30.46	+21	47	44	-13	N	1	O	•	69	40	—
	Lyons ...	30.08	62	SW	3	G	30.23	+11	61	59	+1	NNE	4	G	•	60	42	—
	Nice ...	30.26	70	N	2	O	30.33	+11	59	57	-5	N	1	bc	•	73	57	—
	Perpignan ...	30.32	67	NNE	3	O	30.36	+07	63	62	-2	SW	2	O	2	73	54	—
	Biarritz ...	30.32	67	NNE	3	O	30.36	+07	63	62	-2	SW	2	O	2	73	54	—
PENINSULA.	Corunna ...	30.23	69	NNW	4	G	30.26	+05	64	61	+2	NNE	3	G	•	70	9	—
	Lisbon ...	30.23	69	NNW	4	G	30.26	+05	64	61	+2	NNE	3	G	•	70	9	—

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, 3^d October,

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.

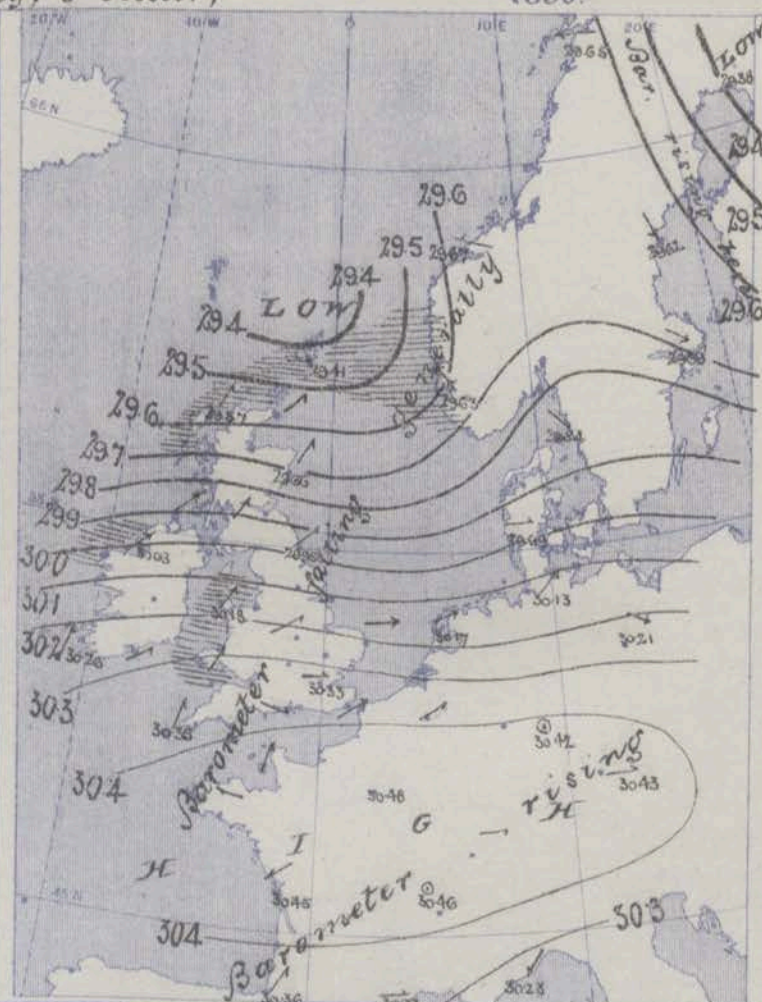
SEA DISTURBANCE—Where considerable, is shown thus:

— = Rough. — = High.

MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.708
Stornoway	29.735
Wick	29.745
Nairn	29.761
Aberdeen	29.774
Leith	29.804
Shields	29.835
York	29.872
Loughborough	29.891
Ardrossan	29.813
Donaghadee	29.832
Holyhead	29.853
Liverpool	29.864
Parsonstown	29.881
Valencia	29.873
Roche's Point	29.870
Pembroke	29.868
Seilly	29.894
Jersey	29.904
Hurst Castle	29.907
Dover	29.909
LONDON	29.911
Oxford	29.910
Cambridge	29.900
Yarmouth	29.886



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.

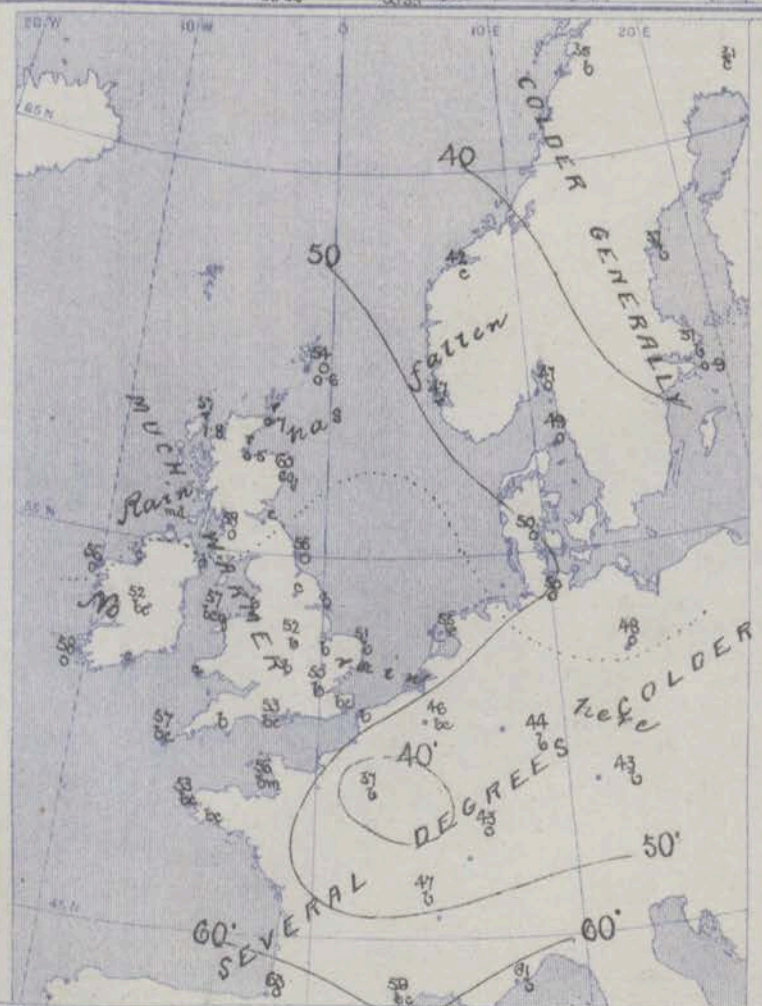
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of October.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily	Daily	at 8 a.m.		
	Max.	Min.	Dry.	Wet.	
Sumburgh Head.....	49.7	41.6	40.0	44.3	4.33
Stornoway.....	50.5	39.5	45.3	44.1	4.94
Wick.....	51.6	40.1	46.1	44.3	2.94
Nairn.....	51.6	40.8	44.5	42.5	2.38
Aberdeen.....	52.3	41.0	45.5	43.5	2.88
Leith.....	54.7	41.5	46.5	44.7	1.94
Shields.....	53.0	42.8	47.1	45.4	2.46
York.....	54.8	41.0	45.9	44.5	2.64
Loughborough.....	55.3	41.4	46.4	45.0	2.98
Ardrossan.....	53.5	43.6	47.6	45.6	4.31
Donaghadee.....	53.2	43.3	47.7	46.5	3.35
Holyhead.....	54.5	47.0	50.2	48.2	4.63
Liverpool.....	53.6	44.6	47.8	45.8	3.02
Parsonstown.....	54.7	41.1	45.4	44.7	3.27
Valencia.....	56.6	46.5	51.3	49.1	6.09
Roche's Point.....	55.8	45.9	50.2	48.4	4.17
Pembroke.....	54.8	48.0	51.2	49.1	4.13
Seilly.....	56.6	50.3	53.8	51.7	3.84
Jersey.....	58.1	49.2	53.6	51.1	4.34
Hurst Castle.....	57.1	46.0	51.4	49.6	3.24
Dover.....	55.8	47.0	50.7	48.7	3.28
LONDON.....	56.6	43.2	48.0	46.4	2.74
Oxford.....	55.3	42.5	46.7	45.3	2.72
Cambridge.....	56.4	41.2	46.4	45.4	2.38
Yarmouth.....	54.3	44.8	49.2	47.9	2.97

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 in: in an anticyclone lying over the Channel, France, and South Germany.
 Lowest, 29.4 in: and less, in Lapland, and also in a depression lying to the northward of the Shetlands.
 Gradients steep over the northern part of our Islands and the North Sea, but moderate or slight elsewhere.
 Barometer falling at all but the Swedish, German, and French stations, — quickly in the north of our Islands.

TEMPERATURE

Highest, 63° at Kilmory, 61° at Kize, 60° at Aberdeen, 59° at Loughmaw, and 58° at Leth, Ardara, Valencia Islands, and Rock Point.
 Lowest, 34° at Hafnarvordur, 35° at Christianmünd, 37° at Hemöland, Stockholm and Paris, and 43° at Belfast and Munich.
 A considerable rise has taken place in the north and northeast of Great Britain, the change since yesterday amounting to 17° at Hemöland.

WIND

Strong from the SW. in the northwest of our Islands, and moderate or fresh from the same quarter at our western and northern stations generally.
 Light to fresh from the W. over Denmark, North Germany, and the southeast of England.
 SE. in the west of Norway, with a gale at Skudenes; strong from NW in Sweden, light from NE. in the east and south of France.

WEATHER

Cloudy or overcast in all the more northern parts of our Islands, and also in Norway, Denmark, and North Germany, with rain in the north of Scotland as well as at Skudenes.
 Fine in all other parts of Western Europe.
 Heavy rain has fallen in the extreme north the largest amount being 1.8 in: at Stenouay. Solar and lunar halos were seen yesterday in various parts of the Kingdom.

SEA

Rough at several of our western and extreme northern stations, but moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The large depression in the north seems likely to travel eastwards. A further increase of wind will probably take place on our more northern coasts, and cloudy unsettled weather is likely to extend shortly to our southern stations.

FORECASTS

For the 24 hours ending at NOON on 4th OCT^r 1890.

DISTRICTS.

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

FORECASTS.

1 SW. to W. or NW. winds, strong to a gale; squally, rain at times.
 2 SW. to W. winds, strong to a gale; squally, some rain.
 3 SW. and W. winds, increasing in force; fine to cloudy and showery.

DISTRICTS.

- 1 SCOTLAND WEST
- 2 ENGLAND N.W.
- 3 ENGLAND S.W.
- 4 IRELAND NORTH
- 5 IRELAND SOUTH

FORECASTS.

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

WARNINGS.

SW. to W. winds, strong; squally, showery.
 The SOUTH CONE was hoisted yesterday in districts 0.1.2.6.7.9.10. and part of 8.

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

YESTERDAY'S 2 P.M. REPORTS.

THER: WIND								THER: WIND							
	BAR:	D.	W.	D.	F.	WEA	SEA		BAR:	D.	W.	D.	F.	WEA	SEA
Skudesnaes ...	29.91	50	45	NW	3	C	5	Holyhead ...	30.35	56	50	SW	3	bc	2
Sumburgh Head ...	30.05	43	39	NNW	3	0	4	Valencia ...	30.34	55	52	S	5	cm	4
Stornoway ...	30.05	46	46	SW	4	7	4	Scilly ...	30.40	58	55	ENE	1	bc	3
Aberdeen ...	30.21	48	43	WNW	2	0	3	Jersey ...	30.42	60	53	ENE	3	bc	3
Shields ...	30.25	52	45	WNW	2	C	4	Dungeness ...	30.38	61	58	NNE	3	bc	2
Ardrossan ...	30.21	59	54	SW	4	0	3	London ...	30.38	61	52	WNW	2	bc	2
Malin Head ...	30.17	51	48	SW	5	0	2	Yarmouth ...	30.30	55	49	NW	4	bc	5
Mullaghmore ...	30.22	54	50	SW	6	0	2	Rochefort ...	30.39	70	63	NNE	3	bc	2
Belmullet ...	30.19	56	51	WNW	3	C	*								

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

Weather fine in nearly all parts of western, southern and eastern Europe as well as at the Algerian stations. Raining in Norway, Denmark, the south of Sweden and eastern Germany; dull over the northern and central parts of Russia. Some improvement taking place later in Norway and Denmark, but dull, rainy weather settling in over the northern parts of the United Kingdom. Solar and lunar halos seen at several of the British and Irish stations.

Temperature highest, 72° at Barcelona, Palma, and Algiers, 71° at Brindisi, and Tunis and 70° at Palermo and Ispah; above 60° over southern and eastern Europe generally. Lowest 32° at Archangel, 36° at Haparanda and Umeå, 39° at Rodo, and 40° at Shields. Below 45° over Scotland and central Ireland. Daily maxima below 60° in all the more western, northern, and eastern parts of the United Kingdom, but thermometer exceeding 70° at most of the French stations.

Wind light from the NWnd over England, strong to a gale from the same quarter or from N. in Denmark and the south of Norway; strong to a gale from the Wnd or SWnd in Germany. Light from the SWnd over Western Russia and also in Ireland. Light or moderate from the NEnd in Spain and the west of France; variable in Austria, Italy, and Algeria. Subsequently increasing to a moderate or fresh gale from the SWnd in the extreme northwest of our Islands; gale subsiding in Denmark and Germany.

Barometer highest 30.2 in. to 30.3 in. and upwards, in a large anticyclone lying over England, Ireland, France, and Spain, lowest 29.2 in. and less, in a depression lying over the south of Sweden, 29.3 in. and less in another disturbance over Lapland. Gradient steep over Denmark, Germany, and the eastern parts of the North Sea. Swedish depression subsequently moving away backwards, but next disturbance approaching the northwest of Scotland, and barometer falling quietly on our north and northwest 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 *Saturday, 4th October, 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.		Sea. (0 to 12.)	SHADE TEMP.		Amount of Rainfall.		
				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.)		Weather.	Max.		Min.	
SCANDINAVIA.	Haparanda ...	29.31	32	NE	4	bc	29.32	- .06	29	29	- 5	new	4	bc	*	37	28	-	
	Hernösand ...	29.47	30	W	0	b	29.52	- .10	32	?	- 5	new	2	b	*	?	28	-	
	Stockholm ...	29.47	33	E	2	o	29.49	- .20	39	37	+ 2	new	2	o	*	45	?	-	
	Wisby ...	29.45	43	N	4	+	29.45		45	44		NE	4	+	*	48	36	0.32	
	Bodö ...	29.57	32	W	0	b	29.59	- .06	30	27	- 5	E	2	b	*	39	27	-	
	Christiansund ...	29.71	44	ESE	3	o	29.59	- .08	39	38	- 3	SE	1	b	3	40	39	-	
	Skudeanaes ...	29.48	54	new	7	T	29.54	+ .01	53	51	+ 6	new	6	o	5	54	?	0.55	
	Christiania Fjord (Færdar) ...	29.37	45	new	3	o	29.54	- .27	44	42	- 3	new	3	o	5	?	43	0.20	
	Skagen (The Scaw) ...	29.35	54	new	4	b	29.52	- .32	54	50	+ 3	new	6	b	4	55	46	0.24	
	Fanø ...	29.71	57	W	7	o	29.79	- .20	56	53	+ 6	new	6	b	*	57	50	0.59	
BRITISH ISLANDS.	Sumburgh Head ...	29.48	51	W	5	T	29.65	+ .24	51	50	- 3	W	4	o	5	55	49	0.19	
	Stornoway ...	29.68	55	W	4	o	29.85	+ .28	52	52	- 5	SW	4	o	4	57	50	0.20	
	Wick ...	29.63	52	new	2	bc	29.83	+ .28	53	50	- 3	new	4	c	3	56	48	0.17	
	Nairn ...	29.72	55	new	4	c	29.87	+ .24	54	51	- 3	SW	1	b	1	58	50	0.24	
	Aberdeen ...	29.73	58	W	2	c	29.90	+ .24	53	49	- 7	SW	2	bcnw	2	66	51	0.01	
	Leith ...	29.84	59	W	5	o	29.94	+ .11	57	55	- 1	W	4	c	*	61	57	0.01	
	Shields ...	29.92	61	W	5	c	29.97	+ .02	59	57	+ 3	W	4	c	2	63	54	-	
	Spurn Head ...	30.05	58	new	5	b	30.08	- .02	57	55	+ 4	new	3	o	3	64	52	-	
	York ...	30.07	59	W	3	b	30.08	- .02	57	56	+ 4	W	3	o	*	66	52	-	
	Loughborough ...	30.17	58	new	3	b	30.17	- .06	56	53	+ 4	W	3	bcw	*	68	51	-	
GERMANY & HOLLAND.	Ardrossan ...	29.92	56	SW	4	d	30.00	+ .08	55	54	- 3	new	2	om	1	58	55	0.02	
	Malin Head ...	29.89	56	SW	6	od	29.98	+ .09	56	56	0	SW	4	od	3	57	52	0.11	
	Mullaghmore ...	30.03	58	SW	7	o	30.07	+ .04	57	57	+ 1	SW	4	o	3	59	56	0.03	
	Belmullet ...	30.05	57	new	7	o	30.08	+ .03	57	57	+ 1	SW	3	o	*	58	55	0.11	
	Donaghadee ...	30.02	60	new	4	o	30.07	+ .01	58	57	+ 2	W	5	bc	3	64	55	-	
	Liverpool (Bidston) ...	30.11	56	new	5	b	30.15	- .01	56	54	- 1	new	3	o	3	62	55	-	
	Holyhead ...	30.14	57	SW	6	bcq	30.15	- .03	57	55	0	new	1	cq	2	61	55	-	
	Parsonstown ...	30.14	59	SW	1	c	30.17	- .02	55	55	+ 3	W	0	o	*	64	50	0.04	
	Valencia ...	30.22	58	new	3	om	30.22	- .04	58	57	0	new	2	om	2	61	55	0.05	
	Roche's Point ...	30.21	58	new	4	o	30.20	- .06	59	57	+ 1	new	3	c	3	60	54	-	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.) ...	30.26	56	SW	4	o	30.22	- .09	57	57	0	new	3	dm	3	58	56	0.07	
	Soilly ...	30.32	58	SW	3	c	30.28	- .07	58	58	+ 1	SW	2	o	*	62	52	-	
	Prawle Point ...	30.32	56	W	4	bc	30.30	- .10	56	55	+ 1	W	4	m	2	59	53	0.02	
	Jersey (St. Aubin's) ...	30.39	61	SW	3	b	30.35	- .07	58	54	+ 2	W	3	cw	3	64	47	-	
	Hurst Castle ...	30.31	58	new	6	b	30.28	- .10	59	58	+ 6	new	5	c	3	62	52	-	
	Dungeness ...	30.26	59	W	6	b	30.25	- .09	56	53	0	new	4	c	4	63	53	-	
	London ...	30.25	58	SW	3	b	30.22	- .11	57	54	+ 7	new	3	o	*	67	49	-	
	Oxford ...	30.26	53	SSW	1	b	30.23	- .08	56	53	+ 5	new	1	b	*	63	51	-	
	Cambridge ...	30.17	58	SW	4	b	30.19	- .07	57	53	+ 4	W	1	b	*	68	45	-	
	Yarmouth ...	30.09	61	W	5	b	30.12	- .08	54	52	+ 3	new	5	bcw	3	65	49	-	
PENINSULA.	Cuxhaven ...	29.96	58	new	7	a	29.92	- .21	59	69	+ 9	new	6	b	*	59	?	0.04	
	Berlin ...	29.93	55	W	6	o	29.92	- .29	54	53	+ 6	W	5	+	*	57	?	0.08	
	Wiesbaden ...	*	*	*	*	*	30.27	- .15	50	45	+ 6	W	2	b	*	63	41	-	
	Munich ...	30.39	48	W	5	b	30.34	- .09	48	44	+ 5	SW	3	b	*	57	43	-	
	The Helder ...	30.05	60	new	5	b	30.08	- .09	58	55	+ 3	W	3	c	3	61	55	-	
	Brussels (Balm.) ...	*	*	*	*	*	30.22	- .16	55	53	- 1	new	6	c	*	63	52	-	
	Cape Gris Nez ...	30.31	59	SW	6	bc	30.37	- .11	37	37	0	SSW	1	b	*	64	34	-	
	Paris ...	30.39	52	S	2	c	30.34	- .04	38	35	+ 5	W	0	o	2	68	45	-	
	Brest ...	30.32	64	SW	2	c	30.34	- .04	53	52	+ 1	ESE	1	o	4	66	50	-	
	Lorient ...	30.39	59	S	1	b	30.37	- .04	53	52	+ 1	ESE	1	o	4	66	50	-	
FRANCE AND BELGIUM.	Rochefort ...	30.42	64	ESE	3	b	30.40	- .05	52	51	+ 1	SE	3	b	*	79	45	-	
	Belfort ...	30.27	67	SE	1	b	30.31	- .04	46	36	+ 1	SE	1	b	*	75	34	-	
	Lyons ...	30.43	54	new	1	b	30.42	- .04	45	44	- 2	N	1	b	*	62	44	-	
	Nice ...	30.27	64	W	2	bc	30.30	+ .07	61	56	0	E	2	b	0	75	59	-	
	Perpignan ...	30.31	68	N	1	c	30.33	- .00	55	52	- 4	SW	2	b	*	81	52	-	
	Biarritz ...	30.34	65	NE	2	b	30.33	- .03	59	58	- 4	SW	2	m	2	72	57	-	
	Corunna ...	*	*	*	*	*	30.26	- .00	64	63	0	NNE	3	o	2	77	64	-	
	Laredo ...	30.30	69	new	2	b	30.26	- .00	64	63	0	NNE	3	o	2	77	64	-	

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, 4th October,

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:

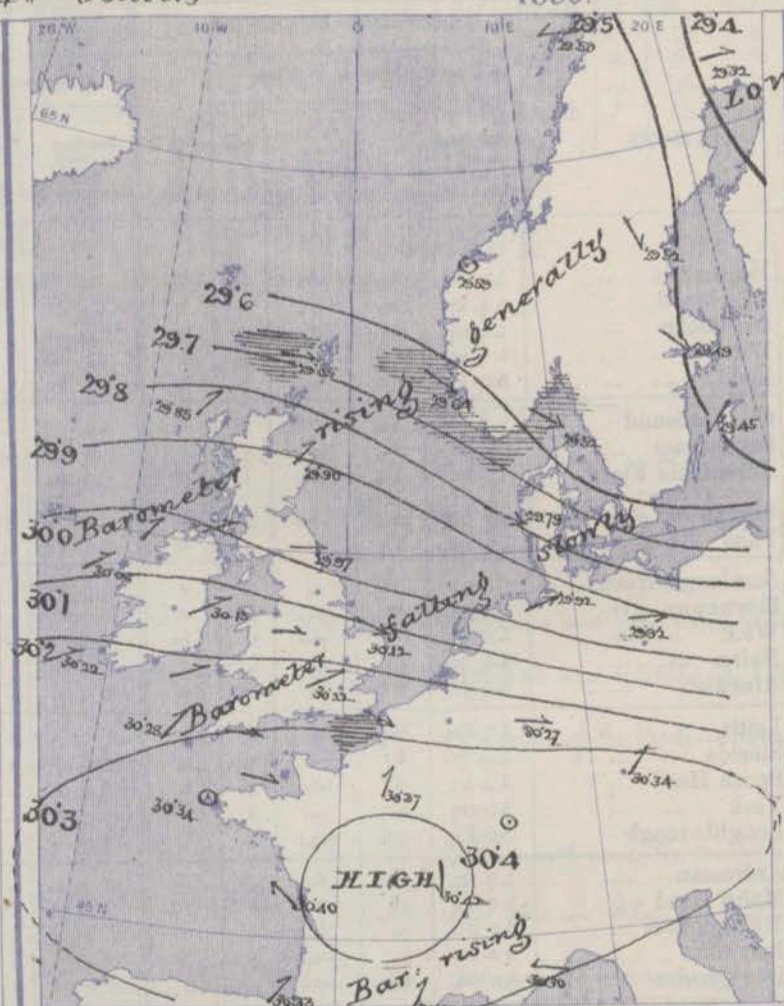
■ = Rough. ■ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.708
Stornoway	29.735
Wick	29.745
Nairn	29.761
Aberdeen	29.774
Leith	29.804
Shields	29.835
York	29.872
Loughborough	29.891
Ardrossan	29.813
Donaghadee	29.832
Holyhead	29.853
Liverpool	29.864
Parsonstown	29.831
Valencia	29.873
Roche's Point	29.870
Pembroke	29.868
Selly	29.894
Jersey	29.904
Hurst Castle	29.907
Dover	29.909
LONDON	29.911
Oxford	29.910
Cambridge	29.900
Yarmouth	29.886



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.

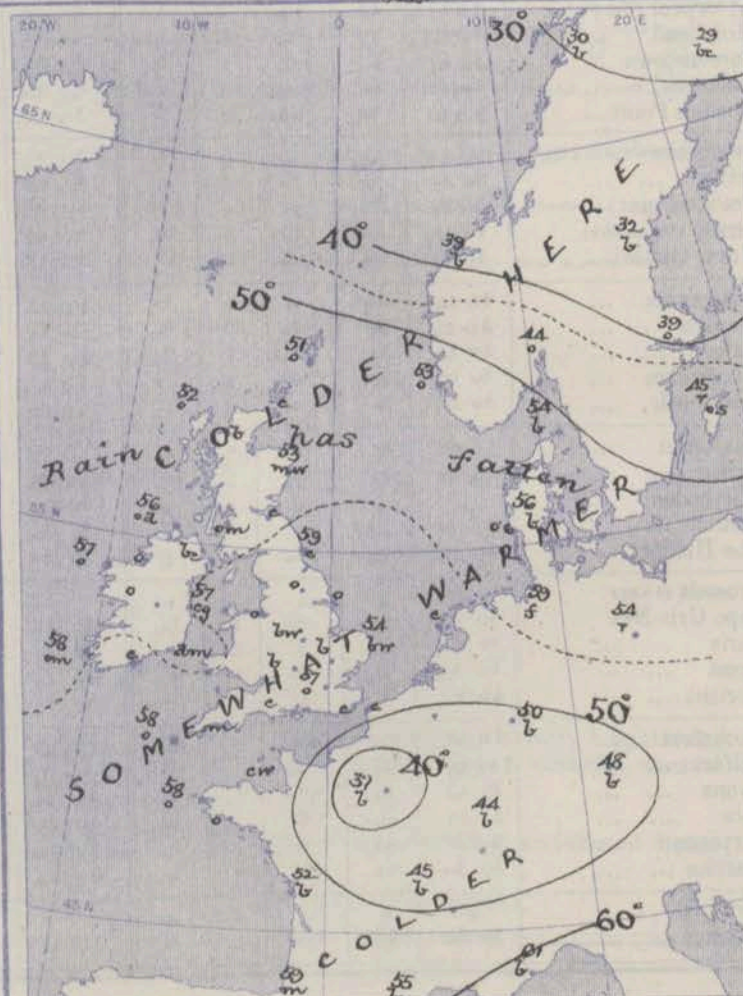
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of October.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	At 8 a.m. Dry.	Wet.	
Sumburgh Head.....	49.7	41.5	46.0	44.3	4.33
Stornoway	50.5	39.5	45.3	44.1	4.94
Wick	51.6	40.1	46.1	44.3	2.94
Nairn	51.6	40.6	44.5	42.5	2.38
Aberdeen	52.3	41.0	45.5	43.5	2.88
Leith	54.7	41.5	46.5	44.7	1.94
Shields	53.0	42.8	47.1	45.4	2.46
York	54.8	41.0	45.9	44.5	2.64
Loughborough	55.3	41.4	46.4	45.0	2.98
Ardrossan	53.5	43.6	47.6	45.6	4.31
Donaghadee	53.2	43.3	47.7	46.5	3.35
Holyhead	54.5	47.0	50.2	48.2	4.53
Liverpool	53.6	44.6	47.8	45.8	3.62
Parsonstown	54.7	41.1	48.4	44.7	3.27
Valencia	56.6	46.5	51.3	49.1	6.09
Roche's Point	56.8	45.9	50.2	48.4	4.17
Pembroke	54.8	48.0	51.2	49.1	4.13
Selly	56.6	50.3	53.8	51.7	3.84
Jersey	58.1	49.2	53.6	51.1	4.34
Hurst Castle	57.1	46.0	51.4	49.6	3.24
Dover	55.8	47.0	50.7	48.7	3.28
LONDON	56.6	43.2	48.0	46.4	2.74
Oxford	55.3	42.5	46.7	45.3	2.72
Cambridge	56.4	41.2	46.4	45.4	2.36
Yarmouth	54.3	44.8	49.2	47.9	2.97

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. to 30.4 ins. and more in an anticyclone lying over France, South Germany, and the Bay of Biscay.
Lowest, 29.4 ins. and less, in the north of Sweden.
Gradients moderate or slight generally.

TEMPERATURE

Barometer rising in Scandinavia and all the more northern parts of the United Kingdom, but falling elsewhere.
Highest, 61° at Nure, 59° at Shields, Rocky Point, Hunt Castle, and Biscuit, and 58° at Donaghadee, Valencia, Selly, and Jersey.
Lowest, 29° at Haparanda, 30° at Rost, 32° at Helsingfors, 37° at Paris, and 38° at Stockholm and Christiansund.
During yesterday the thermometer rose to 66° at York, to 67° in London, and to 68° at Loughborough and Cambridge.

WIND

Moderate from the W. or SW. over our Islands, the Netherlands, and Germany.
Strong from W. or WNW. in Denmark and the south of Norway; light from NW. or N. in Sweden.
Light and variable at the French stations.

WEATHER

Dull in Ireland, the west and north of England and the extreme north of Scotland, as well as in North Germany and the south of Sweden; fine in nearly all other localities.
Rain fell yesterday at most of our western and northern stations.

SEA

Rough at Cape Gris Nez and rather rough off the Shetlands and west of Norway, but moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Conditions are still favourable for the passage of depressions along our extreme northern coast, but there are at present no signs of the advance of any new disturbances. Fair weather seems likely to continue for a time in all the more southern parts of the Kingdom.

FORECASTS

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

DISTRICTS.

FORECASTS.

10	SCOTLAND NORTH	} SW ^{ly} and W ^{ly} winds, moderate or fresh; fair to dull and some rain.
11	SCOTLAND EAST	
2	ENGLAND N.E.	} Same as N°5
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	W ^{ly} to SW ^{ly} winds, moderate; fair generally.

DISTRICTS.

FORECASTS.

16	SCOTLAND WEST	} W ^{ly} winds, light to fresh, dull, some rain.
17	ENGLAND N.W.	
8	ENGLAND S.W.	SW ^{ly} and W ^{ly} winds, moderate; fair generally.
19	IRELAND NORTH	} SW ^{ly} winds, moderate or fresh; dull, some rain.
10	IRELAND SOUTH	

WARNINGS

The SOUTH CONE has been lowered this morning in district 2 and part of 8, but is still flying in districts 0.1.6.7.9 and 10.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.48	54	53	W	4	T	4		Holyhead ...	30.16	60	SE	6	bg	6
Sumbargh Head ...	29.40	51	51	W	3	T	5		Valencia ...	30.24	64	SW	4	om	4
Stornoway ...	29.62	56	55	SW	6	T	5		Scilly ...	30.34	59	W	3	c	2
Aberdeen ...	29.68	63	57	SW	6	cgpu	4		Jersey ...	30.43	62	W	3	b	3
Shields ...	29.91	61	57	W	5	c	2		Dungeness ...	30.28	63	W	6	bu	4
Ardrossan ...	29.93	58	54	SW	4	o	3		London ...	30.27	67	W	5	b	*
Malin Head ...	29.88	56	56	W	7	o	5		Yarmouth ...	30.15	65	W	5	b	3
Mullaghmore ...	30.04	59	56	SW	8	c	6		Rochefort ...	30.44	76	E	2	b	2
Belmullet ...	30.06	57	56	W	6	o	*								

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

Weather in morning fine and bright over England, France, Spain, and the southern parts of the Mediterranean, as well as at several of the Swedish stations, cloudy and unsettled elsewhere, with rain in many parts of Ireland, Scotland, and the south of Norway, in Finland and Northern Russia — snow at Kuopio. Rain later in Ireland, Scotland, Norway and Germany, and the newspapers report snow in some parts of Austria.

Temperature fallen fast on the Continent, risen fast in our Islands. Morning readings still slightly above 70° at some of the Mediterranean stations, exceeding 60° on the Spanish and Italian coasts, and ranging below 50° and 60° in the various parts of the British Isles. As low as (1) 34° to 35° over Lapland and Finland, 38° at Archangel and Vainingsfors, 37° at Hernösand and Stockholm; (2) 37° at Paris, 39° at Le Mans, 43° at Belfort and Munich; below 50° all over Germany and Austria. Rising to between 60° and 68° in most parts of our Islands, and to much higher values in the west and south of France.

Wind (1) strong to a gale from the N. over Finland, the Gulf of Bothnia, and eastern parts of the Baltic, and a gale from E. at Archangel, but light from the S. at St. Petersburg and Moscow. (2) Strong to a gale from SW. and W. in the northwest and north of our Islands, and from SE. at Skudesnaes. Moderate to fresh W. breezes in the south of England and over Germany, N. over Southern Russia, NE. winds over northern Italy, the south of France, and the Iberian Peninsula. Becoming gusty in many parts of England later.

Barometer highest 30.3 ins. to 30.4 ins. and more over Germany, France, and Spain; lowest, 29.1 ins. and less, in a depression over Finland, and in another off the west of Norway, 30.0 ins. and less over the Black Sea. Inclined to rise in Scotland later as the depression in the north moved eastwards.

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 5th OCT^r 1890.
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

Issued by the Meteorological Office, 25, Abchurch Lane, London, E.C. 4, H. H. SCOTT, Secretary.																	
YESTERDAY EVENING.																	
8 A.M. TO DAY.																	
PAST 24 HOURS.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
Amount of Rainfall.																	
SCANDINAVIA.																	
Haparanda ...																	
Hernösand ...																	
Stockholm ...																	
Wisby ...																	
Bodö ...																	
Christiansund																	
Skudesnaes ...																	
Christiania Fjord																	
Skagen (The Scaw)																	
Fanö ...																	
Sumburgh Head																	
Stornoway ...																	
Wick ...																	
Nairn ...																	
Aberdeen ...																	
Leith ...																	
Shields ...																	
Spurn Head ...																	
York ...																	
Loughborough																	
Ardrossan ...																	
Malin Head ...																	
Mullaghmore ...																	
Belmullet ...																	
Donaghadee ...																	
Liverpool (Bidston)																	
Holyhead ...																	
Parsonstown ...																	
Valencia ...																	
Roche's Point...																	
Pembroke (St. Ann's Hd.)																	
Scilly ...																	
Prawle Point ...																	
Jersey (St. Aubin's)																	
Hurst Castle ...																	
Dungeness ...																	
London ...																	
Oxford ...																	
Cambridge ...																	
Yarmouth ...																	
Cuxhaven ...																	
Berlin ...																	
Wiesbaden ...																	
Munich ...																	
The Helder ...																	
Brussels (9 a.m.)																	
Cape Gris Nez																	
Paris ...																	
Brest ...																	
Lorient ...																	
Rochefort ...																	
Belfort ...																	
Lyons ...																	
Nice ...																	
Perpignan ...																	
Biarritz ...																	
Corunna ...																	
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

Sunday, 5th October,

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.

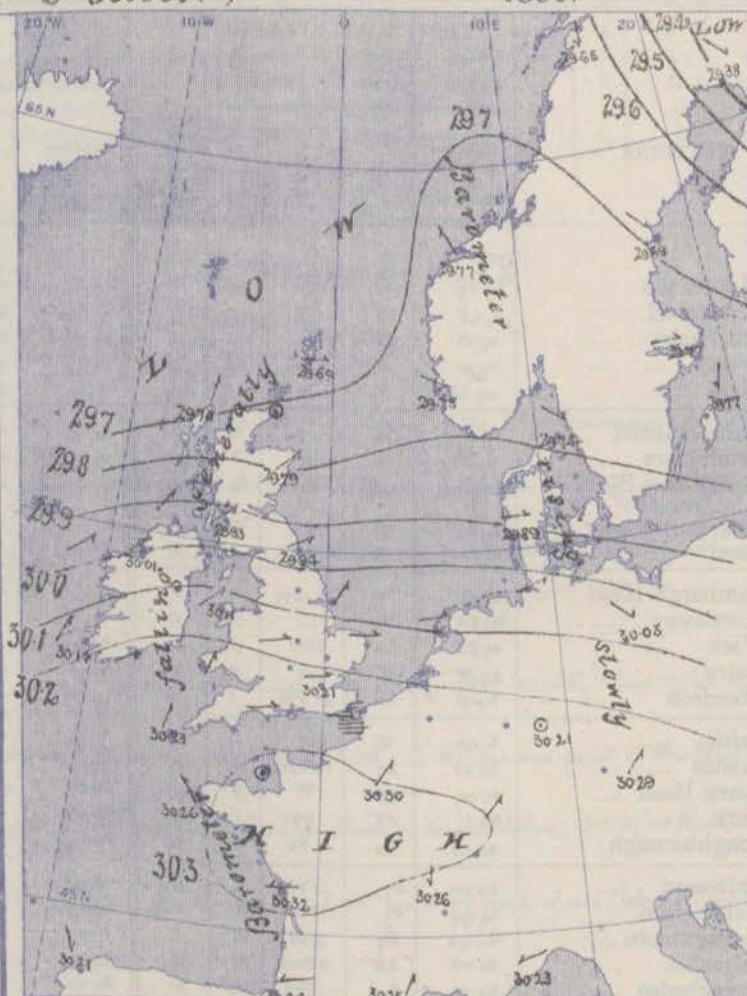
SEA DISTURBANCE—Where considerable, is shown thus:

▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.708
Stornoway	29.735
Wick	29.745
Nairn	29.761
Aberdeen	29.774
Leith	29.804
Shields	29.835
York	29.872
Loughborough	29.891
Ardrossan	29.813
Donaghadee	29.832
Holyhead	29.853
Liverpool	29.864
Parsonstown	29.881
Valencia	29.873
Roche's Point	29.870
Pembroke	29.868
Seilly	29.894
Jersey	29.904
Hurst Castle	29.907
Dover	29.909
LONDON	29.911
Oxford	29.910
Cambridge	29.900
Yarmouth	29.886



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.

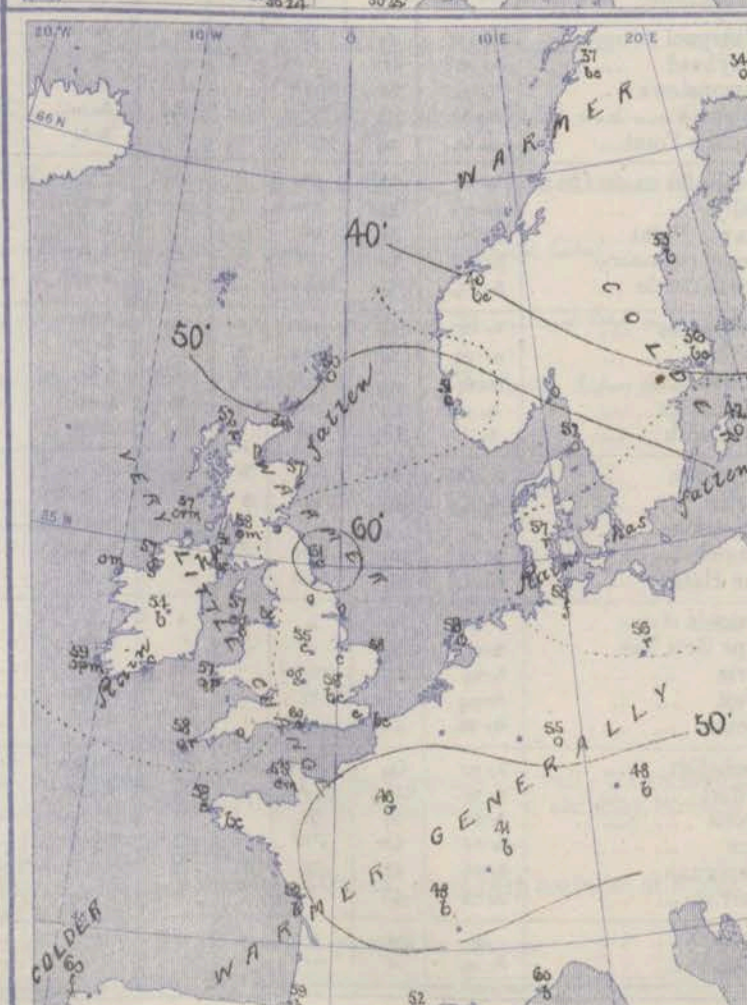
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of October.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	49.7	41.6	46.0	44.3	4.33
Stornoway	50.5	39.5	45.3	44.1	4.94
Wick	51.6	40.1	46.1	44.3	2.94
Nairn	51.6	40.6	44.5	42.5	2.58
Aberdeen	52.3	41.0	45.5	43.5	2.88
Leith	54.7	41.5	46.5	44.7	1.04
Shields	53.0	42.8	47.1	45.4	2.46
York	54.8	41.0	45.9	44.5	2.64
Loughborough	55.3	41.4	46.4	45.0	2.98
Ardrossan	53.5	43.6	47.6	45.6	4.31
Donaghadee	53.2	43.3	47.7	46.5	3.35
Holyhead	54.5	47.0	50.2	48.2	4.53
Liverpool	53.6	44.6	47.8	45.8	3.62
Parsonstown	54.7	41.1	45.4	44.7	3.27
Valencia	56.6	46.5	51.3	49.1	6.09
Roche's Point	55.8	45.9	50.2	48.4	4.17
Pembroke	54.8	48.0	51.2	49.1	4.13
Seilly	56.6	50.3	53.8	51.7	3.84
Jersey	58.1	49.2	53.6	51.1	4.34
Hurst Castle	57.1	46.0	51.4	49.6	3.24
Dover	55.8	47.0	50.7	48.7	3.28
LONDON	56.6	43.2	48.0	46.4	2.74
Oxford	55.3	42.5	46.7	45.3	2.72
Cambridge	56.4	41.2	46.4	45.4	2.36
Yarmouth	54.3	44.8	49.2	47.9	2.97

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 in. and upwards, in an anticyclone lying over France.</p> <p>Lowest, 29.4 in. and less, over Lapland; 29.7 in. and less, in the Shetlands and Iceland.</p> <p>Gradients moderate or slight generally, but increasing in the extreme west and northwest of our Islands.</p> <p>Barometer falling generally, but rising a little in Scandinavia, and also in some parts of Germany and Central France.</p>
TEMPERATURE	<p>Highest, 61° at Shields and Leston, 61° at Hurst Castle, 61° at Comma, and 59° at Leith, York, Valencia and Biarritz.</p> <p>Lowest, 33° at Kemi and 34° at Kaparanda, 36° at Stockholm, 37° at Rode, 40° at Christiansund, and 41° at Belfast.</p> <p>During yesterday the thermometer rose to 68° in London, to 69° at Loughborough, and to 71° at Cambridge.</p>
WIND	<p>Light or moderate from the SW^W in all the more western and northern part of our Islands.</p> <p>Moderate from W. in the south and southeast of England and also on the eastern shores of the North Sea.</p> <p>NW^W in the north of Scandinavia, light from the E^W in the west and south of France.</p>
WEATHER	<p>Fine in the southeast of England and the east of Ireland, as well as at many of the Scandinavian and French stations.</p> <p>Cloudy or overcast elsewhere, with rain in the extreme north and northwest of our Islands and also at Feroe and Dublin.</p> <p>Slight rain fell yesterday at most of our western and extreme northern stations.</p>
SEA	<p>Slight or smooth generally, but rather rough at C. Rio Neg.</p>

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

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

DISTRICTS.

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

FORECASTS.

None Issued

DISTRICTS.

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

FORECASTS.

None Issued

WARNINGS

The SOUTH CONE has been hoisted this morning in district 6 and parts of 6 and 9.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA	SEA		BAR:	THER:		WIND		WEA	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.73	55	52	WNW	6	bc	5	Holyhead ...	30.16	59	56	WSW	4	c	2
Sumburgh Head ...	29.73	52	51	W	3	c	5	Valencia ...	30.21	63	60	SW	5	bc	5
Stornoway ...	29.85	54	52	SW	3	o	3	Seilly ...	30.29	62	60	WSW	2	c	3
Aberdeen ...	29.91	60	53	WNW	2	c	1	Jersey ...	30.33	62	59	WSW	3	bc	3
Shields ...	30.02	63	60	WSW	3	c	2	Dungeness ...	30.21	61	59	W	5	c	4
Ardrossan ...	30.01	58	57	WSW	3	o	2	London ...	30.19	68	62	WSW	2	bc	*
Mulin Head ...	30.00	58	57	WSW	4	o	2	Yarmouth ...	30.13	65	60	WNW	3	b	3
Mullaghmore ...	30.07	61	55	SW	4	omp	3	Rochefort ...	30.36	70	62	WN	3	b	2
Belmullet ...	30.08	59	58	WSW	3	o	*								

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

Weather dull in Ireland, the west and north of England, and the extreme north of Scotland; rainy over the Baltic, Poland, eastern Germany and the west of Russia. Fine in nearly all other localities, with heavy dew in some parts of Great Britain. Slight rain falling later in the west and extreme north of our Islands; lightning seen in London at night.

Temperature highest 73° at Barcelona, 72° at Catania and Malta and 71° at Brindisi, Algiers and Tunis; above 60° over Southern Europe generally, and nearly reaching that point in some parts of Ireland and England. Lowest 23° at Chaparranda, 30° at Bodo, 31° at Uleaborg, and 32° at Hernöand; below 40° over nearly the whole of Russia, and also over central France. Rising during day to 68° in London to 69° at Loughborough and to 71° at Cambridge; to 75° or more in many parts of Southern Europe; and to 80° or more in Sicily and some parts of Algeria.

Wind ^{moderate} from the Wnd or SWnd over our Islands, the Netherlands, Western, and Southern Germany, Austria, and the south of Russia. Strong from the NWnd over Finland, Denmark, and the south of Norway and the southern shores of the Baltic, with a gale at Memel. Light from the End on the west coast of Norway and France, and from the NEnd in Spain and Italy. SE³ or S⁴ in Algeria. Wind subsiding later over the Baltic and neighbouring countries.

Barometer highest, 30.3 in. to 30.4 in. and upwards, in a large anticyclone lying over France, the Bay of Biscay, the northern parts of Spain and Italy and the western parts of the Mediterranean. Lowest 29.2 in. and less, in a depression lying over Finland; 29.3 in. and less, in another disturbance over the Baltic Provinces. Gradients rather steep over Denmark and Central Europe. Both depressions subsequently moving eastwards, but new disturbances beginning to show themselves off the west of our Islands.

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.

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DAILY WEATHER REPORT.

for *Monday, 6th October, 1890.*
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Issue of the Meteorological Office, 55, Victoria Street, London. H. H. SCOTT, Secretary.																		
STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barom. Reading at 3 rd P. and Sea Level.	TEMP. Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 5.)	SHADE TEMP.		Amount of Rainfall.	
			Force. (0 to 12.)	Dir.		Reading at 8 a.m. 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 ...	29.69	30	2	0	b	29.26	- .43	34	34	+ 1	SE	6	8	*	45	25	0.08	
Stockholm ...	29.76	35	2	0	b	29.10	- .67	50	49	+ 11	SW	4	0	*	3	32	0.28	
Wisby ...	29.79	42	WNW	4	0	29.33	- .46	55	53	+ 13	SSW	8	0	*	?	39	0.08	
Bodö ...	29.65	36	2	2	b	29.49	- .16	28	26	- 9	E	2	0	1	37	24	-	
Christiansund	29.52	42	SE	3	0	29.26	- .51	40	38	0	NNE	4	0	3	45	37	0.04	
Skudesnaes ...	29.53	55	SSW	8	5	29.48	- .27	50	46	- 1	WNW	8	0	5	55	46	0.24	
Christiania Fjord (Fæder)	29.64	51	SESE	3	0	29.22	- .55	54	49	+ 9	WSW	9	0	5	64	?	0.04	
Skagen (The Seaw)	29.61	52	SW	3	0	29.40	- .35	54	50	+ 2	W	6	0	4	59	52	-	
Fanö ...	29.44	57	W	4	0	29.71	- .18	54	57	+ 1	W	5	0	*	59	57	0.04	
Sumburgh Head	29.38	55	WSW	6	7	29.46	- .23	49	47	- 1	W	3	0	5	55	44	0.24	
Stornoway ...	29.59	52	W	8	c	29.67	- .03	49	47	- 3	WNW	5	0	4	57	45	0.15	
Wick ...	29.50	58	W	5	0	29.64	- .10	48	45	- 2	W	3	0	3	62	44	0.03	
Nairn ...	29.59	59	W	4	c	29.68	- .07	49	45	- 8	W	3	0	2	65	45	0.02	
Aberdeen ...	29.65	58	SW	4	cq	29.74	- .05	48	44	- 9	E	2	0	2	63	48	0.02	
Leith ...	29.77	60	WNW	5	0	29.80	- .03	52	49	- 7	W	4	0	*	68	51	-	
Shields ...	29.89	61	SW	3	0	29.83	- .11	55	53	- 6	WNW	3	0	2	64	53	-	
Spurn Head ...	30.00	59	SW	3	b	29.91	- .15	59	57	+ 1	WSW	5	0	4	62	55	-	
York ...	30.01	59	WSW	1	b	29.90	- .16	59	56	0	WSW	3	0	*	64	54	-	
Loughborough	30.08	60	WSW	3	c	30.00	- .14	58	56	+ 3	WSW	3	0	*	67	55	-	
BRITISH ISLANDS.																		
Ardrossan ...	29.82	58	WSW	5	op	29.86	- .07	53	48	- 5	W	4	0	3	59	50	-	
Malin Head ...	29.80	56	SW	5	om	29.88	- .05	52	48	- 5	WNW	4	0	3	59	52	0.18	
Mullaghmore ...	29.92	57	WSW	6	odp	29.95	- .06	54	52	- 3	WSW	4	0	3	60	52	0.04	
Belmullet ...	29.92	58	WSW	4	0	29.97	- .02	53	51	- 4	WNW	1	0	*	59	51	0.13	
Donaghadee ...	29.89	61	SW	4	c	29.93	- .08	53	52	- 5	W	3	0	1	64	50	0.02	
Liverpool (Bidston)	30.03	58	SW	5	b	29.97	- .14	59	55	+ 1	WSW	4	0	4	63	58	-	
Holyhead ...	30.03	58	SW	5	e	29.97	- .14	59	57	+ 2	WSW	4	0	4	61	57	0.01	
Parsonstown ...	30.03	60	SW	2	0	29.94	- .12	57	56	+ 3	W	0	0	*	63	53	0.07	
Valencia ...	30.08	60	SW	4	odm	30.04	- .10	59	58	0	WSW	2	0	2	61	57	0.11	
Roche's Point...	30.11	59	WSW	3	0	30.04	- .17	58	56	+ 2	W	3	0	3	60	55	0.01	
Pembroke (St. Ann's Hd.)	30.13	58	SW	3	0	30.08	- .11	58	58	+ 1	WSW	4	0	4	59	57	0.03	
Scilly ...	30.16	58	S	1	0	30.12	- .11	58	58	0	SSW	2	0	2	58	55	0.11	
Prawle Point ...	30.20	56	SSW	3	0	30.13	- .15	58	57	+ 1	S	1	0	1	58	54	0.01	
Jersey (St. Aubin's)	30.22	62	S	2	b	30.17	- .13	57	56	+ 2	SW	1	0	1	65	52	-	
Hurst Castle ...	30.20	59	W	4	c	30.12	- .13	59	57	- 1	W	4	0	2	63	58	0.01	
Dungeness ...	30.16	61	W	4	c	30.09	- .12	61	59	+ 4	W	4	0	3	63	56	-	
London ...	30.15	61	WSW	2	0	30.08	- .13	57	55	- 1	SW	2	0	*	64	54	0.02	
Oxford ...	30.15	58	WSW	3	0	30.07	- .13	58	55	+ 2	SW	3	0	*	65	53	-	
Cambridge ...	30.11	62	SW	2	0	30.04	- .12	59	56	+ 2	SW	2	0	*	69	53	-	
Yarmouth ...	30.07	62	W	2	b	30.00	- .11	58	55	0	W	4	0	2	65	54	-	
GERMANY & HOLLAND.																		
Cuxhaven ...	29.95	57	WSW	5	0	29.88	- .32	57	57	- 1	WSW	4	0	*	60	56	-	
Berlin ...	30.03	58	W	3	0	29.98	- .05	58	54	+ 2	W	4	0	*	59	55	0.04	
Wiesbaden ...	*	*	*	*	*	30.19	- .02	54	52	- 1	SW	2	0	*	61	48	-	
Munich ...	30.29	50	2	0	b	30.27	- .02	45	44	- 3	W	1	0	*	63	39	-	
The Helder ...	30.05	59	SW	2	c	29.97	- .10	59	57	+ 1	WSW	3	0	3	61	?	-	
FRANCE AND BELGIUM.																		
Brussels (8 a.m.)	*	*	*	*	*													
Cape Gris Nez	30.20	60	W	5	b	30.10	- .12	60	59	+ 2	SW	4	0	4	64	57	-	
Paris ...	30.26	55	S	1	b	30.22	- .08	44	44	- 2	SSW	1	0	*	66	42	-	
Brest ...	30.16	63	SE	1	b	30.13	- .13	59	59	+ 1	E	1	0	2	77	52	-	
Lorient ...	30.24	59	SE	1	b	30.17	- .17	56	54		NNE	1	0	4	64	52	-	
Rocheport ...	30.26	67	NE	3	b	30.20	- .12	54	52	+ 2	SESE	3	0	2	84	43	-	
Belfort ...	30.31	60	E	1	m	30.31	0.00	42	32	+ 1	E	1	0	*	65	39	-	
Lyons ...	30.19	59	N	2	b	30.37	+ .11	48	47	0	E	1	0	*	68	44	-	
Nice ...	30.10	60	S	2	c	30.21	- .02	60	59	0	E	2	0	0	70	59	-	
Perpignan ...	30.19	61	E	2	b	30.21	- .04	60	58	+ 8	W	1	0	*	73	51	-	
Biarritz ...	30.13	66	E	3	b	30.12	- .12	61	60	+ 2	SW	3	0	2	72	59	-	
PORTUGAL.																		
Corunna ...	*	*	*	*	*													
Lisbon ...	30.12	64	WNW	3	b	30.10	- .06	62	60	+ 1	NNE	2	0	2	79	61	-	

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

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

WEATHER CHARTS

for 8 a.m. on

Monday, 6th October,

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.

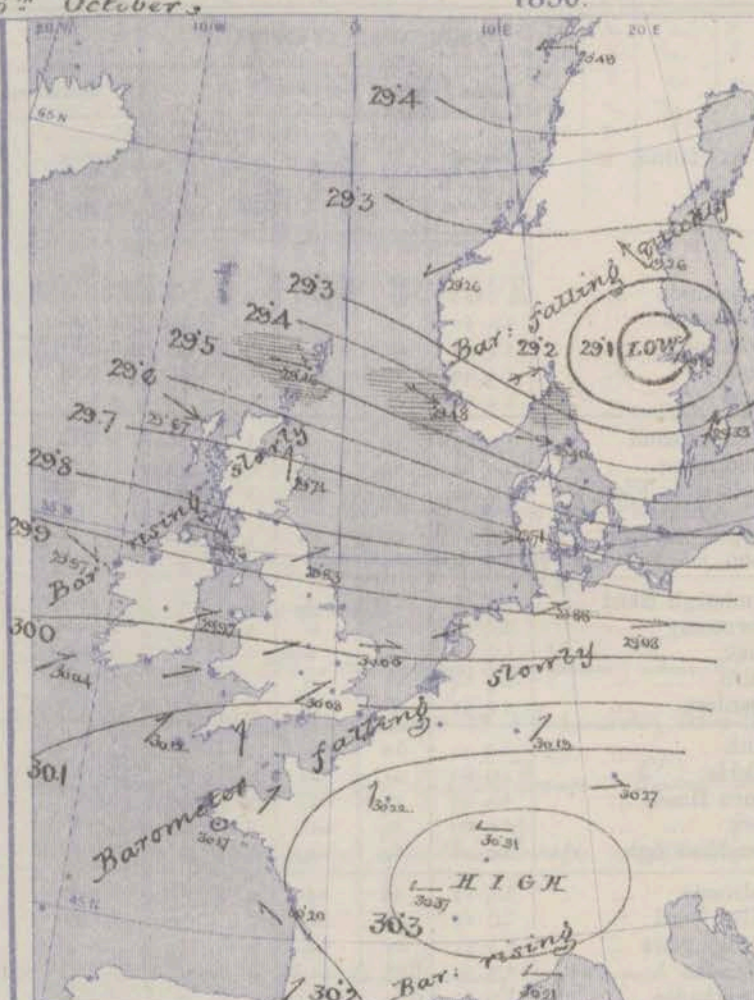
SEA DISTURBANCE—Where considerable, is shown thus:

▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.708
Stornoway	29.735
Wick	29.745
Nairn	29.761
Aberdeen	29.774
Leith	29.804
Shields	29.835
York	29.872
Loughborough	29.891
Ardrossan	29.813
Donaghadee	29.832
Holyhead	29.853
Liverpool	29.864
Parsonstown	29.881
Valencia	29.873
Roche's Point	29.876
Pembroke	29.868
Scilly	29.894
Jersey	29.904
Hurst Castle	29.907
Dover	29.909
LONDON	29.911
Oxford	29.910
Cambridge	29.900
Yarmouth	29.886



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 October.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Dry.	Wet.	
Sumburgh Head	49.7	41.6	46.0	44.3	4.33
Stornoway	50.5	39.5	45.3	44.1	4.94
Wick	51.6	40.1	46.1	44.3	2.94
Nairn	51.6	40.6	44.5	42.5	2.38
Aberdeen	52.3	41.0	45.5	43.5	2.88
Leith	54.7	41.5	46.5	44.7	1.94
Shields	53.0	42.8	47.1	45.4	2.46
York	54.8	41.0	45.9	44.5	2.64
Loughborough	55.3	41.4	46.4	45.0	2.98
Ardrossan	53.5	43.6	47.0	45.6	4.31
Donaghadee	53.2	43.3	47.7	46.5	3.35
Holyhead	54.5	47.0	50.2	48.2	4.53
Liverpool	53.6	44.6	47.8	45.8	3.62
Parsonstown	54.7	41.1	45.4	44.7	3.27
Valencia	56.6	46.5	51.3	49.1	6.09
Roche's Point	55.8	45.9	50.2	48.4	4.17
Pembroke	54.8	48.0	51.2	49.1	4.13
Scilly	56.6	50.3	53.8	51.7	3.84
Jersey	58.1	49.2	53.6	51.1	4.34
Hurst Castle	57.1	46.0	51.4	49.6	3.24
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Cambridge	56.4	41.2	46.4	45.4	2.36
Yarmouth	54.3	44.8	49.2	47.9	2.97

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 30.2 in. and more, over France, Spain, the Bay of Biscay and the southern part of our Islands; 29.5 in. over Lapland.
Lowest, 29.1 in. and less, in a depression near Stockholm.

Gradients steep over the eastern shores of the North Sea.

Barometer rising in the north, unsteady and inclined to fall in the south.

TEMPERATURE

Highest, 61° at Biarritz and Pau, 60° at Nice, Perpignan, and C. de Nog.

Lowest, (1.) 28° at Brest, 34° at Helsingfors, 40° at Christiania; (2.) 42° at Belfast, 44° at Paris, 48° at Lyons.

The daily maxima yesterday ranged from 50° to 63° over the United Kingdom and France.

WIND

Blowing a gale from between W. and S. over the southern parts of Scandinavia; Moderate to light from the W. over the greater part of our Islands, light from S. in Cornwall; variable and anticyclonic over France.

WEATHER

Fine and bright at many of the southern and southeastern stations, cloudy and changeable elsewhere, with warm showers at times in many parts of our Islands, snow at Helsingfors.

The amounts of rainfall reported are small.

SEA

Rather rough at the northern stations; moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There is no indication of decided change excepting an increase in the amount of rainfall over England.

FORECASTS

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

DISTRICTS.

FORECASTS.

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

W^{ly} and Varying winds, changeable, rain at times.

SW^{ly} winds; changeable, showery, bright intervals.

DISTRICTS.

FORECASTS.

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

Same as No 0 to 2

SW^{ly} to NW^{ly} winds, moderate; changeable, rain at times.

WARNINGS

The SOUTH CONE, hoisted yesterday morning in district 0 and parts of 6 and 9 is lowered again this morning.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA	SEA		BAR:	THER:		WIND		WEA	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.72	55	51	W	2	0	3		Holyhead ...	30.07	60	58	SSW	5	4
Sumburgh Head									Valencia ...						
Stornoway ...	29.60	57	57	SW	6	1	6		Scilly ...						
Aberdeen ...									Jersey ...	30.27	68	60	SSW	2	2
Shields ...									Dungeness ...	30.19	62	59	WSW	4	3
Ardrossan ...									London ...						*
Malin Head ...	29.84	58	56	SW	5	c	2		Yarmouth ...						
Mullaghmore ...									Rochefort ...	30.30	76	64	NE	3	2
Belmullet ...	29.95	58	57	WSW	5	om	*								

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

Weather cloudy and showery in the west and northern parts of the United Kingdom; dull over Denmark, the Baltic and the greater part of Germany, with rain at Fian and fog at Copenhagen and Munster. Fine in nearly all other parts of Europe, but snow reported at Uleaborg, cloud and slight rain setting in later at many of the English stations, but weather remaining fine in France.

Temperature Highest 74° at La Caille, 73° at Barcelona and Algiers, and 71° at Palermo, as high as 61° at Shields, and 60° at Munt Castle; very little below 60° in any part of the United Kingdom excepting the extreme north of Scotland. Lowest 31° at Luepik and Helsingfors, 32° at Uleaborg, 37° at Hermand, 34° at St. Petersburg, and 35° at Archangel. Rising during day to between 60° and 65° in many parts of the United Kingdom, and to 69° at Cambridge; exceeding 70° in the west and south of France.

Wind light or moderate from the SW in all the more western and northern parts of the United Kingdom, and also in western Germany. W over the southeast of England and the eastern shores of the North Sea; NW over Sweden, Russia, Austria and East Germany. Light from the E in the west and south of France, and from the NE in Spain; variable in Italy and Algeria. Subsequently increasing to a strong breeze from SW and W in the north of Scotland.

Barometer highest 30.2 ins. to 30.3 ins. or rather more in a large anticyclone covering the Bay of Biscay, the south of our Islands, France and the greater part of southern Europe. Lowest 29.5 ins. and less in a depression lying over the White Sea, 29.7 ins. and less in another system lying to the northward of Scotland. Latter system subsequently growing deeper, and barometer falling quickly on the extreme north of our Islands.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 28TH SEPT. TO 4TH OCT. 1890.

The weather of last week was mostly fine and dry over France and the extreme northern parts of the United Kingdom, but rainy and unsettled elsewhere. In Scotland and the northern parts of Ireland and England the amount of rainfall was very considerable.

During the early part of the time the highest pressures were found in a large anticyclone, the central portion of which lay over France and South Germany, and the lowest in a series of large depressions which travelled from the Atlantic past our extreme northern coasts to the Scandinavian Peninsula. The prevailing winds were therefore W, and while light or moderate breezes and fine weather were reported over the southern parts of the United Kingdom, fresh to strong gales and rainy weather prevailed in the far north.

On the 30th Sept. a large secondary disturbance advanced to our northwest coasts, and in the course of the ensuing two days this travelled eastwards across Scotland, the North Sea and Denmark to the south of Sweden and the Baltic. Its progress was attended by very heavy rain in all the more northern parts of the Kingdom, by lesser amounts in the south, and by gales from the SW and W on nearly all the English and Irish coast, while in the rear of the disturbance the wind in the east of Scotland increased to a strong gale from E and NE.

As the disturbance passed away a new anticyclone appeared over our southwest coasts, and gradually spread eastwards over France and the south of England to the Netherlands and Germany. In the meantime large depressions continued to skirt our extreme north coasts, and the general conditions were therefore very similar to those reported at the commencement of the period. Light breezes and fair weather being reported in the south of our Islands, but strong W breezes and squally rainy weather in the north.

On the 30th Sept. and 1st Oct. a wave of cold air spread over us from the northward, the thermometer on the grass falling a little below the freezing point at night. At other times, however, temperature was decidedly high for the time of year, maxima exceeding 65° being frequently observed at the English 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 7th October.* 1890.
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

Issued by the Meteorological Office, 53, 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 ...	29.524	27	2	0	b	?		24	23		2	0	b	*	39	?	—
Hernösand ...	29.53	26	SE	2	b	29.71	+1.45	24	27	-6	N	2	b	*	35	27	—
Stockholm ...	29.46	27	NNW	3	bc	29.61	+1.58	31	30	-19	NNW	2	bc	*	37	29	—
Wisby ...	29.444	44	NNW	6	P	29.63	+1.30	30	27	-17	SE	4	o	*	37	?	0.06
Bodö ...	29.57	27	E	2	b	29.69	+2.0	26	23	-2	E	2	o	1	32	23	—
Christiansund	29.57	24	E	2	b	29.75	+1.49	40	33	+8	SE	3	b	3	?	34	—
Skudesnaes ...	29.57	48	NNW	7	P	29.69	+2.1	46	44	-4	N	2	o	4	54	45	0.12
Christiania Fjord (Færder)	29.52	47	NNE	4	b	29.73	+1.51	40	37	-14	NNE	5	c	3	57	39	—
Skagen (The Seaw)	29.57	50	NNW	6	bc	29.65	+2.5	50	46	-4	NNW	3	o	3	55	50	—
Fanö ...	29.86	53	NNW	6	b	29.80	+0.9	53	49	-5	NNW	5	c	*	59	52	0.04
BRITISH ISLANDS.																	
Sumburgh Head	29.50	47	NNW	4	bc	29.67	+2.1	46	45	-3	NNW	1	bc	3	52	43	0.21
Stornoway ...	29.74	49	N	4	T	29.82	+1.5	46	45	-3	N	3	bc	3	52	42	0.16
Wick ...	29.65	47	NNW	2	bc	29.80	+1.6	47	45	-1	NNW	4	cb	3	53	43	0.05
Nairn ...	29.71	49	N	4	c	29.83	+1.5	45	44	-4	SW	1	bc	1	50	44	0.04
Aberdeen ...	29.82	50	N	2	o	29.85	+1.1	47	44	-1	N	1	c	2	58	46	—
Leith ...	29.87	52	N	3	bc	29.85	+0.5	48	46	-4	N	1	om	*	57	46	0.02
Shields ...	29.91	54	NNW	3	c	29.87	+0.4	49	49	-6	NE	2	T	2	60	46	0.15
Spurn Head ...	29.96	57	N	3	o	29.89	-0.2	58	53	-1	SW	4	om	3	61	54	—
York ...	29.97	53	N	1	c	29.87	-0.3	58	57	-1	SW	1	o	*	60	52	—
Loughborough	30.01	60	NNW	3	c	29.95	-0.5	58	56	0	SW	2	o	*	66	57	—
Ardrossan ...	29.92	54	N	3	o	29.87	+0.1	48	47	-5	E	3	o	0	57	46	0.08
Malin Head ...	29.92	52	NNW	3	o	29.87	-0.1	48	47	-4	ENE	3	o	2	52	46	0.16
Mullaghmore ...	29.94	52	NE	1	c	29.87	-1.2	51	51	-3	ENE	6	oT	5	54	50	0.45
Belmullet ...	29.91	53	E	2	P	29.87	-1.0	53	52	0	NIE	3	o	*	57	50	0.70
Donaghadee ...	29.96	53	N	2	o	29.84	-0.9	51	51	-2	NE	6	o	4	64	51	0.21
Liverpool (Bidston)	30.00	55	N	1	o	29.81	-1.09	59	56	0	SW	3	o	3	60	53	0.12
Holyhead ...	29.99	57	E	0	og	29.85	-1.2	58	57	-1	SW	5	Tm	4	59	54	0.03
Parsonstown ...	29.97	59	E	0	c	29.80	-1.9	59	58	+2	E	0	T	*	61	53	0.65
Valencia ...	29.97	60	E	4	T	29.84	-2.0	61	60	+2	WPN	4	Tm	4	61	57	1.01
Roche's Point...	30.02	57	NNW	3	o	29.87	-1.7	60	60	+2	NNW	4	Tm	4	60	56	0.60
Pembroke (St. Ann's Hd.)	30.05	58	NNW	4	o	29.92	-1.6	57	57	-1	SW	6	Tg	6	60	57	0.66
Scilly ...	30.09	58	SW	3	c	30.02	-1.0	57	58	+1	SW	4	c	2	61	56	—
Prawle Point...	30.13	57	SW	2	o	30.07	-0.6	57	56	-1	SW	5	o	4	61	53	0.02
Jersey (St. Aubin's)	30.15	61	NNW	2	og	30.15	-0.2	59	57	+2	SW	3	ogm	3	64	57	—
Hurst Castle ...	30.10	60	NNW	4	cg	30.07	-0.5	60	59	+1	NNW	5	c	2	64	58	—
Dungeness ...	30.08	60	N	5	c	30.05	-0.4	60	59	-1	N	4	T	3	65	59	0.01
London ...	30.06	61	NNW	2	o	30.04	-0.4	58	57	+1	SW	1	T	*	66	56	0.01
Oxford ...	30.08	58	SW	3	o	30.02	-0.5	56	55	-2	SW	3	oTg	*	64	56	0.10
Cambridge ...	30.04	60	SW	1	o	29.99	-0.5	59	57	0	SW	2	T	*	67	55	—
Yarmouth ...	29.99	61	N	3	b	29.98	-0.2	59	57	+1	N	3	c	2	66	53	—
GERMANY & HOLLAND.																	
Cuxhaven ...	29.96	56	NNW	5	o	29.94	+0.6	56	54	-1	WPN	2	o	*	61	54	0.02
Berlin ...	29.93	59	SW	3	o	29.96	-0.2	53	51	-5	N	3	T	*	63	52	0.12
Wiesbaden ...	*	*	*	*	*	30.12	-0.7	55	54	+1	E	0	o	*	66	52	—
Munich ...	30.23	50	N	1	b	30.23	-0.4	51	49	+6	SW	3	c	*	63	45	—
The Helder ...	29.98	60	N	1	c	29.95	-0.2	59	58	0	SW	2	o	2	61	57	—
FRANCE AND BELGIUM.																	
Brussels (8 a.m.)	30.09	*	*	*	*	30.09	0.0	53	53		SW	3	o	*	66	53	—
Cape Gris Nez	30.10	60	SW	4	c	30.10	0.0	55	55	-1	N	4	o	4	63	57	—
Paris ...	30.15	61	NNW	1	b	30.17	-0.5	56	56	+6	NNW	1	o	3	69	57	—
Brest ...	30.15	58	NNW	1	m	30.14	+0.1	60	57	+1	N	3	o	3	77	52	—
Lorient ...	30.15	63	N	2	b	30.17	0.0	58	57	+3	E	0	m	3	68	55	—
Rochefort ...	30.19	65	E	0	b	30.23	+0.3	53	54	+1	SE	3	m	?	77	50	—
Belfort ...	30.15	60	E	1	o	30.15	-1.6	45	35	+8	E	1	m	*	65	40	—
Lyons ...	29.56	60	ENE	1	b	29.86	?	52	53	+4	E	1	b	*	68	48	—
Nice ...	30.19	61	SW	3	o	30.20	-0.1	57	57	-1	E	2	bc	0	68	57	—
Perpignan ...	30.18	66	NE	2	o	30.23	+0.2	61	60	+1	N	2	o	*	72	58	—
Biarritz ...	30.14	66	SW	3	b	30.17	+0.5	59	58	-2	ENE	3	m	2	75	59	—
PENINSULA.																	
Corunna ...	30.10	68	NNW	2	*	30.16	+0.6	63	59	+1	NNW	1	b	5	75	61	—
Lisbon ...																	

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

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

WEATHER CHARTS

for 8 a.m. on

Tuesday, 7th October,

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

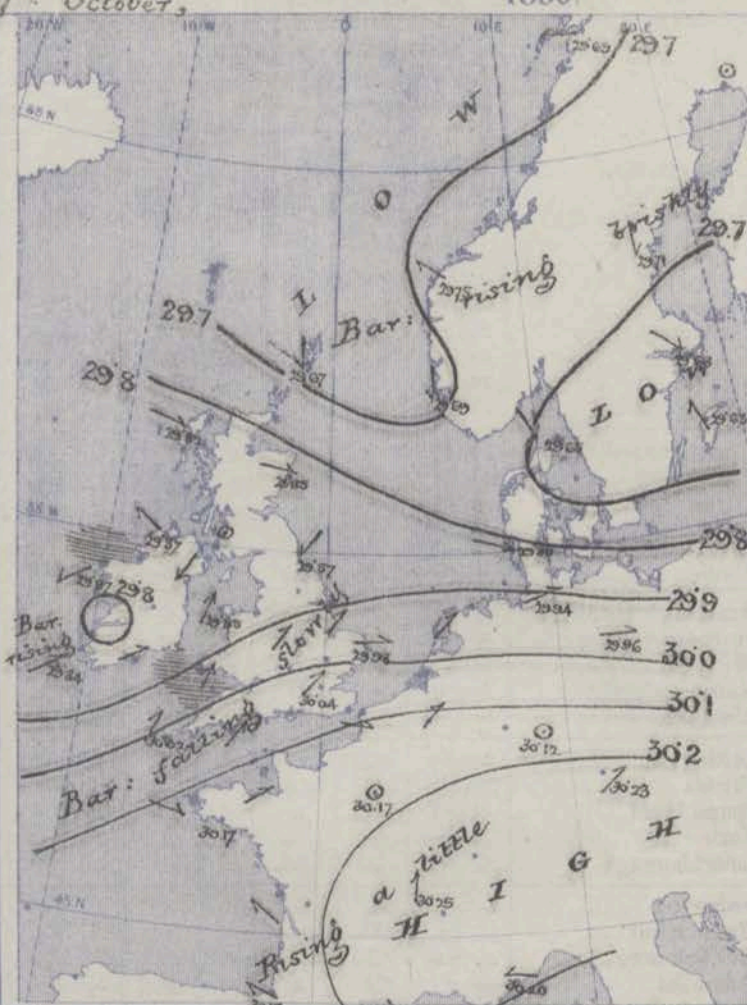
at 8.0 a.m. for the month of October.

During the 15 Years, 1871—1885.

STATIONS.

MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.708
Stornoway	29.735
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TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shown by Letters of the Beaufort Scale.

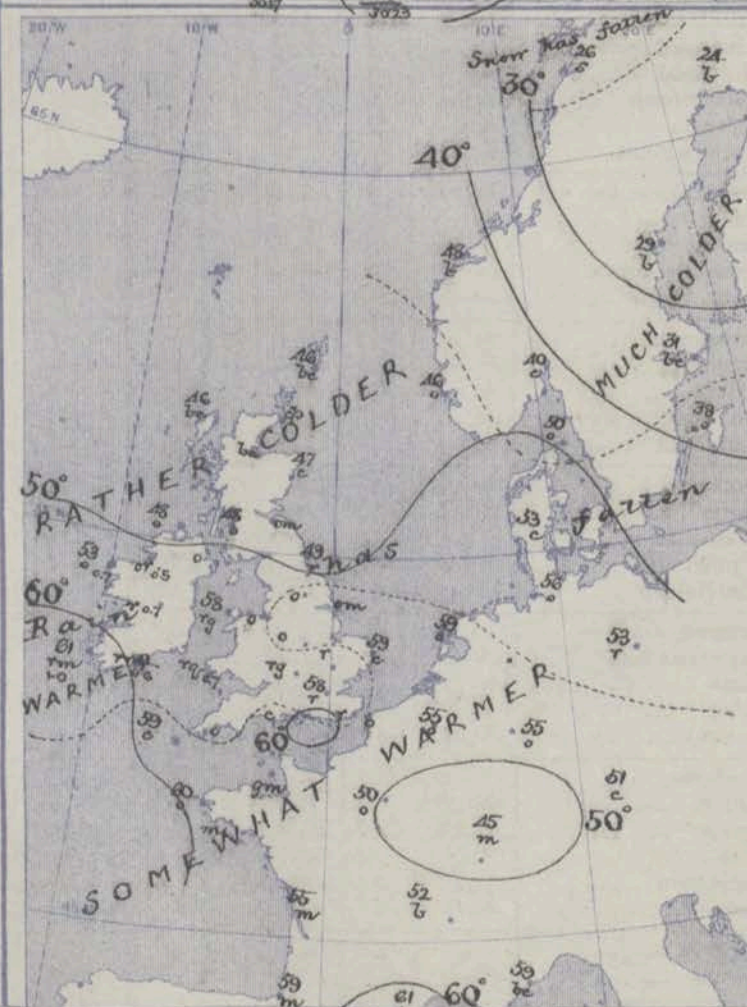
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL

(For the month of October.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	49.7	41.6	46.0	44.3	4.33
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York.....	54.8	41.0	45.9	44.5	2.64
Loughborough.....	55.3	41.4	46.4	45.0	2.98
Ardrossan.....	53.5	43.6	47.6	45.6	4.31
Donaghadee.....	53.2	43.3	47.7	46.5	3.35
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Scilly.....	56.6	50.3	53.8	51.7	3.84
Jersey.....	58.1	49.2	53.6	51.1	4.34
Hurst Castle.....	57.1	46.0	51.4	49.6	3.24
Dover.....	55.8	47.0	50.7	48.7	3.28
LONDON.....	58.6	43.2	48.0	46.4	2.74
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Yarmouth.....	54.3	44.8	49.2	47.9	2.97

NOTE.—The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 20 years 1865-85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.10 in. to 30.25 in. over France and the Bay of Biscay; 29.7 in. and more over Norway and the north of Sweden.
Lowest, below 29.7 in. over the Baltic, and also near the Shetland Isles, and about 29.8 in. over Ireland.
Gradients slight to moderate and very irregular.

Barometer rising at all the northern stations and at Valmiera Island, falling slowly elsewhere.

TEMPERATURE

Highest, 63° at Århus, 61° at Bergen and Valmiera Island, 60° at Hunt Park and Bungevass.

Lowest, 24° to 28° over the northern part of Scandinavia, 45° to 47° in Scotland; 46° at Belfast, 50° at Paris.

The daily maxima recorded over England yesterday varied from 60° to 67°; those in the west and south of France exceeding 70°.

WIND

Very variable at the northern stations; in England it is moderate to fresh from SW; in Ireland there is a complete cyclonic circulation; in France the circulation is anticyclonic.

WEATHER

Fine at most of the northern stations, dull and rainy over Ireland and England; dull in the Netherlands and north of France, rainy at Berlin, fine in the south of France.

The rainfall has been heavy in Ireland and Wales, and extended to London shortly before 8 am today.

SEA

Rough at some of our western stations, moderate, but increasing somewhat in the Channel, slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Very unsettled wet weather seems probable over England and some parts of Ireland.

FORECASTS

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

DISTRICTS.

FORECASTS.

DISTRICTS.

FORECASTS.

0 SCOTLAND
NORTH

W¹ and Varying breezes, light, fair as a whole.

1 SCOTLAND
EAST

E² breezes; fine to rainy.

2 ENGLAND
N.E.

3 ENGLAND
EAST

4 MIDLAND
COUNTIES

5 ENGLAND
SOUTH

Same as No 5.

SW² winds, unsettled, rainy, close.

6 SCOTLAND
WEST

Same as No 1.

7 ENGLAND
N.W.

Very Variable winds, rainy, unsettled.

8 ENGLAND
S.W.

Same as No 5.

9 IRELAND
NORTH

NE² winds, rainy to fair.

10 IRELAND
SOUTH

W² and NW² winds, rainy to fair.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.55	54	48	W	6	C	5		Holyhead ...	30.00	57	56	WNW	1	0 9
Sumburgh Head ...	29.48	50	47	WNW	3	C	5		Valencia ...	30.02	60	57	WN	3	0 9m
Stornoway ...	29.71	51	50	WN	4	C	4		Scilly ...	30.12	60	60	WNW	3	C
Aberdeen ...	29.76	57	47	WNW	4	bc	3		Jersey ...	30.17	63	60	W	3	bc
Shields ...	29.88	59	54	WNW	3	C	2		Dungeness ...	30.07	64	60	W	5	C
Ardrossan ...	29.87	59	50	W	4	C	3		London ...	30.07	65	60	W	2	C
Malin Head ...	29.92	54	49	W	4	0	2		Yarmouth ...	29.77	66	59	W	4	bc
Mullaghmore ...	29.97	53	51	WNW	3	0	2		Rochefort ...	30.20	70	62	W	2	C
Belmullet ...	29.56	55	52	WNW	1	0 5	*								

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

Weather fair or fine over nearly the whole of western and southern Europe, as well as in the northern parts of Scandinavia and Russia, but cloudy in the west of our Islands, with rain at Valencia Island. Dull over Sweden, Denmark, Germany, and the Baltic, with rain at Memel and snow at Koenigsberg. Heavy rain falling later in Ireland and the west of England, and dull weather extending eastwards to most parts of the United Kingdom.

Temperature highest 74° at Algiers, 72° at Barcelona, 71° at Palermo and 70° at Brindisi and Tunis; above 60° in nearly all parts of Southern and Eastern Europe, and very little below that point over England and Ireland. Lowest 23° at Uleaborg, 28° at Rodez, Kuopio, and Moscow, and 32° at Krasnaya; below 45° over Southern Austria and some parts of Central France. Subsequently rising to 65° or more over the Central and southeastern part of England; minima in following night above 55° at many of the English and Irish stations.

Wind ^{light} to fresh from the West or SW^{ly} over our Islands, the North Sea, Denmark, Germany and the Baltic; strong to a gale from the same quarters in the south of Scandinavia. Moderate to strong from the eastward in the north of Scandinavia; light from NE in Spain; variable over France, Italy and Austria; chiefly S^{ly} in Algeria. Subsequently backing to the SW^{ly} in the south of Ireland and increasing to a moderate gale at Valencia Island.

Barometer highest 30.3 ins: and upwards over Central France; 30.1 ins: and upwards, in a large anticyclone covering the whole of Southern Europe, and extending northwards as far as the English Channel, Belgium, and Central Germany. Lowest 29.1 ins: and less, in a well marked depression lying over Sweden; 29.4 ins: and less, in a shallower disturbance over the White Sea. Swedish depression subsequently travelling north-eastwards; shallow disturbance beginning to appear off the west of Ireland.

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, 8th October, 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.			BAROMETR.		SHADE TEMP.			WIND.					SHADE TEMP.		
	Reading at 3 rd P. and Sea Level.	Dry.	Dir.	Force (0 to 12.)	Weather.	Reading at 3 rd P. 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 N.)		Max.	Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ...	29.70	23	N	2	b	+29.71	26	25	+2	N	3	0	*	27	14	-	
	Hernösand ...	29.82	28	N	0	b	+29.76	31	30	+3	N	0	0	*	41	23	-	
	Stockholm ...	29.88	32	NW	4	b	+29.89	32	30	+1	N	4	0	*	39	28	-	
	Wisby ...	29.79	39	NE	4	0	+29.92	30	34	+2	NNE	6	0	*	41	34	0.04	
	Bodö ...	29.64	33	E	2	0	+29.84	30	28	+4	E	2	0	*	2	23	-	
	Christiansund	29.88	41	SW	4	0	+30.03	42	38	-6	NNE	7	7	5	?	39	0.24	
	Skudesnaes ...	29.93	44	NNE	2	+	+30.22	42	40	-4	N	4	C	4	46	39	0.98	
	Christiania Fjord (Fardier)	29.91	42	NNE	3	b	+30.05	37	34	-3	NNE	3	0	2	43	34	-	
	Skagen (The Scaw)	29.91	41	NE	1	bc	+30.09	39	35	-11	N	1	b	0	52	36	-	
	Fanö ...	29.82	44	N	1	b	+30.21	37	36	-16	N	2	0	*	55	34	0.35	
BRITISH ISLANDS.	Sumburgh Head	30.00	45	NNE	1	c	+30.36	43	39	-3	N	1	C	2	52	40	0.09	
	Stornoway ...	30.07	44	N	3	bc	+30.36	47	46	+1	N	0	0	2	53	35	0.05	
	Wick ...	30.02	45	NW	3	C	+30.43	41	39	-6	N	1	0	1	53	32	0.05	
	Nairn ...	30.03	49	N	2	bc	+30.40	42	40	-3	E	1	bc	1	55	39	0.01	
	Aberdeen ...	30.03	45	NNE	3	bc	+30.45	43	41	-4	NW	2	bc	2	55	39	-	
	Leith ...	30.03	50	NE	1	b	+30.44	45	42	-3	N	1	bc	*	61	42	-	
	Shields ...	29.97	51	NNE	1	0	+30.39	46	45	-3	NW	1	C	3	52	41	0.09	
	Spurn Head ...	29.93	52	N	4	0	+30.36	54	50	-4	NE	4	bc	3	60	50	0.02	
	York ...	29.97	49	N	2	m	+30.40	43	43	-15	N	1	0	*	60	39	-	
	Loughborough	29.94	56	NNE	4	+	+30.40	43	43	-15	NNE	1	bc	*	61	39	0.15	
GERMANY & HOLLAND.	Ardrossan ...	30.05	50	NW	1	b	+30.43	45	42	-3	NE	1	bc	0	57	38	-	
	Malin Head ...	30.09	51	N	3	C	+30.38	46	44	-2	SSE	2	0	1	54	45	-	
	Mullaghmore ...	30.11	53	N	5	bc	+30.38	48	46	-3	ESE	4	bc	2	54	41	-	
	Belmullet ...	30.11	52	NE	2	b	+30.37	48	45	-5	E	1	0	*	56	44	-	
	Donaghadee ...	30.04	54	NNE	6	bc	+30.42	52	48	+1	E	4	bc	2	56	50	-	
	Liverpool (Bidston)	29.96	56	N	2	0	+30.41	47	45	-12	ESE	1	bc	2	61	44	0.10	
	Holyhead ...	30.01	55	NNE	4	b	+30.40	52	49	-6	E	3	bc	2	62	47	0.10	
	Parsonstown ...	30.07	53	N	0	b	+30.38	56	56	-23	N	0	0	*	61	36	0.03	
	Valencia ...	30.06	60	N	2	bc	+30.35	54	54	-7	ESE	1	0	1	63	50	0.03	
	Roche's Point...	29.99	60	N	3	C	+30.35	49	47	-11	ESE	2	0	3	62	44	0.10	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.99	57	N	4	+	+30.35	50	48	-7	ESE	3	0	3	59	48	0.16	
	Scilly ...	30.01	59	NNE	4	0	+30.24	59	58	-1	NE	3	0	3	61	35	0.02	
	Prawle Point ...	30.03	58	N	6	m	+30.30	58	57	+1	ESE	5	0	4	59	51	0.12	
	Jersey (St. Aubin's)	30.11	60	NNE	4	ogm	+30.21	60	58	+1	NE	5	0	4	62	57	0.16	
	Hurst Castle ...	29.99	60	N	8	+	+30.31	53	51	-7	NE	5	bc	4	63	50	0.05	
	Dungeness ...	29.94	60	N	6	0	+30.24	53	51	-7	NE	4	bc	2	62	53	0.14	
	London ...	29.95	60	SW	1	0	+30.31	49	47	-9	NE	2	0	*	62	47	0.29	
	Oxford ...	29.98	59	SW	2	+	+30.36	48	46	-5	NE	3	bc	*	61	42	0.33	
	Cambridge ...	29.98	58	N	1	+	+30.37	47	46	-12	N	1	0	*	60	41	0.36	
	Yarmouth ...	29.88	59	N	2	0	+30.31	55	50	-4	NE	4	bc	4	61	52	0.06	
PENINSULA.	Cuxhaven ...	29.84	52	N	4	bc	+30.10	47	45	-9	NE	4	0	*	56	47	0.45	
	Berlin ...	29.76	57	N	5	+	+30.08	47	44	-6	NNE	4	0	*	59	46	0.71	
	Wiesbaden ...	*	*	*	*	*	+30.10	54	50	-1	N	4	0	*	64	52	0.35	
	Munich ...	30.12	59	N	4	0	+30.04	54	53	+3	SW	6	+	*	66	52	0.51	
	The Helder ...	29.87	55	NNE	3	+	+30.24	54	50	-5	NE	3	0	3	61	52	0.12	
	Brussels (9 a.m.)	*	*	*	*	*	+30.22	52	49	-3	NNE	3	0	*	61	50	0.28	
	Cape Gris Nez	30.01	60	N	5	+	+30.19	56	51	-3	ESE	5	0	6	64	50	0.12	
	Paris ...	30.09	63	NNE	1	0	+30.15	59	58	+9	NW	2	0	*	70	?	0.04	
	Brest ...	30.13	61	NNE	3	0	+30.19	60	59	+1	NNE	2	0	3	?	52	0.04	
	Lorient ...	30.23	60	N	4	0	+30.19	60	59	+2	NW	3	0	3	63	57	-	

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

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

WEATHER CHARTS

for 8 a.m. on

WEDNESDAY, 8TH OCTOBER

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

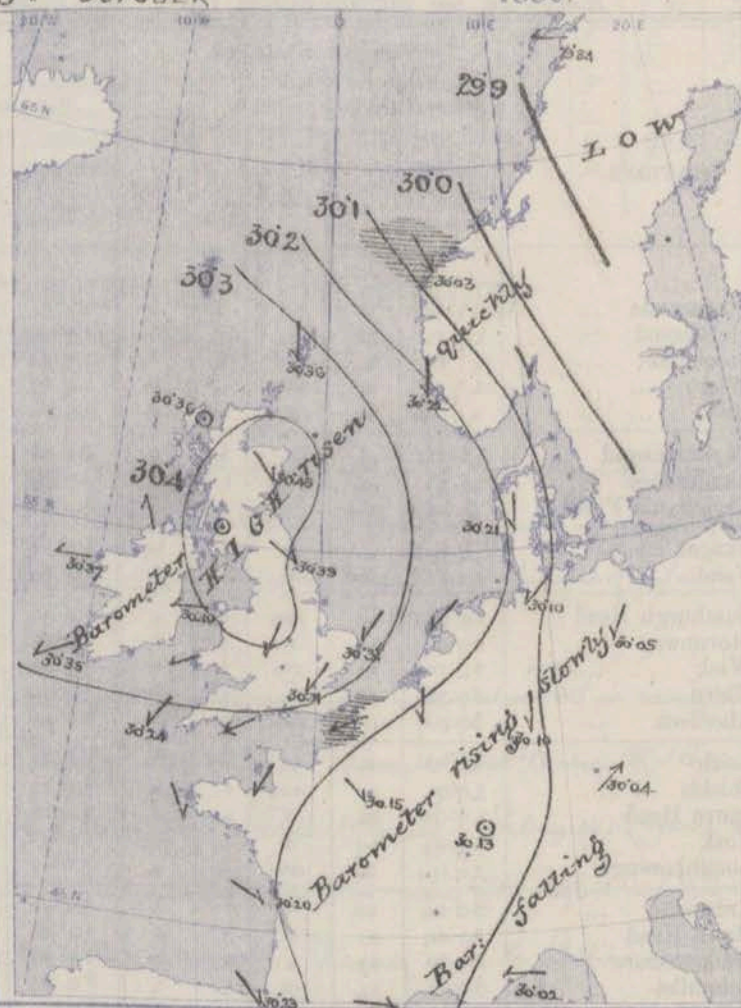
at 8.0 a.m. for the month of October.

During the 15 Years: 1871—1885.

STATIONS.

MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.708
Stornoway	29.735
Wick	29.745
Nairn	29.761
Aberdeen	29.774
Leith	29.804
Shields	29.835
York	29.872
Loughborough	29.891
Ardrossan	29.813
Donaghadee	29.832
Holyhead	29.853
Liverpool	29.864
Parsonstown	29.881
Valencia	29.873
Roche's Point	29.870
Pembroke	29.868
Scilly	29.894
Jersey	29.904
Hurst Castle	29.907
Dover	29.909
LONDON	29.911
Oxford	29.910
Cambridge	29.900
Yarmouth	29.886



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.

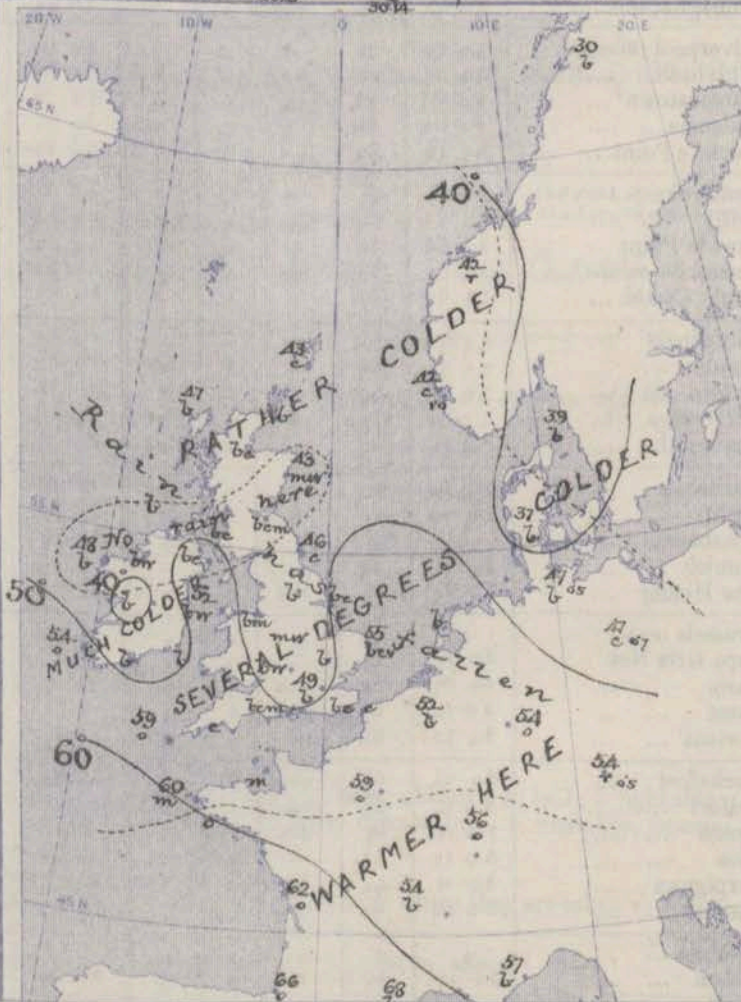
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL

(For the month of October.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	49.7	41.6	46.0	44.3	4.33
Stornoway.....	50.5	39.5	45.3	44.1	4.94
Wick.....	51.6	40.1	46.1	44.3	2.04
Nairn.....	51.6	40.6	44.5	42.5	2.38
Aberdeen.....	52.3	41.0	45.5	43.5	2.88
Leith.....	54.7	41.5	46.5	44.7	1.94
Shields.....	53.0	42.8	47.1	45.4	2.46
York.....	54.8	41.0	45.9	44.5	2.64
Loughborough.....	55.3	41.4	46.4	45.0	2.98
Ardrossan.....	53.5	43.6	47.5	45.6	4.31
Donaghadee.....	53.2	43.3	47.7	46.5	3.33
Holyhead.....	54.5	47.0	50.2	48.2	4.53
Liverpool.....	53.6	44.6	47.8	45.8	3.02
Parsonstown.....	54.7	41.1	46.4	44.7	3.27
Valencia.....	56.6	46.5	51.3	49.1	6.09
Roche's Point.....	55.8	42.9	50.2	48.4	4.17
Pembroke.....	54.8	48.0	51.2	49.1	4.13
Scilly.....	56.6	50.3	53.8	51.7	3.84
Jersey.....	58.1	49.2	53.6	51.1	4.34
Hurst Castle.....	57.1	46.0	51.4	49.6	3.24
Dover.....	55.8	47.0	50.7	48.7	3.28
LONDON.....	56.6	43.2	48.0	46.4	2.74
Oxford.....	55.3	42.5	46.7	45.3	2.72
Cambridge.....	56.4	41.2	46.4	45.4	2.36
Yarmouth.....	54.3	41.8	49.2	47.0	2.97

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 in. to 30.4 in. and more, over the British Islands.
 Lowest, 30.0 in. in the southeast of France, 29.9 in. and less, over Lapland and the north of Sweden.
 Gradients slight in our Islands, moderate over Scandinavia.
 Barometer rising generally.

TEMPERATURE

Highest, 66° at Perpignan, 66° at Biarritz, 53° to 50° at the Channel stations.
 Lowest, 30° at Bodo, 36° at Hammerfest, 37° at Sledota and Peus.
 Over England the readings vary from 43° to 48°.

WIND

Calm in Ireland, very light and variable in Scotland, NE. over England and the Channel, NW. over the Bay of Biscay, N. in Norway and Denmark.

WEATHER

Cloudy over France, rainy in South Germany, fine generally elsewhere, and hazy in some places.
 Rainfall yesterday was heaviest over Germany and the southern parts of England; at Berlin the fall was 0.7 in., in London 0.3 in.

SEA

Moderate in the Channel, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Time weather is probable, with a very cold, and perhaps foggy, night at our inland stations.

FORECASTS

For the 24 hours ending at NOON on 9th OCT. 1890.

DISTRICTS.

FORECASTS.

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

Varying light winds and calms;
 very cold at night, fair, some fogs.
 NE. breezes, moderate to light;
 much colder tonight, some fog.

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.

Same as No 5

Calms and E. or SE. airs; fair,
 cold tonight and foggy.

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 ...	29.77	45	44	Z	0	r	3		Holyhead ...	29.89	58	57	W	3	3
Sumburgh Head ...	29.82	49	46	Z	0	c	3		Valencia ...	29.95	60	59	W	2	2
Stornoway ...	29.96	52	50	W	4	c	4		Scilly ...	30.02	60	60	SW	5	3
Aberdeen ...	29.92	53	47	W	4	bcq	3		Jersey ...	30.13	62	59	WSW	4	3
Shields ...	29.90	50	48	W	1	0	3		Dungeness ...	30.00	60	59	W	5	4
Ardrossan ...	29.94	57	51	W	3	bc	2		London ...	29.97	60	59	SW	3	4
Malin Head ...	30.01	52	48	W	3	c	3		Yarmouth ...	29.92	61	59	W	3	2
Mullaghmore ...	29.99	56	52	W	5	c	4		Rochefort ...	30.26	73	68	W	2	2
Belmullet ...	30.01	56	51	W	4	b	*								

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

Weather fine in Scandinavia and Scotland, as well as over the greater part of Southern Europe. Dull elsewhere, with rain at most of the English and Irish stations and also at St. Petersburg, Berlin, and Algiers. Improvement taking place later in Ireland and the west of England, but rain setting in over the Netherlands, Germany, and the north of France, and showers falling in some parts of Scotland.

Temperature highest 75° at Tunis, 73° at Barcelona and Algiers, 70° at La Jolla and Malta, and 69° at Jaffa; high, 55° to 61° over all the more southern parts of England and Ireland. Lowest, 21° at Uleaborg, 24° at Haparanda, 26° at Rode, 28° at Helsingfors, and 30° at Archangel and Kuopio; below 35° over the northern parts of Russia and Scandinavia generally. Daily maxima very little above 60° in any part of the United Kingdom, but thermometer exceeding 70° in France.

Wind moderate to strong from the SW^W over England and the south of Ireland, but NE^E in the northern parts of the latter country. Light from the W^W in Scotland as well as in Denmark and Germany; SE^E in the west of Norway. Cyclonic circulation reported over Russia with strong N^E winds in the Gulf of Finland. Light E^E over Spain and the south of France, NW^W in Italy, SW^W in Algeria. Subsequently shifting to the N^W in all the more western and northern parts of the United Kingdom, and blowing strongly from the W^W over the eastern parts of the English Channel.

Barometer highest 30.2 ins. and upwards, in an anticyclone lying over Italy, the south of France, and the north of Spain, with all the adjacent parts of the Mediterranean. Lowest, 29.4 ins. and less, in a large depression over Russia, 29.8 ins. and less, in a small and very shallow disturbance lying over Central Ireland. Latter system subsequently moving southwards and undergoing considerable modifications both in size and intensity; barometer rising briskly in the west and north of our Islands.

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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for *Thursday, 9th October, 1890.*
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

Issued by the Meteorological Office, 55, Victoria Street, London. R. H. SCOTT, Secretary.																		
STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barom. Reading at 3 rd P. and Sea Level.	Temp. Dry.	Wind.		Weather.	Barometer. Reading at 3 rd P. and Sea Level. Difference from 8 a.m. yesterday.		Shade Temp.			Wind.		Sea. (0 to 12.)	Weather.	Shade Temp.		Amount of Rainfall.	
			Dir.	Force. (0 to 12.)				Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Weather.	Max.		Min.
SCANDINAVIA.	Haparanda ...																	
	Hernösand ...	29.97	31	N	2	b	29.99	+ .23	30	26	- 1	N	2	b	*	45	25	
	Stockholm ...	29.93	36	NW	2	b	30.02	+ .13	33	31	+ 1	mmw	2	b	*	43	27	
	Visby ...	29.90	44	mmw	6	o	30.02	+ .10	40	35	0	N	8	bc	*	46	36	
	Bodö ...	30.04	28	Z	0	b	29.96	+ .12	27	25	- 3	E	2	bc	1	36	25	
	Christiansund	30.20	41	mmw	6	m	30.00	- .03	39	37	- 3	ssw	3	r	5	39	0.32	
	Skudesnaes ...	30.34	43	NW	1	o	30.15	- .07	44	43	+ 2	SE	4	r	4	48	1.1	0.28
	Christiania Fjord (Fæder)	30.15	45	NW	5	b	30.17	+ .12	44	39	+ 7	mmw	3	o	2	48	?	
	Skagen (The Seaw)	30.12	47	N	4	b	30.20	+ .11	46	43	+ 7	NW	2	o	3	50	37	
	Fanö ...	30.30	47	NW	6	b	30.29	+ .08	45	44	+ 8	NW	1	c	#	52	37	0.04
BRITISH ISLANDS.	Sumburgh Head	30.35	44	Z	0	o	29.97	- .39	53	52	+ 10	mmw	4	o	3	53	41	0.02
	Stornoway ...	30.30	52	SW	4	o	30.12	- .24	55	55	+ 8	SW	4	c	4	55	45	0.02
	Wick ...	30.35	47	N	1	bc	30.12	- .31	53	50	+ 12	SW	3	bc	1	54	38	
	Nairn ...	30.37	48	SW	1	b	30.16	- .24	52	49	+ 10	N	3	b	2	57	40	
	Aberdeen ...	30.42	48	SSW	2	bc	30.21	- .24	45	43	+ 2	SW	1	bmw	3	55	37	
	Leith ...	30.43	48	N	1	bc	30.28	- .16	50	47	+ 5	SW	4	bm	*	54	42	
	Shields ...	30.46	50	ESE	1	bc	30.35	- .04	42	41	- 4	SW	2	m	2	55	39	
	Spurn Head ...	30.47	52	N	2	bc	30.42	+ .06	50	47	- 4	SW	4	b	3	56	45	
	York ...	30.48	51	E	1	b	30.44	+ .04	39	38	- 4	ESE	1	b	#	58	36	
	Loughborough	30.47	52	ESE	1	c	30.48	+ .08	33	33	- 10	ESE	1	fw	*	63	32	
BRITISH ISLANDS.	Ardrossan ...	30.43	54	SSW	1	b	30.32	- .11	53	52	+ 8	SSW	4	bc	3	58	44	
	Malin Head ...	30.38	53	S	3	b	30.28	- .10	51	49	+ 5	S	3	o	1	58	46	
	Mullaghmore ...	30.38	56	SE	3	bc	30.32	- .06	53	51	+ 5	ESE	2	am	2	59	47	
	Belmullet ...	30.36	56	SW	1	b	30.28	- .09	56	55	+ 8	mmw	4	o	#	60	47	0.02
	Donaghadee ...	30.44	49	SW	2	bc	30.37	- .05	42	42	- 10	SW	2	bc	0	57	37	
	Liverpool (Bidston)	30.46	52	ESE	2	b	30.43	+ .02	46	44	- 1	SE	2	bcm	2	57	41	
	Holyhead ...	30.43	51	Z	0	b	30.39	- .01	55	53	+ 3	SSW	3	cw	2	59	46	
	Parsonstown ...	30.40	52	Z	0	b	30.37	- .01	45	44	+ 9	Z	0	c	*	60	35	
	Valencia ...	30.38	57	SSW	3	bm	30.37	+ .02	58	56	+ 4	SSW	2	cm	3	61	53	
	Roche's Point...	30.40	55	SE	3	b	30.40	+ .05	57	55	+ 8	SE	1	c	3	60	48	
BRITISH ISLANDS.	Pembroke (St. Ann's Hd.)	30.41	55	Z	3	bc	30.43	+ .08	51	50	+ 1	E	2	bmw	2	58	49	
	Scilly ...	30.37	57	E	3	c	30.38	+ .14	58	55	- 1	E	3	bc	2	59	53	
	Prawle Point ...	30.39	56	E	4	c	30.42	+ .12	57	55	- 1	E	3	bc	2	59	52	
	Jersey (St. Aubin's)	30.34	59	ESE	4	b	30.41	+ .20	53	50	- 7	E	3	bm	3	63	50	
	Hurst Castle ...	30.42	58	E	4	bc	30.47	+ .16	49	48	- 4	ESE	3	bmw	2	62	45	
	Dungeness ...	30.38	57	NE	5	c	30.46	+ .22	54	49	+ 1	SE	3	bc	2	61	51	
	London ...	30.45	54	ESE	2	bcm	30.48	+ .17	41	40	- 8	Z	0	b	*	62	37	
	Oxford ...	30.49	47	NE	2	b	30.50	+ .14	36	36	- 12	Z	0	b	*	60	36	
	Cambridge ...	30.47	50	N	1	b	30.49	+ .12	41	41	- 6	S	1	b	*	60	34	
	Yarmouth ...	30.43	35	NE	4	bc	30.44	+ .13	46	44	- 9	NW	1	bmw	2	59	42	
GERMANY & HOLLAND.	Cuxhaven ...	30.27	48	NW	4	bc	30.35	+ .25	49	47	+ 2	N	3	c	*	53	48	
	Berlin ...	30.24	46	NW	3	c	30.32	+ .27	41	40	- 6	N	3	bc	*	57	39	
	Wiesbaden ...	*	*	*	*	*	30.46	+ .36	40	39	- 14	Z	1	bc	*	59	34	
	Munich ...	30.35	44	Z	0	b	30.45	+ .41	38	38	- 16	E	1	m	*	54	36	0.47
GERMANY & HOLLAND.	The Helder ...	30.44	52	NNE	1	b	30.44	+ .20	52	47	- 2	N	1	c	1	55	52	
	Brussels (9 a.m.)	*	*	*	*	*	30.54	+ .32	45	43	- 7	Z	0	b	*	59	36	
	Cape Gris Nez	30.36	53	ESE	4	b	30.43	+ .24	46	42	- 10	ESE	3	b	3	61	41	
	Paris ...	30.35	52	N	3	c	30.42	+ .27	40	40	- 19	mmw	1	b	*	?	38	
FRANCE AND BELGIUM.	Brest ...	?	61	SE	3	c	?	?	50	49	- 10	E	3	b	*	66	46	
	Lorient ...	30.25	62	NE	3	u	30.33	+ .14	50	49	- 10	E	4	b	2	64	50	
	Rocheport ...	30.22	64	Z	0	o	30.25	+ .08	51	48	- 11	NE	4	b	*	?	45	
	Belfort ...	30.30	60	E	1	c	30.31	+ .18	45	41	- 11	E	1	b	*	64	40	
FRANCE AND BELGIUM.	Lyons ...	30.19	57	mmw	2	o	30.29	?	46	44	- 8	N	2	b	*	60	45	
	Nice ...	29.95	61	SW	3	bc	30.06	+ .04	59	58	+ 2	ESE	3	b	2	72	55	
	Perpignan ...	30.10	68	NW	4	o	30.16	+ .02	64	58	- 4	NW	4	b	*	73	61	
	Biarritz ...	30.25	66	N	3	o	30.23	+ .00	60	58	- 6	ESE	3	o	2	70	59	
PENIN-SULA.	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Lisbon ...	30.14	43	NW	4	b	30.12	- .08	63	57	0	Z	0	b	2	81	61	

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

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

WEATHER CHARTS

for 8 a.m. on

Thursday 9th October,

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

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

→ = forces 5 to 7; → = forces 1 to 4.

○ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

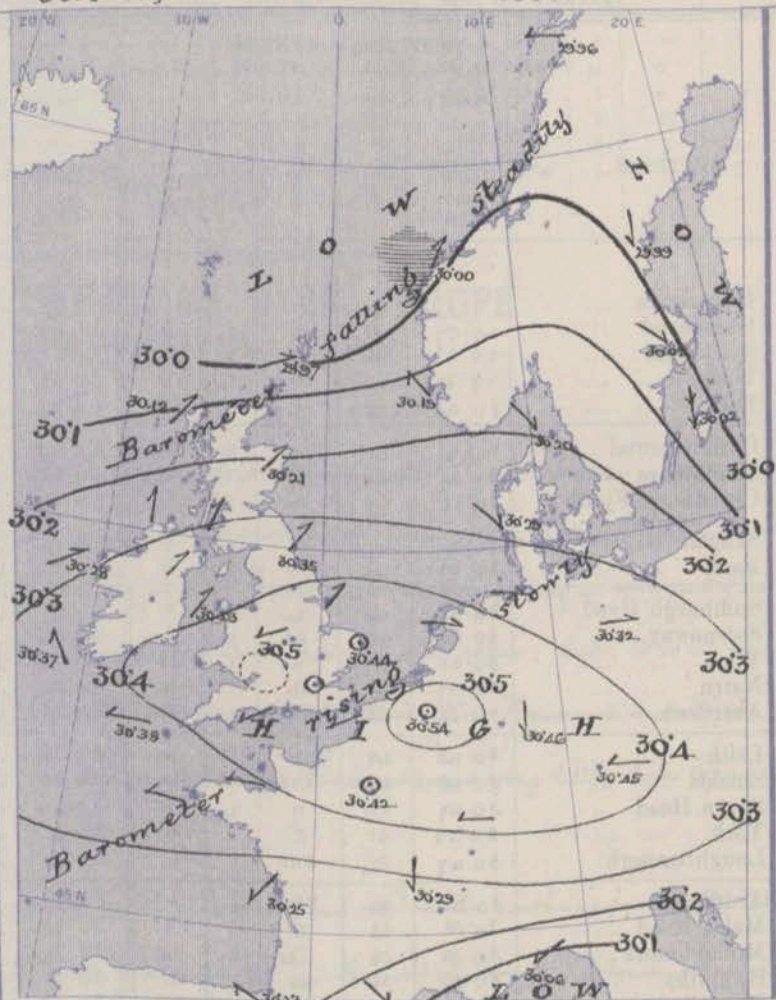
■ = Rough. ■ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.708
Stornoway	29.735
Wick	29.745
Nairn	29.761
Aberdeen	29.774
Leith	29.804
Shields	29.835
York	29.872
Loughborough	29.891
Ardrossan	29.813
Donaghadee	29.832
Holyhead	29.853
Liverpool	29.864
Parsonstown	29.881
Valencia	29.873
Roche's Point	29.870
Pembroke	29.868
Seilly	29.894
Jersey	29.904
Hurst Castle	29.907
Dover	29.909
LONDON	29.911
Oxford	29.910
Cambridge	29.900
Yarmouth	29.886



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.

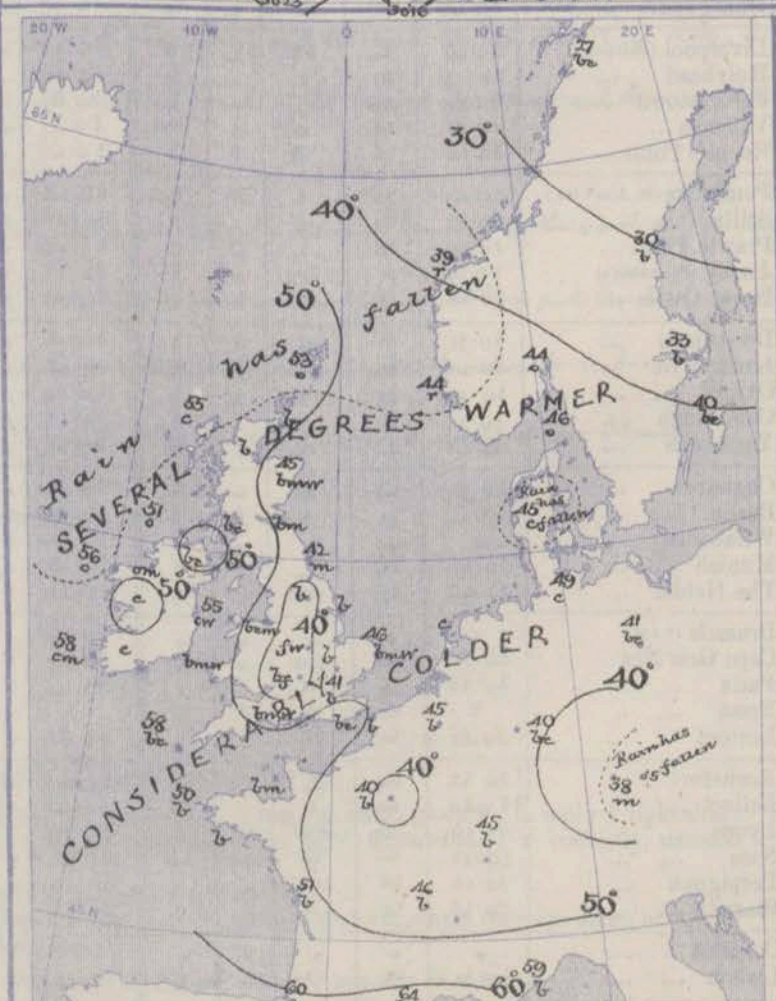
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of October.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	49.7	41.6	46.0	44.3	4.33
Stornoway	50.5	39.5	45.3	44.1	4.94
Wick	51.0	40.1	46.1	44.3	2.94
Nairn	51.0	40.6	44.5	42.5	2.38
Aberdeen	52.3	41.0	45.5	43.5	2.88
Leith	54.7	41.5	46.5	44.7	1.94
Shields	53.0	42.8	47.1	45.4	2.46
York	54.8	41.0	45.9	44.5	2.64
Loughborough	55.3	41.4	46.4	45.0	2.08
Ardrossan	53.5	43.6	47.0	45.6	4.31
Donaghadee	53.2	43.3	47.7	46.5	3.35
Holyhead.....	54.5	47.0	50.2	48.2	4.53
Liverpool	53.0	44.6	47.8	46.8	3.62
Parsonstown	54.7	41.1	46.4	44.7	3.27
Valencia	56.6	46.5	51.3	49.1	6.09
Roche's Point	55.8	45.9	50.2	48.4	4.17
Pembroke.....	54.8	48.0	51.2	49.1	4.13
Seilly	56.6	50.3	53.8	51.7	3.84
Jersey	58.1	49.2	53.6	51.1	4.34
Hurst Castle	57.1	46.0	51.4	49.6	3.24
Dover	55.8	47.0	50.7	48.7	3.28
LONDON	56.6	43.2	48.0	46.4	2.74
Oxford	55.3	42.5	46.7	45.3	2.72
Cambridge	56.4	41.2	46.4	45.4	2.36
Yarmouth	54.3	44.8	49.2	47.0	2.97

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 in. to 30.5 in. in an anticyclone covering France, Germany, and the southern half of the United Kingdom.</p> <p>Lowest, 30.0 in. and less, off the north of Scotland and west of Norway, and also over the eastern part of the Baltic; about 30.1 in. over the southern part of Spain.</p> <p>Gradients moderate in the north (for W. winds), slight and variable elsewhere.</p> <p>Barometer falling in the north, still rising a little in the southwest and south.</p>
TEMPERATURE	<p>Highest, 64° at Lymington, 63° at Linton, 58° at Taloneis Island and Scilly, 55° at Stromway, 53° at Lumburg Road.</p> <p>(1) 27° at Hyde, 30° at Harrogate, 33° at Stockholm.</p> <p>Lowest (2) 23° at Loughborough, 36° at Oxford, 39° at York and 41° in London.</p> <p>(3) 38° at Munich, 40° at Paris and Marseilles, and 44° at Berlin.</p> <p>The daily maxima recorded over England yesterday, exceeded 60° in several places; the night minima were low, 32° in the shade at Loughborough, 37° in the shade in London, and 26° in the open.</p>
WIND	<p>E³, moderate over the Bay of Biscay and the Channel.</p> <p>SE⁴ to SW⁴ in Ireland, SW⁴ to W⁴ in Scotland.</p> <p>Very light and variable (calm in places) over England.</p>
WEATHER	<p>Rain in the west of Norway, fine generally elsewhere, but foggy or hazy at many stations, especially in London and at Oxford.</p>
SEA	<p>Moderate to rather rough in the far north, slight or smooth elsewhere.</p>

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

No immediate change of importance is indicated, but the W⁴ wind in the north appears likely to become more general.

FORECASTS

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

DISTRICTS.

FORECASTS.

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

SW² and W² winds; unsettled, rain at times.

SW² breezes, light or moderate; fair, becoming warmer.

Variable light breezes, becoming warmer in day, very cold again tonight, and perhaps foggy.

DISTRICTS.

FORECASTS.

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

SW² breezes, moderate; a little rain.

E² and SE² breezes, moderate; fine.

S² (SE to SW) winds, moderate; fine in east, showery in west.

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 ...	30.29	48	42	NW	4	c	4	Holyhead ...	30.44	57	52	LS	0	b	0
Sumburgh Head ...	30.39	48	41	LS	0	c	1	Valencia ...	30.38	61	56	SE	3	bcm	3
Stornoway ...	30.33	51	51	LS	3	c	3	Scilly ...	30.32	58	56	E	3	c	3
Aberdeen ...	30.45	53	46	SSE	2	b	2	Jersey ...	30.30	62	59	ESE	5	b	4
Shields ...	30.47	62	47	E	2	c	3	Dungeness ...	30.35	61	53	NE	5	b	3
Ardrossan ...	30.45	57	51	W	1	b	1	London ...	30.41	60	52	NNE	2	b	3
Malin Head ...	30.38	56	51	SSE	3	c	1	Yarmouth ...	30.40	58	53	NNE	4	b	4
Mullaghmore ...	30.38	59	52	SE	5	bc	2	Rochefort ...	30.44	66	64	WSW	3	0	4
Belmullet ...	30.37	60	53	E	1	b	*								

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

Weather fine in all parts of the United Kingdom, as well as over the Netherlands, Denmark, the south of Scandinavia, and the greater part of Southern Europe. Thunder elsewhere, with rain at many of the German stations and also at Christiansund; fog reported in some parts of France and Italy. Subsequently, becoming cloudy in the north of Scotland, with slight rain in the Shetlands and Orkneys.

Temperature highest 73° at Barcelona and Pforz, 72° at Malta, 71° at La Calle and 70° at Algiers; above 60° over nearly the whole of Southern Europe. Lowest, 24° at Ulleboerg, 26° at Kapananda and Kelsingfor, 23° at Kuopio and 30° at St. Petersburg; below 40° over nearly the whole of Scandinavia, Denmark, Russia, and the Baltic, and also over Central Ireland. Daily maxima below 60° in all the more western northern and eastern parts of the United Kingdom as well as over Germany and the Netherlands, but thermometer exceeding 70° in the south of France. Slight frost occurring over Central England at night.

Wind light or moderate from the NW or NW by W over France, Scandinavia, and the north of Russia, from the NE over North Germany, the Netherlands, and the southern parts of the United Kingdom, and from the E over our western coast; variable in Scotland. Light from the NE in Spain; variable in Italy; S in Algeria and also in the south of Russia. Subsequently, shifting to the SE in Ireland and to the SW in Scotland.

Barometer highest, 30.30 ins. to 30.45 ins. in an anticyclone lying over the whole of our Islands and the adjacent parts of the North Sea; high 30.1 ins. and upwards, in another system lying off the south of Italy. Lowest, 29.2 ins. and less in a depression lying over northern Russia; trough of V-shaped secondary disturbances extending southwards as far as Galicia. Anticyclone over our Islands subsequently moving slowly southwards, and barometer beginning to fall on our extreme north and northwest 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 *Friday, 10th October, 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.	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 ...	29.56	31	NE	4	b	29.56	-18	30	28	+2	NW	4	bc	*	56	21	.	
	Hernösand ...	29.77	26	Z	0	b	29.79	-20	23	23	-7	Z	0	bc	*	43	?	.	
	Stockholm ...	29.85	38	Z	0	0	29.77	-25	39	37	+6	E	2	0	*	41	28	.	
	Wisby ...	29.90	42	NW	4	0	29.74	-28	40	39	0	SE	4	0	*	46	36	0.12	
	Bodö ...	29.80	27	E	2	b	29.75	-21	25	22	-2	E	2	b	2	32	21	.	
	Christiansund ...	29.58	49	SW	3	r	29.61	-39	47	46	+8	SE	1	r	4	48	?	1.22	
	Skudesnaes ...	29.89	54	W	7	0	29.91	-24	55	54	+11	W	6	r	5	55	?	1.06	
	Christiania Fjord (Færdar)	29.74	50	NW	3	0	29.71	-46	47	45	+3	NW	3	0	3	50	?	0.32	
	Skagen (The Scaw)	29.72	?	SW	6	r	29.71	-49	55	54	+9	NW	4	r	4	55	43	0.39	
	Fanö ...	30.06	54	WNW	6	b	30.01	-28	55	55	+10	WNW	6	c	*	55	45	.	
BRITISH ISLANDS.	Sumburgh Head	29.91	54	W	5	r	29.85	-12	54	54	+1	W	5	0	5	54	51	0.03	
	Stornoway ...	30.05	57	W	6	r	29.98	-14	57	56	+2	W	5	0	5	59	52	0.02	
	Wick ...	30.05	57	W	3	0	30.00	-12	59	56	+6	W	3	bc	1	62	52	0.02	
	Nairn ...	30.09	57	W	3	c	30.03	-13	58	55	+6	SW	3	bc	2	62	51	.	
	Aberdeen ...	30.13	57	WNW	1	bc	30.08	-13	57	55	+12	S	1	bcnw	0	66	44	.	
	Leith ...	30.21	50	WSW	3	bc	30.16	-12	58	56	+8	WNW	4	b	*	63	50	.	
	Shields ...	30.26	57	W	3	bc	30.21	-14	56	54	+14	W	3	c	2	60	39	.	
	Spurn Head ...	30.31	52	SW	3	b	30.26	-16	54	52	+4	WNW	4	bm	3	59	48	.	
	York ...	30.32	55	W	2	b	30.29	-15	51	50	+12	S	1	bc	*	60	37	.	
	Loughborough	30.37	51	SW	1	b	30.36	-12	39	39	+6	SSE	1	f	*	62	33	.	
GERMANY & HOLLAND.	Ardrossan ...	30.25	55	S	3	rm	30.22	-10	56	55	+3	SSW	3	0	3	56	52	.	
	Malin Head ...	30.22	57	SSW	3	0	30.19	-09	57	56	+6	SSW	3	0	2	57	51	.	
	Mullaghmore ...	30.27	57	SSW	3	om	30.24	-08	57	55	+4	S	4	om	3	59	53	.	
	Belmullet ...	30.27	58	WNW	3	0	30.24	-04	58	57	+2	WNW	4	0	*	60	55	0.04	
	Donaghadee ...	30.30	56	SW	2	c	30.28	-09	56	55	+14	SW	2	m	0	62	41	.	
	Liverpool (Bidston)	30.36	54	W	3	b	30.34	-09	53	51	+7	WSW	2	c	2	60	46	.	
	Holyhead ...	30.36	55	SW	4	bm	30.34	-05	58	54	+1	SW	3	cq	2	60	53	.	
	Parsonstown ...	30.33	57	Z	0	0	30.33	-04	52	51	+7	Z	0	bc	*	62	43	.	
	Valencia ...	30.35	39	SSE	3	om	30.33	-04	58	56	0	S	2	om	3	61	56	.	
	Roche's Point...	30.38	57	S	2	bc	30.36	-04	56	54	-1	SSW	2	c	3	62	52	.	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Id.)	30.39	55	S	1	b	30.37	-06	51	51	0	ESE	1	bcw	1	58	48	.	
	Scilly ...	30.35	55	E	3	bc	30.34	-04	55	53	-2	E	1	b	1	60	51	.	
	Prawle Point ...	30.40	52	E	2	b	30.38	-04	55	52	-2	NNE	1	b	1	60	45	.	
	Jersey (St. Aubin's)	30.37	57	E	3	bm	30.39	-02	45	43	-8	ENE	1	bmw	1	61	39	.	
	Hurst Castle ...	30.42	53	SSE	2	b	30.40	-07	46	45	-3	NNE	2	mw	1	62	40	.	
	Dungeness ...	30.39	53	Z	0	b	30.37	-09	41	40	-13	NE	2	m	1	60	36	.	
	London ...	30.40	50	SW	1	bf	30.38	-10	42	41	+1	SW	1	bmw	*	62	37	.	
	Oxford ...	30.41	45	SSW	1	b	30.39	-11	41	40	+5	SW	2	bm	*	60	36	.	
	Cambridge ...	30.39	50	SW	1	b	30.36	-13	48	47	+7	SW	1	b	*	62	39	.	
	Yarmouth ...	30.35	55	W	2	b	30.31	-13	47	46	+1	W	2	bm	2	59	40	.	
GERMANY & HOLLAND.	Cuxhaven ...	30.27	55	W	4	bc	30.09	-26	55	54	+6	W	4	0	*	56	?	.	
	Berlin ...	30.23	48	W	2	0	30.07	-25	50	48	+9	WNW	5	0	*	50	39	.	
	Wiesbaden ...	*	*	*	*	*	30.36	-10	38	37	-2	E	1	b	*	54	34	.	
	Munich ...	30.43	40	NE	2	b	30.38	-07	37	37	-1	SW	1	m	*	48	32	.	
	The Helder ...	30.34	55	W	2	b	30.26	-18	57	54	+5	WNW	2	?	3	57	52	.	
	Brussels (9 a.m.)	*	*	*	*	*	30.36	-07	50	48	+4	SW	1	m	*	61	45	.	
	Cape Gris Nez	30.37	53	SE	1	b	30.34	-04	36	36	-4	NNE	2	b	*	58	35	.	
	Paris ...	30.39	47	WNW	2	b	30.31	?	48	46	-2	E	2	bc	2	59	43	.	
	Brest ...	?	59	E	2	b	30.32	-01	46	44	-4	ENE	3	b	2	63	46	.	
	Lorient ...	30.30	59	ENE	2	b	30.32	-01	46	44	-4	ENE	3	b	2	63	46	.	
FRANCE AND BELGIUM.	Rochefort ...	? 30.23	62	ENE	4	b	? 30.23	-02	45	45	-6	ENE	4	bc	*	70	39	.	
	Belfort ...	? 30.33	60	E	1	bc	? 30.34	+03	39	38	-6	E	1	bc	*	63	38	.	
	Lyons ...	30.32	51	N	1	b	30.36	+07	44	42	-2	NNE	1	b	*	59	41	.	
	Nice ...	30.15	62	W	2	b	30.25	+19	57	54	-2	E	2	bc	3	75	55	.	
	Perpignan ...	30.17	62	SW	2	b	30.28	+12	53	53	-11	SW	2	b	*	77	49	.	
	Biarritz ...	30.19	65	NNE	3	0	30.20	-03	59	57	-1	SE	3	b	2	70	?	.	
	Corunna ...	*	*	*	*	*	30.13	+01	57	55	-6	N	2	m	2	79	57	.	
	Lisbon ...	30.09	62	NW	4	b	30.13	+01	57	55	-6	N	2	m	2	79	57	.	

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

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

WEATHER CHARTS

for 8 a.m. on

Friday, 10th October,

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:

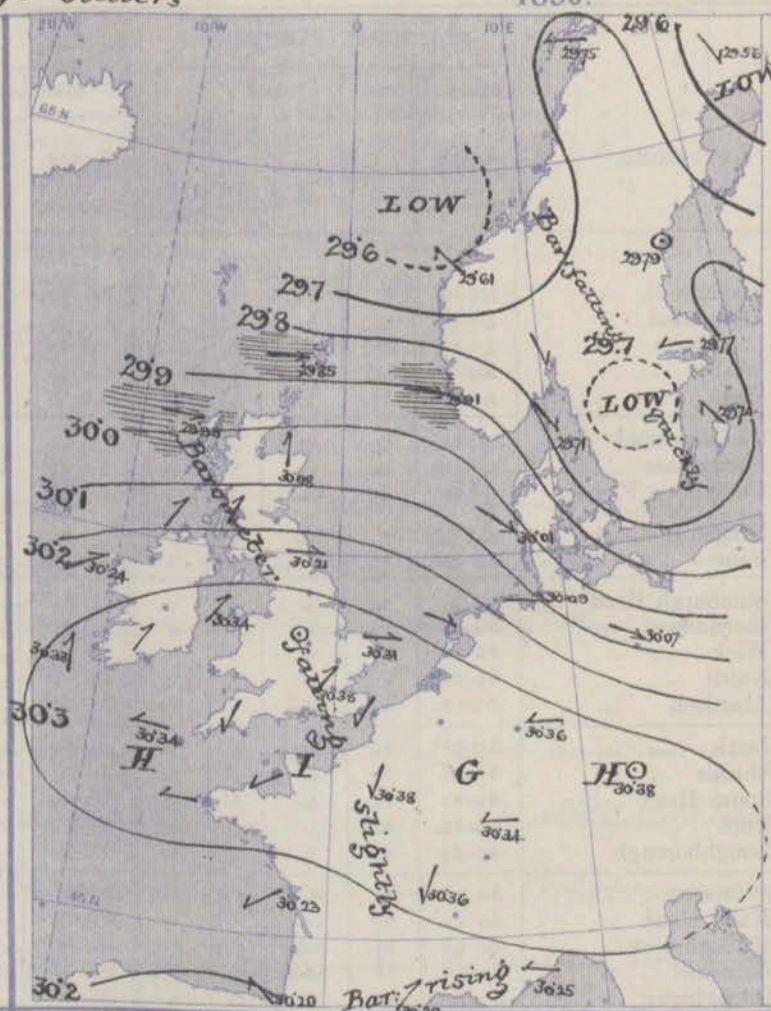
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29.708
Stornoway	29.735
Wick	29.745
Nairn	29.761
Aberdeen	29.774
Leith	29.804
Shields	29.835
York	29.872
Loughborough	29.891
Ardrossan	29.813
Donaghadee	29.832
Holyhead	29.853
Liverpool	29.884
Parsonstown	29.881
Valencia	29.873
Roche's Point	29.870
Pembroke	29.868
Scilly	29.894
Jersey	29.904
Hurst Castle	29.907
Dover	29.909
LONDON	29.911
Oxford	29.910
Cambridge	29.900
Yarmouth	29.886



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.

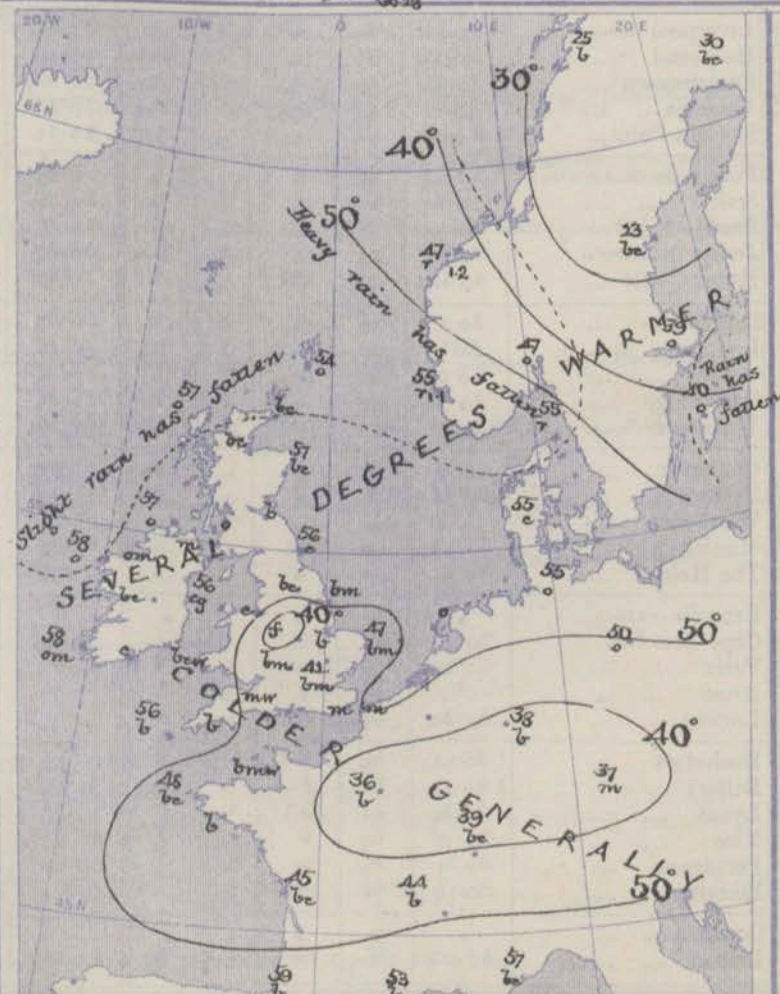
WEATHER—is shown by Letters of the Beaufort Scale.

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 October.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.	at 8 a.m.	
			Dry.	Wet.	
Sumburgh Head	49.7	41.6	46.0	44.3	4.33
Stornoway	50.5	39.5	45.3	44.1	4.94
Wick	51.6	40.1	46.1	44.3	2.94
Nairn	51.6	40.6	44.5	42.5	2.38
Aberdeen	52.3	41.0	45.5	43.5	2.88
Leith	54.7	41.5	46.5	44.7	1.94
Shields	53.0	42.8	47.1	45.4	2.46
York	54.8	41.0	45.9	44.5	2.64
Loughborough	55.3	41.4	46.4	45.0	2.98
Ardrossan	53.5	43.6	47.6	45.6	4.31
Donaghadee	53.2	43.3	47.7	46.5	3.35
Holyhead	54.5	47.0	50.2	48.2	4.53
Liverpool	53.6	44.6	47.8	45.8	3.62
Parsonstown	54.7	41.1	48.4	44.7	3.27
Valencia	56.0	46.5	51.3	49.1	6.09
Roche's Point	55.8	45.9	50.2	48.4	4.17
Pembroke	54.8	48.0	51.2	49.1	4.13
Scilly	56.6	50.3	53.8	51.7	3.84
Jersey	58.1	49.2	53.6	51.1	4.34
Hurst Castle	57.1	46.0	51.4	49.6	3.24
Dover	55.8	47.0	50.7	48.7	3.28
LONDON	56.6	43.2	48.0	46.4	2.74
Oxford	55.3	42.6	46.7	45.3	2.72
Cambridge	56.4	41.2	46.4	45.4	2.38
Yarmouth	54.3	44.8	49.2	47.9	2.97

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 nearly 30.4 in: in an anticyclone covering Ireland, England, France, and Western Germany.
 Lowest, about 29.6 in: and less, off the coast of Norway, and about 29.7 in: over the southern part of Sweden.
 Gradient moderate in the north and east, slight elsewhere.
 Barometer falling slightly in most places.

TEMPERATURE

Highest, 57° to 59° in the north of Scotland and the coast of Ireland, as well as on the Spanish coast, 55° at Huelva and on the Danish coast.
 Lowest, (1.) 23° at Helsingfors, 25° at Rode, 30° at Haparanda; (2.) 33° at Loughborough, 41° at Oxford, 42° in London; (3.) 36° at Paris, 37° at Munich, 38° at Nuremberg, 39° at Belfast.

Sharp frost occurred on the grass over the southern counties of England early this morning, but in the north the cold was not so sharp.

WIND

Strong from the W. on the eastern shores of the North Sea; Moderate W. and SW. in Scotland — S. in Ireland.
 Light E. over the Channel and Bay of Biscay, very light S. over Central England, variable over France and Germany.

WEATHER

Very rainy in the west of Norway; overcast in the northern and western part of Scotland and Ireland; fine generally elsewhere, but hazy or foggy over England and the Channel.
 Rainfall has been very heavy in Norway since yesterday.

SEA

Rather rough in the far north, slight or smooth in the west and east, very smooth in the Channel.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

No important change is indicated.

FORECASTS

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

DISTRICTS.

FORECASTS.

- | | | |
|---|------------------|--|
| 0 | SCOTLAND NORTH | W. and SW. winds, moderate; some showers. |
| 1 | SCOTLAND EAST | |
| 2 | ENGLAND N.E. | { W. winds, light; fine. |
| 3 | ENGLAND EAST | |
| 4 | MIDLAND COUNTIES | { SW. and variable airs; fine, hazy or foggy at times. Cold again tonight. |
| 5 | ENGLAND SOUTH | |

DISTRICTS.

FORECASTS.

- | | | |
|----|---------------|---------------------------|
| 6 | SCOTLAND WEST | Same as No. 0. |
| 7 | ENGLAND N.W. | |
| 8 | ENGLAND S.W. | SW. breezes, light; fine. |
| 9 | IRELAND NORTH | SE. breezes, light; fine. |
| 10 | IRELAND SOUTH | |

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

THER: WIND								THER: WIND							
	BAR:	D.	W.	D.	F.	WEA.	SEA.		BAR:	D.	W.	D.	F.	WEA.	SEA.
Skudesnaes ...	29.95	52	51	w	6	r f	4	Holyhead ...	30.38	59	55	sw	4	bc	3
Sumburgh Head ...	29.95	54	53	w	5	o	5	Valencia ...	30.36	60	59	s	4	om	3
Stornoway ...	30.06	58	57	sw	4	o	4	Scilly ...	30.38	59	55	E	3	bc	2
Aberdeen ...	30.13	64	57	sw	1	b	1	Jersey ...	30.40	60	55	E	4	b	2
Shields ...	30.27	60	55	w	2	c	2	Dungeness ...	30.42	60	52	s	2	b	1
Ardrossan ...	30.28	55	54	sw	4	o	2	London ...	30.42	60	53	sw	1	b	x
Malin Head ...	30.24	56	54	ssw	3	o	1	Yarmouth ...	30.39	58	51	w	2	b	2
Mullaghmore ...	30.29	58	55	ssw	4	o	3	Rocheport ...	30.26	63	59	ENE	4	b	2
Belmullet ...	30.29	58	57	sw	3	om	*								

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

Weather fine over the greater part of Europe, but dull in the west of Ireland as well as over Norway, Central Russia, Eastern Germany, Austria, and the central parts of the Mediterranean. Rain falling in the west of Norway and also at Warsaw and La Calle, snow reported at Moscow. Fog prevailing in morning over the inland parts of England. Slight rain falling later in the extreme north of Scotland and heavy amounts in the west of Norway.

Temperature highest 77° at Algiers, 71° at Barcelona, 70° at Madrid, and 68° at Palma and La Calle; above 60° in nearly all parts of Southern Europe, but considerably below that point in Central Spain. Lowest (1) 28° at Kuopio, 29° at Helsingfors, 30° at Moscow and Kiev, and 31° at Uleaborg and Kharkov, (2) 33° at Loughborough and 36° at Oxford, (3) 38° at Munich, 38° at Berlin, and 40° at Paris. Subsequently rising to a little above 60° in most parts of the United Kingdom, but ground frost occurring over Central England at night.

Wind chiefly anticyclonic. Moderate SW^{ly} in the northern parts of the United Kingdom, W^{ly} on the eastern shores of the North Sea, NW^{ly} or N^{ly} over Russia and Central Europe, and NE^{ly} or E^{ly} in France and Italy. Light from the SE^{ly} or S^{ly} in the west of Norway and also in Algeria, variable in Spain. Subsequently increasing to a gale from SW and W in the west of Norway.

Barometer highest, 30.5 ins. and upwards in Belgium, 30.3 ins. and upwards, over nearly the whole of Ireland, England, the Netherlands, Germany, and the north of France. Lowest 29.1 ins. and less, in a depression lying over the extreme north of Russia; 30.0 ins. and less, in another system lying to the northward of our Islands, and also in a large area lying over the eastern parts of the Mediterranean. Depression to the northward ^{of our Islands}, subsequently travelling eastwards over the west of Norway, and anticyclone moving slightly southward.

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, 11th October, 1890.*
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

Issued by the Meteorological Office, 55, 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 10).	SHADE TEMP.		Amount of Rainfall.	
			Direc.	Force (0 to 12).		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force (0 to 12).			Max.	Min.		
SCANDINAVIA.	Haparanda ...	29.69	28	Z	0	b	29.63	+0.7	20	19	-10	NNE	2	bc	2	36	?	-
	Hernösand ...	29.69	34	E	2	T	29.50	-0.2	35	34	+12	SW	0	0	2	39	19	0.13
	Stockholm ...	29.75	42	Z	0	T	29.61	-0.16	44	43	+5	SW	2	f	2	46	34	0.04
	Wisby ...	29.83	44	SE	4	T	29.68	-0.06	51	50	+11	WSW	4	0	0	?	?	0.04
	Bodö ...	29.89	30	E	4	b	29.35	-0.54	32	30	+7	E	4	0	2	?	23	-
	Christiansund ...	29.60	48	NW	8	T	29.51	-0.10	48	47	+1	WSW	8	T	5	52	?	-
	Skudesnaes ...	29.89	56	W	6	0	29.93	+0.02	54	51	-1	W	4	0	4	55	52	0.12
	Christiania Fjord (Færdier) ...	29.71	55	WSW	5	0	29.64	-0.07	56	53	+9	WSW	5	bc	4	?	?	-
	Skagen (The Scaw) ...	29.78	55	NW	6	b	29.77	+0.06	55	54	0	NW	6	b	4	59	54	-
	Fanö ...	30.07	56	WNW	6	0	30.08	+0.07	56	55	+1	WNW	5	0	4	59	55	-
BRITISH ISLANDS.	Sumburgh Head ...	29.79	55	W	5	T	29.83	-0.02	51	49	-3	W	4	c	5	55	48	0.04
	Stornoway ...	29.91	54	SW	6	0	30.00	+0.02	51	51	-6	SW	4	bc	4	59	48	0.03
	Wick ...	29.93	59	W	4	0	30.00	-0.0	56	53	-3	NW	3	bc	1	63	48	-
	Nairn ...	29.98	60	SW	4	c	30.05	+0.02	53	51	-5	Z	0	cp	0	63	51	0.07
	Aberdeen ...	30.04	61	SW	2	0	30.08	-0.0	52	50	-5	ENE	1	cw	2	70	50	0.01
	Leith ...	30.15	59	W	4	bc	30.13	-0.03	57	55	-1	W	4	0	2	64	56	-
	Shields ...	30.20	58	WSW	3	c	30.18	-0.03	57	54	+1	W	4	c	2	61	53	-
	Spurn Head ...	30.25	54	W	2	bm	30.26	-0.0	53	51	-1	W	3	bm	3	60	48	-
	York ...	30.27	57	W	3	bc	30.27	-0.02	55	53	+4	W	1	b	2	60	50	-
	Loughborough ...	30.31	56	WSW	1	b	30.35	-0.01	42	42	+3	Z	0	bcw	2	68	39	-
GERMANY & HOLLAND.	Ardrossan ...	30.19	57	S	2	b	30.19	-0.03	56	55	0	SW	3	c	3	57	55	-
	Malin Head ...	30.15	57	SSW	3	0	30.14	-0.05	56	55	-1	SSW	4	op	2	58	55	-
	Mullaghmore ...	30.23	58	SSW	4	om	30.22	-0.02	56	55	-1	SSW	5	opm	3	60	54	-
	Belmullet ...	30.23	58	WSW	2	0	30.23	-0.01	57	54	-1	SW	3	om	2	59	57	0.03
	Donaghadee ...	30.24	59	SW	2	bc	30.25	-0.03	54	53	-2	SW	3	e	1	63	52	-
	Liverpool (Bidston) ...	30.32	55	W	2	bc	30.33	-0.01	53	51	0	SW	2	bc	2	59	50	-
	Holyhead ...	30.32	56	SW	3	c	30.32	-0.02	55	53	-1	SW	2	cq	2	60	54	-
	Parsonstown ...	30.29	57	Z	0	c	30.31	-0.02	54	52	+2	Z	0	0	2	61	51	-
	Valencia ...	30.32	59	SSW	3	om	30.33	-0.0	54	53	-1	SW	3	om	2	62	52	-
	Roche's Point ...	30.34	57	SSW	2	b	30.34	-0.02	56	54	0	WSW	1	c	3	62	50	-
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.) ...	30.36	56	W	1	bc	30.37	-0.0	55	53	+4	W	1	bc	1	60	50	-
	Scilly ...	30.33	56	E	1	b	30.33	-0.01	56	55	0	E	1	bcw	2	60	51	-
	Prawle Point ...	30.37	53	ENE	1	b	30.37	-0.01	57	54	+2	ENE	1	bcw	1	61	47	-
	Jersey (St. Aubin's) ...	30.35	57	NNE	2	bm	30.39	-0.0	47	46	+2	ENE	1	bmw	1	64	43	-
	Hurst Castle ...	30.36	56	WSW	2	bm	30.39	-0.01	46	45	0	NNE	1	f	1	62	41	0.02
	Dungeness ...	30.32	56	W	3	bc	30.35	-0.02	45	44	+4	NW	1	b	0	62	41	-
	London ...	30.34	51	WSW	1	bf	30.36	-0.02	46	45	+4	Z	0	bcw	2	64	40	-
	Oxford ...	30.35	52	Z	0	b	30.34	-0.02	50	49	+9	SW	2	ow	2	63	41	-
	Cambridge ...	30.33	58	W	1	b	30.36	-0.0	46	46	-2	SW	1	om	2	67	41	-
	Yarmouth ...	30.28	59	WNW	1	b	30.29	-0.02	52	50	+5	WNW	2	bmw	2	63	46	-
PENINSULA.	Cuxhaven ...	30.16	57	W	4	0	30.19	+0.10	56	56	+1	WSW	4	f	2	60	55	-
	Berlin ...	30.14	54	WNW	5	T	30.21	+0.14	56	55	+6	WNW	4	f	2	57	?	0.04
	Wiesbaden ...	*	*	*	*	*	30.41	+0.05	42	40	+4	NNE	1	0	2	59	?	-
	Munich ...	30.39	44	Z	0	b	30.44	+0.06	41	39	+4	Z	0	b	2	55	34	-
	The Helder ...	30.28	58	WSW	2	c	30.27	+0.01	58	56	+1	WSW	2	f	2	59	54	-
	Brussels (B.M.) ...	*	*	*	*	*	30.40	+0.02	46	45	-1	SSE	1	b	2	59	41	-
	Cape Gris Nez ...	30.34	56	W	2	b	30.35	-0.01	52	52	+2	WNW	3	m	2	61	46	-
	Paris ...	30.37	50	NNE	2	b	30.41	+0.03	34	33	-2	NNE	1	0	2	63	32	-
	Brest ...	?	58	ENE	2	b	?	?	50	48	+2	SSE	2	b	2	57	43	-
	Lorient ...	30.30	61	ENE	2	b	30.31	-0.01	49	46	+3	E	3	b	2	64	46	-
PENINSULA.	Rochefort ...	30.33	54	W	1	b	30.34	-0.0	42	32	+3	E	1	b	2	64	38	-
	Belfort ...	30.32	55	N	2	b	30.38	+0.02	44	43	0	WNW	1	b	2	62	44	-
	Lyons ...	30.24	61	SW	3	bc	30.28	+0.03	58	55	+1	ENE	3	b	1	70	54	-
	Perpignan ...	30.26	57	Z	0	b	30.32	+0.04	50	50	-3	E	2	0	2	69	47	-
	Biarritz ...	30.20	66	E	3	b	30.23	+0.03	60	59	+1	SE	2	b	2	75	57	-
	Cornwall ...	*	*	*	*	*	30.17	+0.04	63	56	+6	NNE	4	bc	?	75	?	-
Lisbon ...	30.13	64	NW	2	b	30.17	+0.04	63	56	+6	NNE	4	bc	?	75	?	-	

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, 11th October,

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:

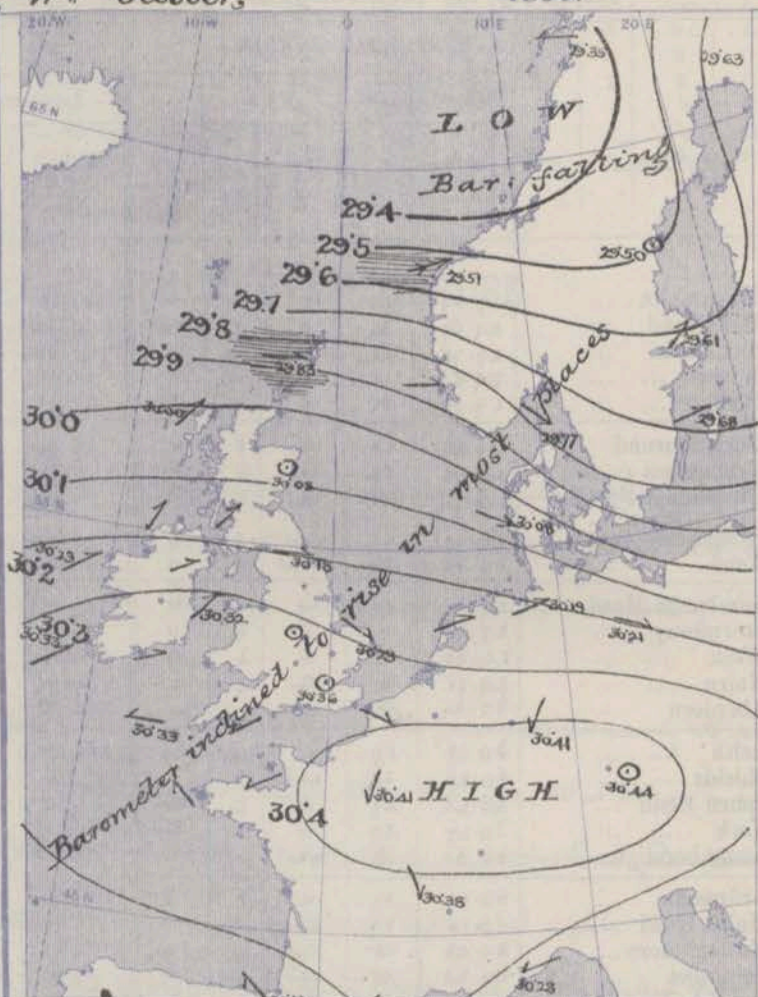
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.708
Stornoway	29.735
Wick	29.745
Nairn	29.761
Aberdeen	29.771
Leith	29.804
Shields	29.835
York	29.872
Loughborough	29.891
Ardrossan	29.813
Donaghadee	29.832
Holyhead	29.853
Liverpool	29.864
Parsonstown	29.831
Valencia	29.873
Roche's Point	29.870
Pembroke	29.868
Scilly	29.894
Jersey	29.904
Hurst Castle	29.907
Dover	29.909
LONDON	29.911
Oxford	29.910
Cambridge	29.900
Yarmouth	29.886



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.

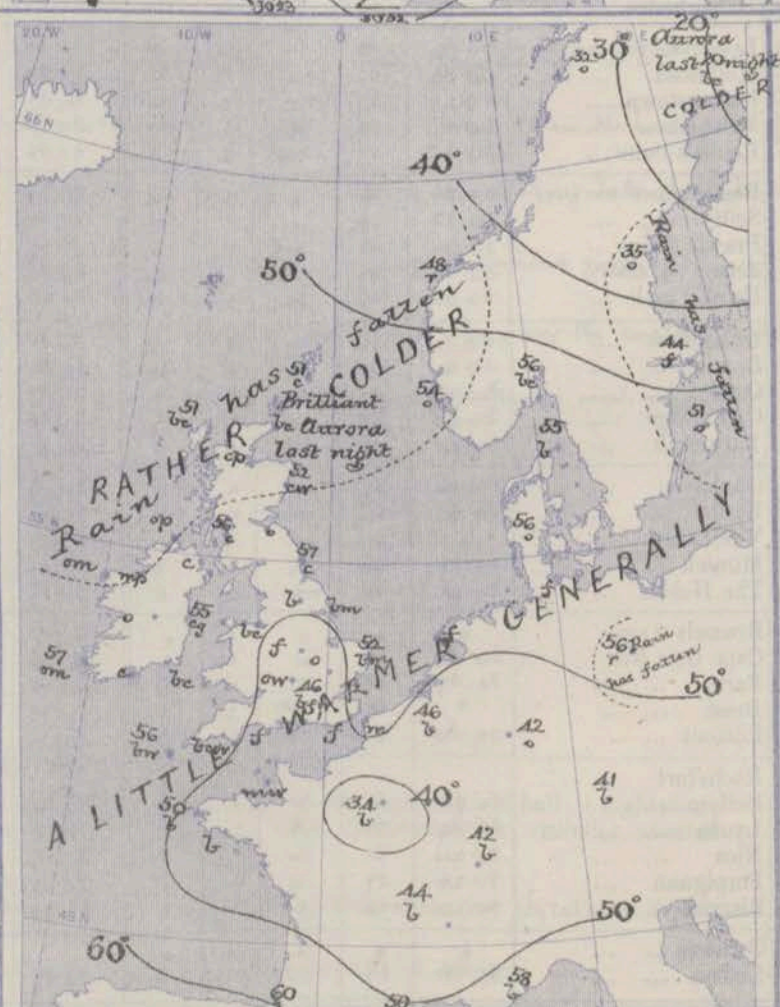
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of October.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Day.	Night.	
Sumburgh Head	49.7	41.6	46.0	44.3	4.33
Stornoway	50.5	39.5	45.3	44.1	4.94
Wick	51.6	40.1	46.1	44.3	2.94
Nairn	51.6	40.6	44.5	42.5	2.38
Aberdeen	52.3	41.0	45.5	43.5	2.88
Leith	54.7	41.5	46.5	44.7	1.94
Shields	53.0	42.8	47.1	45.4	2.46
York	54.8	41.0	45.9	44.5	2.64
Loughborough	55.3	41.4	46.4	45.0	2.98
Ardrossan	53.5	43.6	47.6	45.6	4.31
Donaghadee	53.2	43.3	47.7	46.5	3.35
Holyhead	54.5	47.0	50.2	48.2	4.53
Liverpool	53.0	44.6	47.8	45.8	3.62
Parsonstown	54.7	41.1	48.4	44.7	3.27
Valencia	56.6	46.5	51.3	49.1	6.09
Roche's Point	55.8	45.9	50.2	48.4	4.17
Pembroke	54.8	48.0	51.2	49.1	4.13
Scilly	55.6	50.3	53.8	51.7	3.84
Jersey	58.1	49.2	58.6	51.1	4.34
Hurst Castle	57.1	46.0	51.4	49.6	3.24
Dover	55.8	47.9	50.7	48.7	3.28
LONDON	56.6	43.2	48.0	46.4	2.74
Oxford	55.3	42.5	46.7	45.3	2.72
Cambridge	56.4	41.2	46.4	45.4	2.36
Yarmouth	54.3	41.8	49.2	47.9	2.97

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 in. to 30.4 in. and more, in an anticyclone lying over France, Germany, and the southern parts of our Islands.
Lowest, 29.4 in. and less, off the northwest of Norway, 30.2 in. and less, over the southern half of Spain.
Gradients moderate in the north, slight in the south.
Barometer very unsettled.

TEMPERATURE

Highest, 63° at Lisbon, 60° at Biarritz, 58° at the Helder, 57° at Howe Point and Valencia.
Lowest, (1) 20° at Haparanda, 32° at Bodø, 35° at Tromsø; (2) 42° at Loughborough, 46° in London and at Cambridge; (3) 34° at Paris, 41° at Munich, 40° at Wiesbaden and Belfort.
 The daily maxima recorded over England varied from 60° to 67°; that at Aberdeen was as high as 70°.

WIND

Still blowing a gale from the West at Christiansund, but moderate from N. and S.W. in the north and west of Scotland, and from the S.W. in Ireland.
 Over England and France calm and variable air prevail, while over the Bay of Biscay and at Billy the wind is E.

WEATHER

Still cloudy and somewhat showery in the extreme west and north, fine elsewhere, but foggy or hazy in many places.
 Brilliant Aurora was seen at the northern stations last night.

SEA

Again rather rough in the extreme north, smooth generally elsewhere, especially in the Channel.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

No important change is indicated at present.

FORECASTS

For the 24 hours ending at NOON on 12th OCT^r 1890.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	} W ^{ly} and SW ^{ly} breezes, moderate to fresh; some showers.
1	SCOTLAND EAST	
2	ENGLAND N.E.	
3	ENGLAND EAST	} W ^{ly} breezes, light; fine.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	} Varying airs; fine, foggy at times—cold during night.

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	Same as No. 0.
7	ENGLAND N.W.	
8	ENGLAND S.W.	SW ^{ly} breezes, moderate or light; fine.
9	IRELAND NORTH	
10	IRELAND SOUTH	E ^{ly} and SE ^{ly} breezes, light; fine.
	WARNINGS	} S ^{ly} winds,—moderate to fresh, and slightly showery in west—light and fine elsewhere.
		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 ...	29.91	55	54	W	4	0	5	Holyhead ...	30.34	59	55	SW	4	0	3
Sumburgh Head ...	29.84	55	55	W	6	0	6	Valencia ...	30.32	61	56	SEW	3	0	3
Stornoway ...	29.95	58	58	SW	5	0	5	Scilly ...	30.35	60	57	E	2	0	1
Aberdeen ...	30.05	70	59	W	3	0	1	Jersey ...	30.37	62	55	E	3	0	3
Shields ...	30.20	60	57	W	3	0	2	Dungeness ...	30.35	61	54	SW	2	0	1
Ardrossan ...	30.21	57	56	SE	2	0	2	London ...	30.35	63	55	W	2	0	0
Mulin Head ...	30.18	57	56	SW	3	0	2	Yarmouth ...	30.30	63	55	W	2	0	2
Mullaghmore ...	30.24	60	56	SW	4	0	3	Rochefort ...	30.26	70	60	NE	3	0	0
Belmullet ...	30.25	58	56	SW	3	0	0								

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

Weather fine over the greater part of Europe, but dull in the extreme west and north of our Islands, as well as in Norway, Germany, Austria, the south of Sweden and some parts of Russia. Rain falling in the west of Norway, and snow at Archangel, Moscow and Kiev; fog or mist reported at several of the English stations. Showers occurring later in the northern parts of Scotland and Ireland. Bright Aurora seen in Scotland at night.

Temperature 72° at Tunis, 70° at San Fernando, Palermo, and Malta, and 68° at Barcelona, Brindisi, and Ancon, above 60° at most of the Mediterranean stations, and very little below that point in Scotland. Lowest, 23° at Hernand, 25° at Porto, 27° at Moscow, and 28° at Kalingor; below 40° in several of the more central parts of England, France, and Germany. Daily maxima over our Islands mostly below 65° but thermometer reaching 67° at Cambridge, 68° at Loughborough, and 70° at Aberdeen. Exceeding 70° in the south of France.

Wind mostly anticyclonic over Western and Southern Europe; S¹ in Ireland, SW¹ or W¹ in the north and east of our Islands, W¹ or NW¹ on the eastern shores of the North Sea, NE¹ or E¹ over France, Spain, Italy, and the extreme south of England. Feeble cyclonic circulation reported over the Baltic, and more decided one over Northern Russia; S¹ breeze in Algeria, N¹ in Tunis. No important change occurring during day.

Barometer highest 30.3 ins. and upwards, over the greater part of England, Ireland, France, Switzerland, and Western Germany; 30.1 ins. and upwards, over nearly the whole of western, southern, and eastern Europe. Lowest 29.1 ins. and less, in a depression lying over the White Sea, 29.6 ins. and less, in another system off the west of Norway; 29.7 ins. and less, in two shallow disturbances lying respectively over the south of Sweden and over the Gulf of Bontzie. No important change later.

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 17th OCT^r 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 3 rd P. and Sea Level.	Dry.	Dirac.	Force. (0 to 12.)		Reading at 3 rd P. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirac.	Force. (0 to 12.)		Max.	Min.	Amount of Rainfall.		
SCANDINAVIA.	Haparanda ...	29.47	31	SE	2	c	29.75	+ .12	29	28	+ 9	NE	2	c	*	36	12	0.08
	Hernösand ...	29.47	42	N	2	c	29.81	+ .31	44	41	+ 9	NNW	4	b	*	48	28	0.04
	Stockholm ...	29.59	47	W	2	b	29.87	+ .26	45	41	+ 1	WNW	4	b	*	52	39	—
	Wisby ...	29.69	50	W	4	b	29.91	+ .23	49	45	— 2	NNW	6	b	*	55	41	—
	Bodö ...	29.44	34	Z	0	c	29.88	+ .53	30	28	— 2	Z	0	b	0	34	28	—
	Christiansund	29.69	48	WSW	9	r	29.94	+ .43	48	44	0	SSW	4	c	5	50	45	0.39
	Skudesnaes ...	30.03	51	WNW	4	b	30.12	+ .19	52	51	— 2	SSE	4	r	4	54	48	0.24
	Christiania Fjord (Fjorder)	29.77	55	WSW	5	b	30.07	+ .43	53	47	— 3	WNW	3	o	3	57	42	—
	Skagen (The Seaw)	29.83	53	NW	7	b	30.05	+ .28	54	50	— 1	NW	4	c	2	57	50	—
	Fanö ...	30.16	55	WNW	4	b	30.26	+ .18	55	55	— 1	WNW	3	b	*	57	54	—
BRITISH ISLANDS.	Sumburgh Head	30.00	57	WNW	4	o	29.94	+ .11	55	53	+ 4	W	5	r	6	56	47	0.44
	Stornoway ...	30.04	57	SW	4	o	30.06	+ .06	57	56	+ 6	SW	6	o	5	59	50	0.02
	Wick ...	30.10	56	NW	2	b	30.12	+ .12	58	56	+ 2	NW	2	bc	1	62	52	—
	Nairn ...	30.09	60	SW	1	c	30.12	+ .07	57	54	+ 4	SSW	4	bc	1	60	52	—
	Aberdeen ...	30.15	55	SSE	1	c	30.17	+ .09	60	56	+ 8	S	1	bur	1	60	57	0.01
	Leith ...	30.22	60	WSW	3	c	30.25	+ .12	58	55	+ 1	W	4	bc	*	64	54	—
	Shields ...	30.25	59	W	3	c	30.31	+ .13	56	54	— 1	SW	2	c	2	63	52	—
	Spurn Head ...	30.29	57	WSW	3	b	30.35	+ .09	53	51	0	SW	2	bmw	2	60	49	—
	York ...	30.31	56	W	1	b	30.37	+ .10	48	47	— 7	SW	1	b	*	63	43	—
	Loughborough	30.36	55	WSW	1	b	30.41	+ .06	39	39	— 3	Z	0	of	*	68	37	—
GERMANY & HOLLAND.	Ardrossan ...	30.25	57	W	1	o	30.28	+ .09	55	55	— 1	S	1	bur	1	57	54	0.01
	Malin Head ...	30.22	58	SW	3	o	30.24	+ .10	53	51	— 3	S	3	cm	2	58	52	—
	Mullaghmore ...	30.26	58	SW	3	o	30.27	+ .05	52	50	— 4	S	3	c	3	59	51	0.02
	Belmullet ...	30.27	57	SW	3	o	30.23	+ .00	57	53	0	WSW	2	o	*	60	54	—
	Donaghadee ...	30.29	60	SW	2	c	30.31	+ .06	51	51	— 3	WSW	2	m	0	64	49	—
	Liverpool (Bidston)	30.35	55	W	1	b	30.38	+ .05	43	43	— 10	SE	1	f	2	59	41	—
	Holyhead ...	30.35	55	SSW	1	b	30.37	+ .05	56	54	+ 1	SSW	2	bmw	2	61	53	—
	Parsonstown ...	30.32	57	Z	0	c	30.33	+ .02	45	44	— 9	Z	0	b	*	62	40	—
	Valencia ...	30.33	57	S	2	c	30.32	— .01	57	53	0	S	3	o	3	60	51	—
	Roche's Point...	30.35	57	SW	1	bc	30.34	— .00	55	53	— 1	S	1	c	2	62	48	—
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.37	55	S	1	b	30.39	+ .02	52	52	— 3	ESE	3	fwr	2	59	47	0.02
	Scilly ...	30.34	56	E	3	o	30.34	+ .01	57	57	+ 1	ESE	2	c	3	58	51	—
	Prawle Point ...	30.39	53	ESE	2	b	30.40	+ .03	55	52	— 2	ENE	1	bf	1	60	48	0.01
	Jersey (St. Aubin's)	30.38	58	NNE	1	b	30.42	+ .03	58	55	+ 11	NE	1	bmw	1	67	43	—
	Hurst Castle ...	30.40	58	WSW	2	b	30.43	+ .04	45	45	— 1	ENE	1	f	0	64	48	0.02
	Dungeness ...	30.35	58	WSW	3	bc	30.42	+ .07	38	38	— 7	N	1	f	1	64	36	—
	London ...	30.36	63	WSW	1	bc	30.42	+ .06	41	41	— 5	W	1	fwr	*	67	38	—
	Oxford ...	30.39	57	SW	1	b	30.44	+ .07	38	37	— 12	Z	0	f	*	66	35	—
	Cambridge ...	30.34	55	WSW	1	b	30.41	+ .05	42	42	— 4	SW	1	o	*	67	37	—
	Yarmouth ...	30.31	60	W	2	b	30.38	+ .09	50	49	— 2	W	1	bmw	2	64	45	—
PENIN- SULA.	Cuxhaven ...	30.19	57	WSW	4	f	30.30	+ .11	57	57	+ 1	W	2	b	*	59	55	—
	Berlin ...	30.22	59	W	4	o	30.30	+ .09	57	55	+ 1	WNW	5	o	*	61	55	—
	Wiesbaden ...	*	*	*	*	*	30.47	+ .06	41	40	— 1	Z	0	m	*	57	39	—
	Munich ...	30.46	45	Z	0	b	30.52	+ .08	41	40	0	Z	0	b	*	57	36	—
	The Helder ...	30.32	58	WSW	2	b	30.56	+ .09	50	49	— 8	WSW	1	b	1	61	50	—
	Brussels (9 a.m.)	*	*	*	*	*	30.45	+ .05	52	48	+ 6	S	1	b	*	63	44	—
	Cape Gris Nez	30.38	59	W	3	bc	30.40	+ .05	52	52	0	WSW	3	m	2	66	48	—
	Paris ...	30.40	52	NNE	1	b	30.44	+ .03	36	36	+ 2	NNE	1	b	*	65	34	—
	Brest ...	30.29	61	NNW	1	b	30.34	?	54	51	+ 4	E	2	b	2	?	50	—
	Lorient ...	30.32	61	Z	0	b	30.38	+ .07	52	49	+ 3	E	3	b	4	68	48	—
FRANCE AND BELGIUM.	Rochefort ...	30.36	64	NNW	1	b	30.33		50	50		E	3	b	?	73	45	—
	Belfort ...																	
	Lyons ...	30.38	57	N	1	b	30.46	+ .08	42	42	— 2	W	1	b	*	63	39	—
	Nice ...	30.31	60	SW	3	b	30.37	+ .09	59	53	+ 1	E	2	b	1	70	55	—
	Perpignan ...	30.32	60	Z	0	b	30.39	+ .07	57	57	+ 7	WSW	1	o	*	71	50	—
	Biarritz ...	30.26	66	ENE	3	b	30.31	+ .08	60	58	0	SSE	3	b	1	72	57	—
PENIN- SULA.	Corunna ...	*	*	*	*	*	30.06	+ .05	60	55	— 5	NE	1	b	4	79	52	—
	Lisbon ...	30.15	72	NNW	4	b	30.21	+ .04	63	58	0	NE	3	r	?	81	59	—

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, 1st October,

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

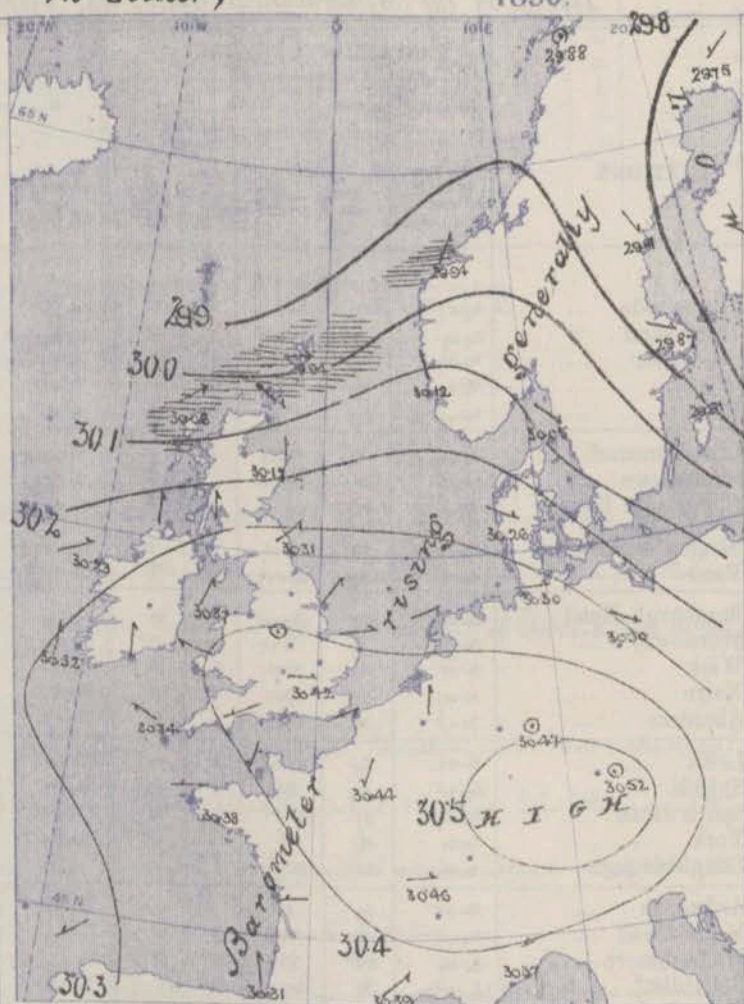
at 8.0 a.m. for the month of October.

During the 15 Years: 1871—1885.

STATIONS.

MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.708
Stornoway	29.735
Wick	29.745
Nairn	29.761
Aberdeen	29.774
Leith	29.804
Shields	29.835
York	29.872
Loughborough	29.891
Ardrossan	29.813
Donaghadee	29.832
Holyhead	29.853
Liverpool	29.864
Parsonstown	29.881
Valencia	29.873
Roches Point	29.870
Pembroke	29.868
Solly	29.894
Jersey	29.904
Hurst Castle	29.907
Dover	29.909
LONDON	29.911
Oxford	29.910
Cambridge	29.900
Yarmouth	29.886



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 October.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	49.7	41.6	46.0	44.3	4.33
Stornoway	50.5	39.5	45.3	44.1	4.94
Wick.....	51.6	40.1	46.1	44.3	2.94
Nairn.....	51.6	40.6	44.5	42.5	2.38
Aberdeen.....	52.3	41.0	45.5	43.5	2.88
Leith.....	54.7	41.5	46.5	44.7	1.94
Shields.....	53.0	42.8	47.1	45.4	2.46
York.....	54.8	41.0	45.9	44.5	2.64
Loughborough.....	55.3	41.4	46.4	45.0	2.98
Ardrossan.....	53.5	43.6	47.6	45.6	4.31
Donaghadee.....	53.2	43.3	47.7	46.5	3.35
Holyhead.....	54.5	47.0	50.2	48.2	4.53
Liverpool.....	53.6	44.6	47.8	45.8	3.62
Parsonstown.....	54.7	41.1	46.4	44.7	3.27
Valencia.....	56.6	46.5	51.3	49.1	6.09
Roche's Point.....	55.8	45.9	50.2	48.4	4.17
Pembroke.....	54.8	48.0	51.2	49.1	4.13
Silly.....	56.6	50.3	53.8	51.7	3.84
Jersey.....	58.1	49.2	53.6	51.1	4.34
Hurst Castle.....	57.1	46.0	51.4	49.6	3.24
Dover.....	55.8	47.0	50.7	48.7	3.28
LONDON.....	56.6	43.2	48.0	46.4	2.74
Oxford.....	55.3	42.5	46.7	45.3	2.72
Cambridge.....	56.4	41.2	46.4	45.4	2.36
Yarmouth.....	54.3	44.8	49.2	47.9	2.97

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 in. to 30.5 in. and more over Ireland, England, France, and Germany.
 Lowest, 29.8 in. and less, over Ireland, and the Gulf of Bothnia; 30.0 in. and less, off our extreme northern coast; 30.2 in. and less, off the southeast of the Spanish Peninsula.
 Gradients moderate in the north and northeast, slight elsewhere.
 Barometer rising decidedly over Scandinavia, falling very little elsewhere.

TEMPERATURE

Highest, 63° at Limerick, 60° at Yarmouth, Brixton, and Aberdeen, 59° at Nice, above 50° at most of our own coast stations.
 Lowest, (1.) 79° at Haparanda, 30° at Bodo; (2.) 38° at Oxford and Dungeness, 30° at Loughborough, 41° in London; (3.) 36° at Paris, 41° at Wiesbaden and Munich, 42° at Lyons.
 The minima recorded last night were as low as 35° at Oxford, 37° at Cambridge and Loughborough; in London the shade minimum was 38°, that on the ground 28°.

WIND

Light to moderate except at Stormont and Wick, where it was strong. It is E. over the Channel, and Bay of Biscay.
 S. in Ireland, S. to W. in Scotland, NW. over Sweden, Denmark, and North Germany.

WEATHER

Very fine except in the extreme north and west, but fog is reported in many places, and very heavy dew was prevalent inland. Rain is falling at Limerick and Kildare, and considerable quantities have fallen in the north of Norway.

SEA

Still rough at the more northern stations, slight to very smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 13th OCT^r 1890.

DISTRICTS.

FORECASTS.

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

NONE ISSUED

DISTRICTS.

FORECASTS.

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

NONE ISSUED

WARNINGS

NONE ISSUED

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND		WEA.	SEA		BAR.	THER.		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.94	58	51	W	4	r	4	Holyhead ...	30.34	60	56	SW	2	b	2
Sumburgh Head ...	29.92	58	49	W	4	c	5	Valencia ...	30.33	59	56	SSE	3	cm	3
Stornoway ...	30.04	59	57	SW	3	o	3	Scilly ...	30.36	55	55	SE	3	o	3
Aberdeen ...	30.11	56	55	NE	1	odp	2	Jersey ...	30.38	65	58	SE	1	b	2
Shields ...	30.22	62	58	W	3	c	2	Dungeness ...	30.37	63	59	WSW	3	b	4
Ardrossan ...	30.22	57	56	W	1	om	1	London ...	30.35	60	59	WSW	2	b	*
Malin Head ...	30.19	58	57	SW	3	o	2	Yarmouth ...	30.29	64	56	WNW	2	b	2
Mullaghmore ...	30.26	58	55	SW	4	omr	3	Rochefort ...	30.29	69	62	NNW	1	b	?
Belmullet ...	30.26	58	57	SW	3	om	*								

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

Weather fine over nearly the whole of Western and Southern Europe, but foggy in the central and Southern parts of England, and dull at most of the Irish stations, with rain in the north. Dull over Scandinavia, Russia, and Central Europe, with rain in many places. No important change later, but fog clearing over England, and snow setting in at Stockholm.

Temperature highest, 71° at Malta, 68° at Algiers, and 68° at San Fernando and Malta; above 55° over Ireland, the north of England and the south of Scotland. Lowest, 19° at Ulleaborg, 20° at Kopenhagen, 26° at Kuopio, and 31° at Moscow; as low as 34° at Paris and 38° at LiMons. Rising during day to between 65° and 68° over the central and southern parts of England, and to 70° or more over France, southern Europe, and Algeria; the highest readings of all being 81° at Lisbon, San Fernando, and Cadix and 79° at La Calle.

Wind light or moderate from the SWnd in the west and northwest of our Islands, from the Wnd over the North Sea, Germany, and the East coasts of Great Britain, and from the NWnd in Austria and Italy. Light from the End or NEnd in Spain, France, and the south of England, as well as in the north of Scandinavia. Sst at most of the Russian stations; strong in force over the Gulf of Finland. Subsequently increasing to a gale from the Wnd in the west of Norway.

Barometer highest, 30.4 ins. and upwards over Western Germany and Central France; 30.2 ins. and upwards in a large anticyclone covering the greater part of Western, Southern, and Central Europe, as well as in another system lying over Central Russia. Lowest 29.4 ins. and less, in a depression lying off the west of Norway; 29.5 ins. and less, in another disturbance lying over the Kola Peninsula. Small secondary depression forming later over the Gulf of Finland, but position of anticyclone remaining unchanged.

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, 13th October,

1890.

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

Issued by the Meteorological Office, 55, Pall Mall Street, London. H. 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.	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 ...	30.04	28	Z	0	0	30.02	+17	33	32	+4	Z	0	0	*	36	16	-
	Hernösand ...	30.10	34	Z	0	6	30.00	+19	43	42	-1	E	2	0	*	52	34	-
	Stockholm ...	30.13	42	Z	0	0	30.12	+25	44	43	-1	S	2	0	*	55	39	-
	Wisby ...	30.08	46	N	2	6	30.13	+22	46	44	-3	S	4	6	*	52	41	-
	Bodö ...	29.86	34	E	4	0	29.70	-18	38	34	+8	ESE	4	7	2	?	28	0.16
	Christiansund	29.86	53	SW	4	0	29.90	-04	54	52	+6	NW	6	0	4	54	48	0.91
	Skudesnaes ...	30.17	54	Z	0	7	30.18	+06	54	53	+2	SSE	2	0	4	55	52	0.71
	Christiania Fjord (Fæder)	30.06	52	Z	0	0	30.09	+02	53	51	0	NW	2	6	2	?	52	0.08
	Skagen (The Seaw)	30.11	54	NW	4	6	30.13	+08	52	51	-2	NW	3	0	4	55	50	0.12
	Fanö ...	30.31	56	N	4	0	30.30	+04	54	53	-1	N	2	0	*	57	54	-
BRITISH ISLANDS.	Sumburgh Head	30.01	54	N	5	7	30.04	+10	55	53	0	N	4	0	5	55	52	0.30
	Stornoway ...	30.06	55	SW	6	7	30.06	00	55	55	-2	SW	7	7	6	57	53	0.06
	Wick ...	30.12	54	NW	1	0	30.12	00	52	50	-6	NW	1	6	1	63	50	0.05
	Nairn ...	30.13	56	SW	2	6	30.14	+02	53	50	-4	NW	2	6	1	61	51	-
	Aberdeen ...	30.16	55	SW	2	6	30.19	+02	42	41	-18	S	1	cm w	1	69	38	-
	Leith ...	30.23	57	N	2	6	30.24	-01	56	52	-2	N	2	cm	*	66	49	-
	Shields ...	30.27	61	N	1	6	30.28	-03	45	43	-11	SW	1	6	2	67	41	-
	Spurn Head ...	30.32	55	SSW	2	6	30.33	-02	51	47	-2	NW	2	6	2	66	47	-
	York ...	30.33	55	N	1	6	30.33	-04	42	41	-6	S	1	6	*	65	38	-
	Loughborough	30.37	51	ESE	1	6	30.40	-01	32	31	-7	Z	0	6	*	68	31	-
GERMANY & HOLLAND.	Arrossan ...	30.27	55	SW	3	0	30.24	-04	55	53	0	SW	2	0	1	56	53	-
	Malin Head ...	30.22	55	S	2	0	30.19	-05	53	51	0	SSE	3	0	2	57	51	-
	Mullaghmore ...	30.25	55	S	3	0	30.22	-05	53	51	+1	S	4	0	3	60	51	-
	Belmullet ...	30.23	54	NW	4	0	30.20	-03	57	55	0	SW	2	0	*	60	56	-
	Donaghadee ...	30.28	53	SW	2	6	30.29	-02	51	50	0	SW	2	0	0	62	50	-
	Liverpool (Bidston)	30.33	60	SE	1	6	30.35	-03	48	47	+5	SE	2	0	2	62	43	-
	Holyhead ...	30.33	56	SW	3	6	30.33	-04	55	52	-1	N	1	0	2	60	54	-
	Parsonstown ...	30.28	56	Z	0	0	30.28	-05	52	51	+7	Z	0	0	*	63	44	-
	Valencia ...	30.30	57	S	3	0	30.28	-04	60	57	+3	S	4	0	4	60	56	-
	Roche's Point...	30.31	57	SW	2	0	30.30	-04	58	55	+3	SW	2	0	3	62	54	-
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.36	56	SE	2	6	30.37	-02	56	55	+4	NW	2	0	3	58	52	-
	Scilly ...	30.35	59	SSE	1	6	30.35	+01	53	53	-4	SE	2	0	2	63	50	0.01
	Prawle Point ...	30.39	54	E	1	6	30.37	-03	53	52	-2	NE	1	0	1	64	47	0.01
	Jersey (St. Aubin's)	30.38	62	ESE	1	6	30.38	-04	47	46	-11	E	1	0	1	70	44	-
	Hurst Castle ...	30.40	53	Z	0	6	30.40	-03	47	47	+2	NNE	1	0	0	58	45	0.02
	Dungeness ...	30.40	59	Z	1	6	30.44	-08	38	38	0	Z	0	0	0	65	35	-
	London ...	30.40	61	SW	1	6	30.40	-02	35	35	-6	SW	1	0	*	67	32	-
	Oxford ...	30.41	45	Z	0	6	30.41	-03	33	33	-5	Z	0	0	*	67	33	-
	Cambridge ...	30.39	56	Z	0	6	30.39	-02	37	37	-5	SW	1	0	*	72	33	-
	Yarmouth ...	30.36	60	Z	0	6	30.36	-02	50	49	0	N	1	0	2	65	44	-
PENINSULA.	Cuxhaven ...	30.38	56	N	2	0	30.38	+08	54	53	-3	NW	2	0	*	61	53	-
	Berlin ...	30.39	57	NW	3	6	30.40	+10	53	52	-4	N	2	0	*	63	52	-
	Wiesbaden ...	*	*	*	*	*	30.47	00	42	41	+1	Z	0	0	*	59	39	-
	Munich ...	30.50	49	Z	0	6	30.51	-01	41	40	0	Z	0	0	*	61	37	-
	The Helder ...	30.39	56	SW	1	6	30.38	+02	47	47	-3	SW	1	0	1	61	46	-
	Brussels (9 a.m.)	*	*	*	*	*	30.41	+04	55	52	+3	SE	1	0	*	70	47	-
	Cape Gris Nez	30.41	57	Z	0	6	30.39	-01	55	50	+3	NW	1	0	0	63	50	-
	Paris ...	30.41	56	N	7	6	30.40	-04	40	40	+14	NNE	1	0	*	69	34	-
	Brest ...	30.34	61	E	1	6	?	?	53	49	-1	SE	1	0	*	75	46	-
	Lorient ...	30.35	64	Z	0	6	30.33	-05	53	50	+1	E	2	0	4	72	50	-
FRANCE AND BELGIUM.	Rochefort ...	30.30	65	NW	2	6	30.30	-03	54	53	+4	E	3	0	*	75	48	-
	Belfort ...	30.33	60	E	1	6	30.34	-01	53	50	-1	E	1	0	*	65	40	-
	Lyons ...	30.40	60	NNE	1	6	30.45	-01	41	41	-1	E	1	0	*	66	40	-
	Nice ...	30.35	60	Z	0	6	30.37	00	60	52	+1	E	2	0	0	72	57	-
	Perpignan ...	30.36	59	SE	1	6	30.36	-03	56	56	-1	SW	1	0	*	71	48	-
	Biarritz ...	30.36	59	ESE	3	6	30.28	-03	66	56	+6	S	3	0	2	75	57	-
PENINSULA.	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lisbon ...	30.19	70	NE	4	6	30.24	+03	62	60	-1	NE	2	0	6	79	?	-

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, 13th October,

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

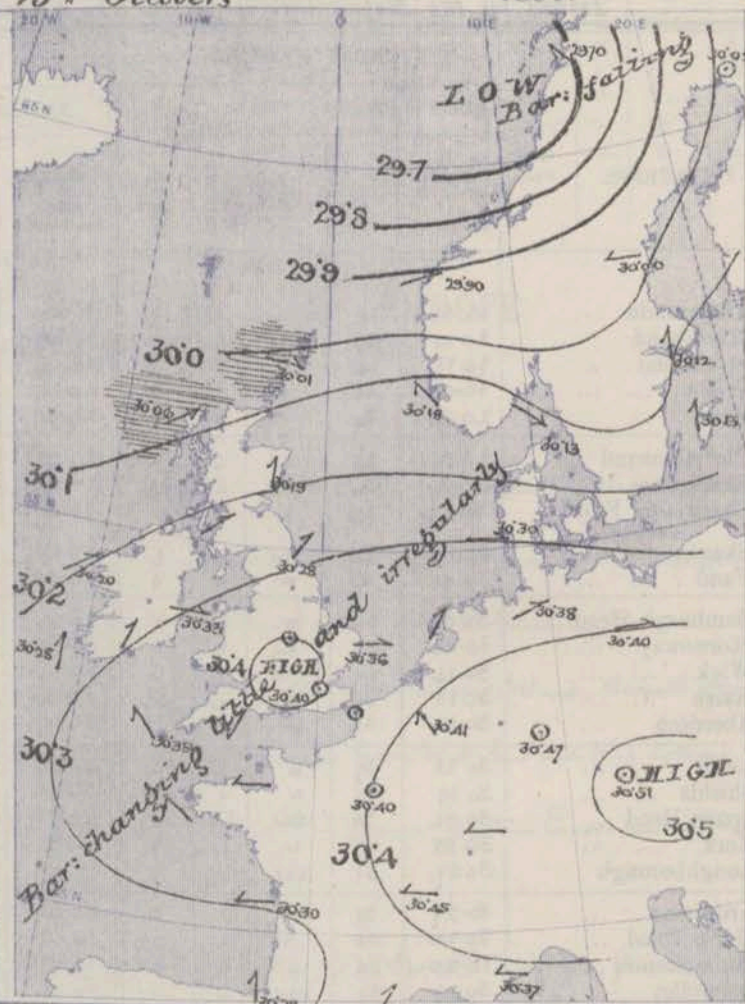
at 8.0 a.m. for the month of October.

During the 15 Years: 1871—1885.

STATIONS.

MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.708
Stornoway	29.735
Wick	29.745
Nairn	29.761
Aberdeen	29.774
Leith	29.804
Shields	29.835
York	29.872
Loughborough	29.891
Ardrossan	29.813
Donaghadee	29.832
Holyhead	29.853
Liverpool	29.864
Parsonstown	29.881
Valencia	29.873
Roche's Point	29.870
Pembroke	29.888
Scilly	29.894
Jersey	29.904
Hurst Castle	29.907
Dover	29.909
LONDON	29.911
Oxford	29.910
Cambridge	29.900
Yarmouth	29.886



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.

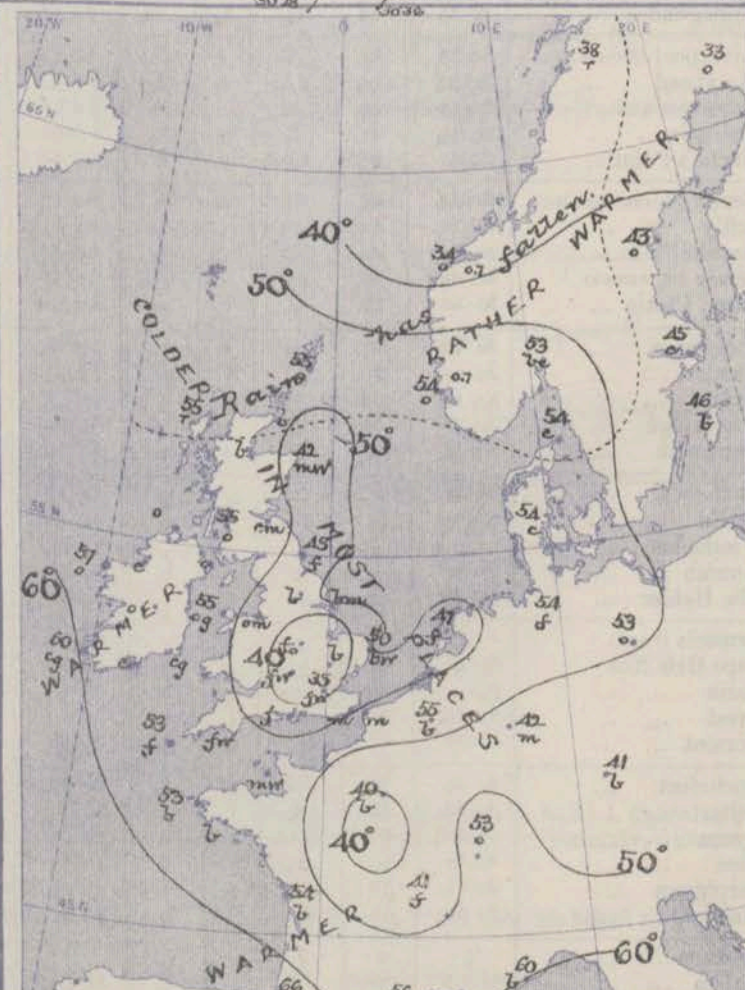
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of October.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	49.7	41.6	46.0	44.3	4.33
Stornoway	50.5	39.5	45.3	44.1	4.94
Wick.....	51.6	40.1	46.1	44.3	2.94
Nairn.....	51.6	40.6	44.5	42.5	2.38
Aberdeen.....	52.3	41.0	45.5	43.5	2.88
Leith.....	54.7	41.5	46.5	44.7	1.94
Shields.....	53.0	42.8	47.1	45.4	2.46
York.....	54.8	41.0	45.9	44.5	2.64
Loughborough.....	55.3	41.4	46.4	45.0	2.98
Ardrossan.....	53.5	43.6	47.6	45.6	4.31
Donaghadee.....	53.2	43.3	47.7	46.5	3.35
Holyhead.....	54.5	47.0	50.2	48.2	4.53
Liverpool.....	53.6	44.6	47.8	45.8	3.62
Parsonstown.....	54.7	41.1	45.4	44.7	3.27
Valencia.....	56.6	46.5	51.3	49.1	6.09
Roche's Point.....	55.8	45.9	50.2	48.4	4.17
Pembroke.....	54.8	48.0	51.2	49.1	4.13
Scilly.....	56.6	50.3	53.8	51.7	3.84
Jersey.....	58.1	49.2	53.6	51.1	4.34
Hurst Castle.....	57.1	46.0	51.4	49.6	3.24
Dover.....	55.8	47.0	50.7	48.7	3.28
LONDON.....	56.6	43.2	48.0	46.4	2.74
Oxford.....	55.3	42.5	46.7	45.3	2.72
Cambridge.....	56.4	41.2	46.4	45.4	2.36
Yarmouth.....	54.3	44.8	49.2	47.9	2.97

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: to 30.5 ins: in an anticyclone over Germany, France, and England. Lowest, 29.8 ins: and less, over the north of Norway, and 30.1 ins: and less, over the north of Scotland. Gradients slight. Barometer changing very little and irregularly.
TEMPERATURE	Highest, 66° at Biarritz, 60° at Nice and Valencia Island, and 55° both in the Hebrides and Shetlands. Lowest, (1.) 33° at Opatowitz, 38° at Bodo, 43° at Hunsland; (2.) 32° at Loughborough, 33° at Oxford, 35° in London; (3.) 40° at Paris, 41° at Munich and Lyons, 42° at Wiesbaden. Its distribution this morning is very irregular, owing to local fogs.
WIND	Strong from S.W. at Stornoway and Christiansund; light to moderate S.W. in Ireland, E. over the Bay of Biscay. Variable airs and calms prevail over the central parts of England and France.
WEATHER	Rainy at Christiansund and Stornoway, dull over the extreme north of Scotland, and over Ireland generally. Fine generally elsewhere, but with fog in many places. Heavy dew is reported from the English stations, and a considerable quantity of rain in the north of Scotland and over Scandinavia.
SEA	Still rough in the far north, smooth or very smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

No important change is indicated.

FORECASTS

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

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	S.W. winds, moderate or light; some rain.	6 SCOTLAND WEST	Same as No 0
1 SCOTLAND EAST	{ S.W. breezes, light; fine, hazy or foggy at times.	7 ENGLAND N.W.	{ Varying S.W. winds, light; fair, foggy at times.
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST	{ Varying airs and calms; much fog, frosty at night.	9 IRELAND NORTH	{ S.W. breezes, moderate or light; fair, gloomy or hazy at times.
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH			
		WARNINGS	NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA	SEA		BAR:	THER:		WIND		WEA	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	30.13	55	54	W	2	rf	3		Holyhead ...	30.36	60	56	W	3	6
Sumburgh Head ...									Valencia ...						
Stornoway ...	30.04	56	55	W	6	0	6		Scilly ...						
Aberdeen ...									Jersey ...	30.41	66	59	W	0	6
Shields ...									Dungeness ...	30.40	65	60	W	1	m
Ardrossan ...									London ...						*
Malin Head ...	30.22	56	53	S	3	c	2		Yarmouth ...						
Mullaghmore ...									Rochefort ...	30.33	74	66	W	0	6
Belmullet ...	30.23	59	55	W	3	bc	*								

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

Weather fine over the greater part of western, central and southern Europe, but dull in the extreme west and north of our Islands and the south of Norway, with rain at Sumburgh Head and Skudesnaes; fog and heavy dew reported over England. Dull over Russia and eastern Germany with rain at Riga and Kiev and snow at Uleaborg and St. Petersburg. Fog clearing over England during day but coming on again towards night.

Temperature highest 71° at Oporto and La Galle, 70° at San Fernando, and 69° at Barcelona, Palermo and Algiers; ranging between 55° and 60° in Scotland. Lowest 29° at Haparanda, 30° at Bodö, and 32° at Archangel and Uleaborg; below 40° at some of the central stations in England and France. Daily maxima a little above 70° in many parts of England and France, and as high as 69° even at Aberdeen, but frost experienced over England at night.

Wind S.W. or S.W. over the greater part of our Islands and the west of Norway, fresh or strong in force in the Shetlands and Hebrides - moderate to strong from the NW over Sweden, Denmark, Germany, the Baltic and western Russia, light S. over the central and southern parts of the last mentioned country. Light from the E. or NE over France, Spain and the Bristol and English Channels; variable in Algeria and the south of Italy. No important change occurring during day.

Barometer highest 30.52 ins. at Munich, high 30.3 ins. to 30.5 ins. in a large anticyclone covering nearly the whole of Ireland, England, the Netherlands, France, Germany, Spain, Italy and the central and eastern parts of the Mediterranean. Lowest 29.6 ins. and less in an elongated depression lying over Finland; low 29.9 ins. and less in another disturbance lying some considerable distance to the northward of our Islands. Latter system subsequently travelling eastwards over the west of Norway; no important change taking place in position of anticyclone.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 5TH TO 11TH OCT. 1890

- The weather experienced over the United Kingdom during this week may be divided into three distinct periods.
1. One of two days in which a well-marked W. and S.W. current of wind prevailed, accompanied by high temperatures generally, fine bright weather over England and the east of Ireland, but showers of rain in many parts of Ireland and Scotland. The daily maxima during this time ranged from 60° to 69° over the inland parts of Great Britain, and the nights were mild.
 2. A spell of one day in which a small depression advanced over Ireland from the westward, and uniting with another shallow system over the North Sea, brought warm rains, much cloud and mild close air to all parts of Ireland & England.
 3. An anticyclonic period, lasting during the remaining four days of the week, in which a well formed anticyclone advanced over the Kingdom from the north-westward and northward. On Wednesday morning its central area lay over Scotland and the north of England; on Thursday it had reached France and the southern parts of our Islands, but its northern side still spread over the United Kingdom. The period was marked by very fine dry weather, sharp ground frosts at night in many places, accompanied by local fogs, but by very bright days on which the temperature rose to between 60° and 69° over England, and on one occasion touched 70° at Aberdeen. The wind was at first H. and NE but soon drew to the S.W. again.

At the close of the week there was no indication of any important change.

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 14th October.* 1890.
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

PUBLISHED BY THE METEOROLOGICAL OFFICE, 25, ABINGDON STREET, LONDON. H. 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. Reading at 32° F. and Sea Level.		SHADE TEMP. Dry.		SHADE TEMP. Wet.		WIND.		Weather.	Sea. (0 to 5.)	SHADE TEMP.		Amount of Rainfall.
			Dirce.	Force. (0 to 12.)								Dirce.	Force. (0 to 12.)			Max.	Min.	
SCANDINAVIA.																		
Haparanda ...	29.84	39	SW	2	P	29.83	-19	37	36	+4	2	0	f	*	39	25	0.08	
Hernösand ...	29.96	44	SE	2	P	29.94	-16	44	42	+1	2	0	f	*	50	34	0.24	
Stockholm ...	30.06	50	SW	2	P	30.00	-12	50	49	+6	W	2	0	*	53	39	—	
Wisby ...	30.11	52	SW	2	0	30.04	-09	49	49	+3	SW	2	0	*	52	39	—	
Bodö ...	29.78	44	SE	2	P	29.86	+16	45	43	+7	S	2	P	1	?	37	1.46	
Christiansund	29.99	53	SW	6	P	29.83	-17	52	51	-2	NNE	2	c	4	54	52	0.32	
Skudesnaes ...	30.13	52	S	2	0	29.98	-20	54	57	0	SE	4	0	4	56	52	—	
Christiania Fjord (Færder)	30.08	53	SW	2	P	30.01	-10	51	51	-2	SE	2	f	2	55	48	—	
Skagen (The Scaw)	30.10	51	WNW	2	0	30.05	-10	52	49	0	WNW	2	0	2	52	50	—	
Fanö ...	30.23	54	W	4	P	30.17	-13	54	54	0	W	2	0	*	59	52	—	
Sumburgh Head	30.04	53	WNW	2	P	29.77	-27	53	53	-2	WNW	1	0	4	56	51	0.04	
Stornoway ...	29.97	55	SW	6	P	29.82	-24	49	49	-6	W	4	0	4	56	48	0.12	
Wick ...	30.06	54	SW	1	0	29.83	-29	54	53	+2	SW	2	0	1	62	50	0.05	
Nairn ...	30.05	55	SW	2	P	29.85	-29	55	52	+2	WNW	1	c	1	62	52	0.01	
Aberdeen ...	30.10	48	WNW	1	P	29.91	-28	54	52	+12	NW	4	cq	2	59	42	—	
Leith ...	30.18	55	WNW	1	c	29.97	-27	57	53	+1	WNW	2	c	*	57	51	—	
Shields ...	30.23	56	W	2	0	30.06	-22	56	53	+11	S	4	c	2	63	42	—	
Spurn Head ...	30.30	56	WNW	2	P	30.17	-16	52	51	+1	SW	3	P	3	62	48	—	
York ...	30.30	56	W	1	0	30.17	-16	40	40	-2	S	1	f	*	60	39	—	
Loughborough	30.33	51	WNW	1	P	30.21	-19	40	40	+8	W	0	f	*	64	32	—	
Ardrossan ...	30.18	56	SW	3	0	29.98	-26	56	53	+1	SW	5	0	4	56	53	—	
Malin Head ...	30.12	56	S	3	0	29.95	-24	53	52	0	W	2	0	1	58	52	0.16	
Mullaghmore ...	30.15	59	S	5	0	30.03	-19	53	52	0	W	5	0	4	60	53	0.13	
Belmullet ...	30.14	59	SW	3	0	30.05	-15	53	50	-4	W	2	P	*	60	51	0.25	
Donaghadee ...	30.22	56	SW	2	c	30.04	-25	54	53	+3	SW	2	P	0	58	50	0.02	
Liverpool (Bidston)	30.30	54	SW	2	c	30.16	-19	47	46	-1	SE	1	P	2	58	44	—	
Holyhead ...	30.29	57	SW	3	c	30.14	-19	57	54	+2	SW	4	cq	4	59	55	—	
Parsonstown ...	30.25	58	2	0	0	30.10	-18	55	54	+3	2	0	0	*	61	51	0.12	
Valencia ...	30.25	59	SW	5	c	30.16	-18	57	56	-3	W	2	0	1	61	56	0.16	
Roche's Point...	30.31	58	SW	2	P	30.17	-18	57	53	-1	WNW	3	c	3	62	55	—	
Pembroke (St. Ann's Hd.)	30.34	53	S	1	P	30.20	-17	56	54	0	SW	2	P	3	58	54	—	
Scilly ...	30.30	53	ENE	1	0	30.21	-14	52	52	-1	ENE	1	0	5	59	49	—	
Prawle Point ...	30.33	52	SE	1	P	30.21	-16	57	53	+4	W	1	P	1	65	48	—	
Jersey (St. Aubin's)	30.30	64	E	1	P	30.21	-17	55	53	+8	2	0	f	0	71	46	—	
Hurst Castle ...	30.33	54	2	0	P	30.21	-19	48	48	+1	ENE	2	P	1	60	41	0.02	
Dungeness ...	30.35	59	2	0	m	30.19	-15	56	56	+18	NNE	2	f	1	67	37	—	
London ...	30.33	49	SE	1	P	30.22	-18	35	35	0	2	0	f	*	67	33	—	
Oxford ...	30.34	46	SW	1	P	30.23	-18	34	34	+1	2	0	f	*	69	33	—	
Cambridge ...	30.32	53	SW	1	P	30.21	-18	39	38	+2	SW	1	P	*	71	33	—	
Yarmouth ...	30.31	58	SW	1	P	30.21	-15	45	45	-5	2	0	f	2	63	41	—	
Cuxhaven ...	30.32	54	SW	2	c	30.20	-18	45	45	-9	SW	2	f	*	57	45	—	
Berlin ...	30.35	53	2	0	P	30.26	-14	47	46	-6	W	1	P	*	59	43	—	
Wiesbaden ...	*	*	*	*	*	30.31	-16	42	41	0	2	0	P	*	61	39	—	
Munich ...	30.44	49	NNE	2	P	30.38	-13	41	40	0	E	1	m	*	63	37	—	
The Helder ...	30.32	49	SW	1	P	30.23	-15	44	43	-3	SW	1	P	1	61	43	—	
Brussels (9 a.m.)	30.32	58	NNE	3	m	30.23	-18	54	51	-1	SE	2	P	*	75	48	—	
Cape Gris Nez	30.32	57	ENE	1	P	30.19	-20	53	53	0	SE	2	P	0	76	52	—	
Paris ...	30.32	57	ENE	1	P	30.25	-15	43	43	+3	2	0	P	*	72	40	—	
Brest ...	30.24	67	2	0	P	30.19	-15	54	53	+1	E	1	P	4	77	49	—	
Lorient ...	30.27	61	2	0	P	30.23	-10	53	52	0	E	1	P	5	72	52	—	
Rocheport ...	30.26	68	2	0	P	30.20	-10	56	55	+2	SE	3	0	?	81	50	—	
Belfort ...	30.34	60	WNW	1	P	30.32	-13	46	45	+5	SW	1	P	*	68	?	—	
Lyons ...	30.33	64	E	2	P	30.29	-10	61	51	+1	E	2	P	1	73	59	—	
Nice ...	30.30	61	NNE	2	P	30.28	-10	59	59	+3	SW	1	0	*	69	51	—	
Perpignan ...	30.22	68	SE	2	c	30.19	-10	64	61	-2	S	2	0	2	81	63	—	
Corunna ...	30.24	64	N	2	P	30.27	+03	60	59	-2	NNE	4	P	6	77	59	0.12	
Lisbon ...	30.24	64	N	2	P	30.27	+03	60	59	-2	NNE	4	P	6	77	59	0.12	

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

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

WEATHER CHARTS

for 8 a.m. on

Tuesday, 14th October,

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, it is shown thus:

■ = Rough. ■ = High.

MEAN HEIGHT OF THE BAROMETER

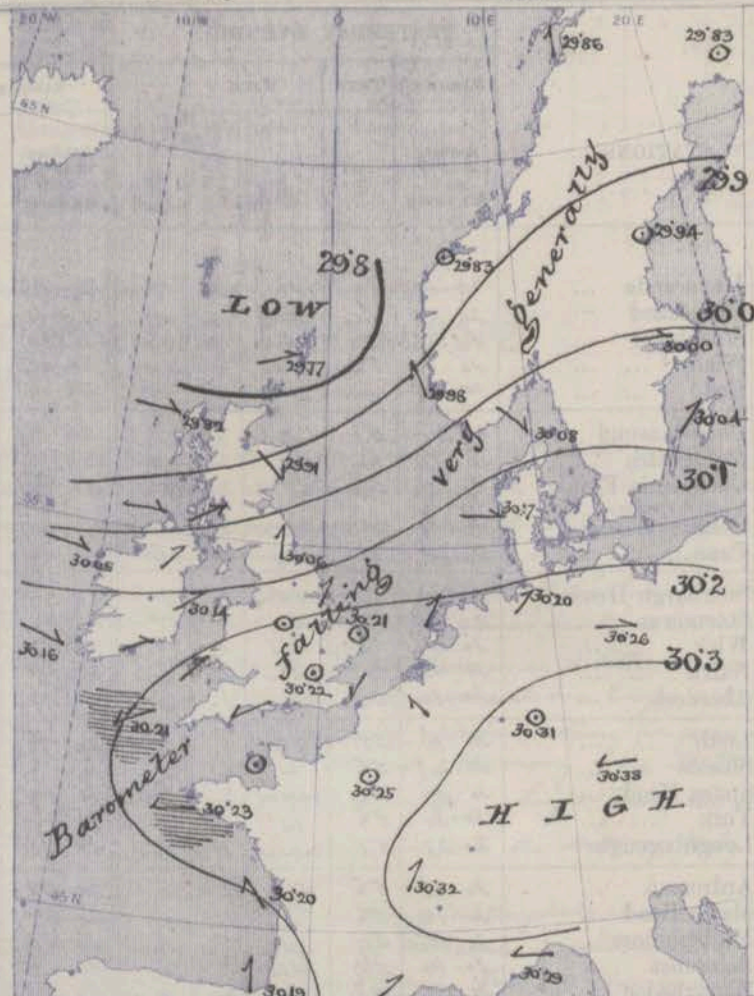
at 8.0 a.m. for the month of October.

During the 15 Years: 1871—1885.

STATIONS.

MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.708
Stornoway	29.735
Wick	29.745
Nairn	29.761
Aberdeen	29.774
Leith	29.804
Shields	29.835
York	29.872
Loughborough	29.891
Ardrossan	29.813
Donaghadee	29.832
Holyhead	29.853
Liverpool	29.864
Parsonstown	29.881
Valencia	29.873
Rocha's Point	29.870
Pembroke	29.868
Scilly	29.894
Jersey	29.904
Hurst Castle	29.907
Dover	29.969
LONDON	29.911
Oxford	29.910
Cambridge	29.900
Yarmouth	29.886



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 October.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	49.7	41.6	46.0	44.3	4.33
Stornoway	50.5	39.5	45.3	44.1	4.94
Wick	51.6	40.1	46.1	44.3	2.94
Nairn	51.6	40.6	44.5	42.5	2.38
Aberdeen	52.3	41.0	45.5	43.5	2.88
Leith	54.7	41.5	46.5	44.7	1.94
Shields	53.0	42.8	47.1	45.4	2.46
York	54.8	41.0	45.9	44.5	2.64
Loughborough	55.3	41.4	46.4	45.0	2.98
Ardrossan	53.5	43.5	47.6	45.6	4.31
Donaghadee	53.2	43.3	47.7	46.5	3.35
Holyhead	54.5	47.0	50.2	48.2	4.53
Liverpool	53.6	44.6	47.8	45.8	3.62
Parsonstown	54.7	41.1	45.4	44.7	3.27
Valencia	56.6	46.5	51.3	49.1	6.09
Rocha's Point	55.8	45.9	50.2	48.4	4.17
Pembroke	54.8	48.0	51.2	49.1	4.13
Scilly	56.6	50.3	53.8	51.7	3.84
Jersey	58.1	49.2	53.0	51.1	4.34
Hurst Castle	57.1	46.0	51.4	49.6	3.24
Dover	55.8	47.0	50.7	48.7	3.28
LONDON	56.6	43.2	48.0	46.4	2.74
Oxford	55.3	42.5	46.7	45.3	2.72
Cambridge	56.4	41.2	48.4	45.4	2.86
Yarmouth	54.3	44.8	49.2	47.9	2.97

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. to 30.3 ins. and more, in an anticyclone extending from central and southern Europe over the south and south-east of England. Lowest, 29.8 ins. and less, in a depression lying to the northward of our Islands. Gradients slight. Barometer falling generally — most in the north of our Islands.
TEMPERATURE	Highest, 64° at Biarritz, 61° at Nice, 60° at Lyons, 59° at Perpignan, and 57° at Leith, Holyhead, Klenzie Island, Hook Point, and Powers Point. Lowest, 34° at Oxford, 35° in London, 37° at Harpenden, 39° at Cambridge, 40° at York and Loughborough, and 41° at Munich. During yesterday the thermometer rose to 65° at Oxford, and 71° at Jersey and Cambridge.
WIND	SW ^{ly} or W ^{ly} over the greater part of the United Kingdom, as well as over the Netherlands, Denmark, and the south of Sweden; light or moderate in force generally, but fresh on our NW coasts. Light from the E ^{ly} over the Channel and Bay of Biscay, but calm or variable over the central parts of England, as well as in Germany and Central France.
WEATHER	Foggy or misty over the greater part of England, with heavy dew in many places. Cloudy or overcast in nearly all other parts of Western Europe, with showers in the north of Ireland, but fine over Germany, the Netherlands, and the south of France. Firm fell yesterday in the extreme west and north of our Islands.
SEA	Rather rough at the mouth of the Channel, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depressions which have recently been travelling from the northern parts of the Atlantic to Scandinavia are now beginning to take a rather more southerly course, and unsettled weather seems likely to spread gradually over our Islands. The southeastern parts of the Kingdom are however not likely to be affected just at present.

FORECASTS

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

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	SW ^{ly} and W ^{ly} winds, moderate to strong; drizzle, some rain.	6 SCOTLAND WEST	SW ^{ly} and W ^{ly} winds fresh or strong; drizzle, some rain.
1 SCOTLAND EAST	SW ^{ly} winds, moderate; fair generally.	7 ENGLAND N.W.	Same as No 1.
2 ENGLAND N.E.	S ^{ly} and SW ^{ly} winds, moderate; fine generally, but local fogs.	8 ENGLAND S.W.	Light breezes, chiefly S ^{ly} ; fair generally but local fogs.
3 ENGLAND EAST	Variable breezes, finally SW ^{ly} ; foggy, very cold at night.	9 IRELAND NORTH	Same as No 6.
4 MIDLAND COUNTIES		10 IRELAND SOUTH	W ^{ly} to SW ^{ly} winds, freshening; cloudy, some rain.
5 ENGLAND SOUTH		WARNINGS	The SOUTH CONE has hoisted last evening in part of district 0.

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

YESTERDAY'S 2 P.M. REPORTS.

	THER:							THER:						
	BAR:	D.	W.	D.	F.	WEA.	SEA	BAR:	D.	W.	D.	F.	WEA.	SEA
Skudesnaes ...	30.17	55	52	52	2	0	4	Holyhead ...	30.32	57	54	54	3	2
Sumburgh Head ...	30.55	52	52	52	4	0	5	Valencia ...	30.56	61	56	5	5	5
Stornoway ...	30.55	56	56	56	5	0	5	Scilly ...	30.32	59	57	5	2	4
Aberdeen ...	30.14	58	52	52	1	0	1	Jersey ...	30.34	69	59	5	1	1
Shields ...	30.24	60	56	56	2	0	2	Dungeness ...	30.35	64	61	5	0	0
Ardrossan ...	30.23	55	50	50	3	0	2	London ...	30.34	64	55	5	1	0
Malin Head ...	30.16	58	51	51	3	0	1	Yarmouth ...	30.34	63	54	5	1	2
Mullaghmore ...	30.19	60	55	55	4	0	3	Rochefort ...	30.28	70	66	5	1	0
Belmullet ...	30.17	60	56	56	3	0	*							

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

Weather fine over nearly the whole of Western and Southern Europe, but foggy at many of the English stations, and dull in the extreme west and north of our Islands, with rain in the Hebrides. Dull also in Scandinavia, Russia and Germany, with rain at Rodo. Fog clearing somewhat over England during day, but coming on again towards night. Rain falling in Ireland, the west and north of Scotland, and the northern parts of Scandinavia.

Temperature highest 70° at Malta, 69° at Bilbao, San Fernando, and Oron, and 68° at Brindisi, Palermo, and Algiers, above 60° at most of the Mediterranean stations, and just touching that point in the south of Ireland. Lowest (1) 27° at Archangel, 30° at Kuopio and Helsinki, and 33° at Haparanda and Uleaborg; (2) 32° at Loughborough, 33° at Oxford, and 35° in London. Rapid rise taking place over England during day - thermometer reaching 63° at Oxford, and 71° at Cambridge and Jersey - but frost occurring again at night.

Wind chiefly anticyclonic, E² over the greater part of France, Spain, and the English Channel, S¹ in Ireland, SW¹ or W¹ over the north and east of Great Britain (strong in force at Stornoway) and also over the Netherlands and Germany, NW¹ in Austria and the south of Russia, very variable in Italy; chiefly S¹ in Algeria as well as in the south of Sweden. Subsequently, increasing to a gale from the SW² at Christianund; no important change elsewhere.

Barometer highest 30.5 ins: and upwards over South Germany, high 30.2 ins: and upwards, in a large anticyclone covering nearly the whole of western, central, and southern Europe. Lowest, 29.7 ins: and less, in a depression lying over the northwest of Norway, and also in another system over the south of Russia. New disturbance beginning to advance later from the Atlantic towards the extreme north of Scotland.

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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for WEDNESDAY 15TH OCTOBER. 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 2 ³⁰ P. and Sea Level.	Temp. Dry.	Wind.		Weather.	Barometer. Reading at 2 ³⁰ P. and Sea Level.	Difference from 8 a.m. yesterday.	Shade Temp.			Wind.		Sea. (0 to 5.)	Shade Temp.		Amount of Rainfall.		
				Dir.	Force. (0 to 12.)				Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)		Max.	Min.			
SCANDINAVIA.	Haparanda ...	29.85	37	2	0	o	29.74	-1.29	38	38	+1	SE	4	7	•	39	34	0.08	
	Hernösand ...	29.82	40	2	0	f	29.63	-3.1	45	44	+1	2	0	6	•	37	37	—	
	Stockholm ...	29.90	48	2	0	o	29.79	-1.21	53	48	0	WSEW	2	6	•	52	46	—	
	Wisby ...	29.96	48	W	4	o	29.86	-1.10	48	48	-1	W	4	6	•	50	46	—	
	Bodö ...	29.67	43	E	2	o	29.46	-1.40	47	44	+2	SE	2	0	1	?	40	—	
	Christiansund	29.57	52	SE	3	o	29.37	-1.44	49	47	-3	SESE	3	0	3	54	48	0.08	
	Skudesnaes ...	29.78	53	S	6	p	29.43	-1.55	53	49	-1	S	6	0	5	53	52	0.20	
	Christiania Fjord (Fjorder)	29.84	54	WSEW	5	c	29.62	-1.29	52	51	+1	SESE	5	2	4	52	52	—	
	Skagen (The Scaw)	29.92	51	W	2	c	29.63	-1.42	52	51	0	S	4	6	3	53	53	—	
	Fanö ...	29.97	50	S	2	c	29.68	-1.49	53	53	+1	SEW	4	0	•	57	48	—	
BRITISH ISLANDS.	Sumburgh Head	29.67	48	W	1	o	29.18	-1.59	46	45	-7	2	0	7	3	53	44	0.22	
	Stornoway ...	29.60	50	SEW	4	o	29.27	-1.53	43	42	-6	W	4	0	4	54	39	0.56	
	Wick ...	29.69	50	SEW	2	c	29.25	-1.58	43	41	-11	W	3	6	2	54	40	0.12	
	Nairn ...	29.72	50	WSEW	2	c	29.33	-1.52	42	41	-13	W	1	6	2	56	41	0.15	
	Aberdeen ...	29.77	51	SEW	2	bc	29.31	-1.60	46	43	-8	WSEW	3	6	3	62	45	0.25	
	Leith ...	29.86	43	W	2	c	29.41	-1.56	46	44	-11	W	2	6	•	62	43	0.22	
	Shields ...	29.92	58	SEW	3	c	29.40	-1.61	51	48	-5	WSEW	3	6	2	60	47	0.10	
	Spurn Head ...	29.99	56	WSEW	3	bc	29.59	-1.58	53	50	+1	SEW	6	6	4	64	49	—	
	York ...	29.94	57	SEW	1	o	29.57	-1.60	51	49	+11	SEW	1	0	•	61	39	0.02	
	Loughborough	30.05	52	SEW	1	c	29.66	-1.55	52	49	+12	SEW	5	6	•	62	40	—	
GERMANY & HOLLAND.	Ardrossan ...	29.88	54	WSEW	3	c	29.46	-1.52	50	46	-6	W	5	6	4	57	46	0.42	
	Malin Head ...	29.83	52	SEW	4	og	29.45	-1.46	47	44	-6	WSE	5	6	4	58	47	0.60	
	Mullaghmore ...	29.91	53	SEW	6	c	29.63	-1.40	49	45	-4	WSEW	6	6	6	57	47	0.35	
	Belmullet ...	29.91	53	WSEW	4	o	29.67	-1.38	49	44	-4	WSEW	5	6	•	56	46	0.16	
	Donaghadee ...	29.93	50	SEW	2	bc	29.58	-1.46	46	44	-8	W	4	6	2	61	42	0.12	
	Liverpool (Bidston)	30.00	54	WSEW	2	c	29.61	-1.55	52	47	+5	W	6	6	4	59	47	0.15	
	Holyhead ...	30.02	53	W	2	c	29.66	-1.48	51	48	-6	WSEW	6	6	5	60	50	0.07	
	Parsonstown ...	30.04	53	SEW	1	c	29.73	-1.39	49	44	-8	WSEW	1	6	•	59	46	0.21	
	Valencia ...	30.10	56	WSEW	3	o	29.87	-1.29	52	48	-3	WSEW	5	6	•	58	51	0.26	
	Roche's Point...	30.11	56	WSE	3	c	29.88	-1.34	53	50	-4	WSEW	3	6	3	58	50	0.01	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.07	57	SEW	4	c	29.76	-1.44	52	50	-4	WSE	6	6	6	58	51	0.30	
	Scilly ...	30.12	59	SEW	2	c	29.93	-1.38	57	57	+5	WSEW	6	6	5	59	50	—	
	Prawle Point ...	30.13	54	W	2	c	29.94	-1.33	56	54	-1	W	6	6	4	65	51	—	
	Jersey (St. Aubin's)	30.14	56	WSEW	2	c	30.01	-1.20	57	53	+2	W	4	6	3	59	52	0.05	
	Hurst Castle ...	30.10	58	W	2	bc	29.87	-1.34	56	53	+8	WSEW	5	6	3	64	48	0.01	
	Dungeness ...	30.06	58	WSEW	2	c	29.85	-1.34	55	54	-1	W	4	6	3	65	45	—	
	London ...	30.06	48	SEW	1	c	29.82	-1.40	51	43	+16	SEW	3	6	•	57	35	—	
	Oxford ...	30.06	51	2	0	c	29.77	-1.46	50	43	+16	SEW	4	0	•	67	35	0.23	
	Cambridge ...	30.03	53	SEW	1	c	29.73	-1.44	52	51	+13	S	2	0	•	70	36	—	
	Yarmouth ...	30.02	57	S	1	bc	29.70	-1.46	51	50	+6	WSEW	4	6	2	59	44	—	
PENIN- SULA.	Cuxhaven ...	30.08	56	SEW	2	c	29.88	-1.32	52	51	+7	SEW	3	6	•	59	49	—	
	Berlin ...	30.13	57	2	0	c	29.95	-1.31	44	43	-3	SE	2	0	•	64	43	—	
	Wiesbaden ...	30.00	•	•	•	•	30.00	-1.31	47	46	+5	2	0	•	•	61	•	—	
	Munich ...	30.23	48	2	0	c	30.09	-1.29	44	42	+3	SEW	1	6	•	59	37	—	
	The Helder ...	30.00	52	S	1	c	29.78	-1.45	56	54	+12	SEW	3	0	3	61	•	—	
	Brussels (9 a.m.)	30.25	58	W	3	•	29.93	-1.30	52	50	-2	SEW	4	0	•	70	51	—	
	Cape Gris Nez	30.13	57	SEW	1	bc	29.91	-1.28	53	53	+3	W	4	0	3	63	54	—	
	Paris ...	30.13	57	SEW	1	bc	30.03	-1.22	49	47	+6	SEW	1	6	•	69	•	—	
	Brest ...	30.18	60	WSEW	4	bc	30.10	-1.13	59	55	+4	WSE	4	0	4	71	•	—	
	Lorient ...	30.18	60	WSEW	4	bc	30.10	-1.13	59	57	+6	W	4	0	4	68	50	—	
FRANCE AND BELGIUM.	Rochefort ...	30.16	65	S	3	c	30.13	-1.07	60	58	+4	WSEW	3	0	•	75	54	—	
	Belfort ...	30.13	58	E	1	bc	30.13	—	42	32	+8	E	1	2	•	64	38	—	
	Lyons ...	30.19	61	S	1	c	30.13	-1.19	54	51	+8	WSEW	1	0	•	71	50	—	
	Nice ...	30.20	62	E	4	bc	30.11	-1.18	57	52	-4	E	4	0	2	75	53	—	
	Perpignan ...	30.19	61	2	0	p	30.13	-1.15	61	56	+2	W	2	0	•	71	57	0.08	
	Biarritz ...	30.21	62	S	3	p	30.19	0.00	59	53	-5	SEW	3	0	3	66	50	0.08	
	Corunna ...	30.24	66	W	3	c	30.21	-1.06	59	55	-1	W	3	6	5	70	57	—	

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

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

WEATHER CHARTS

for 8 a.m. on

Wednesday, 15th October,

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:

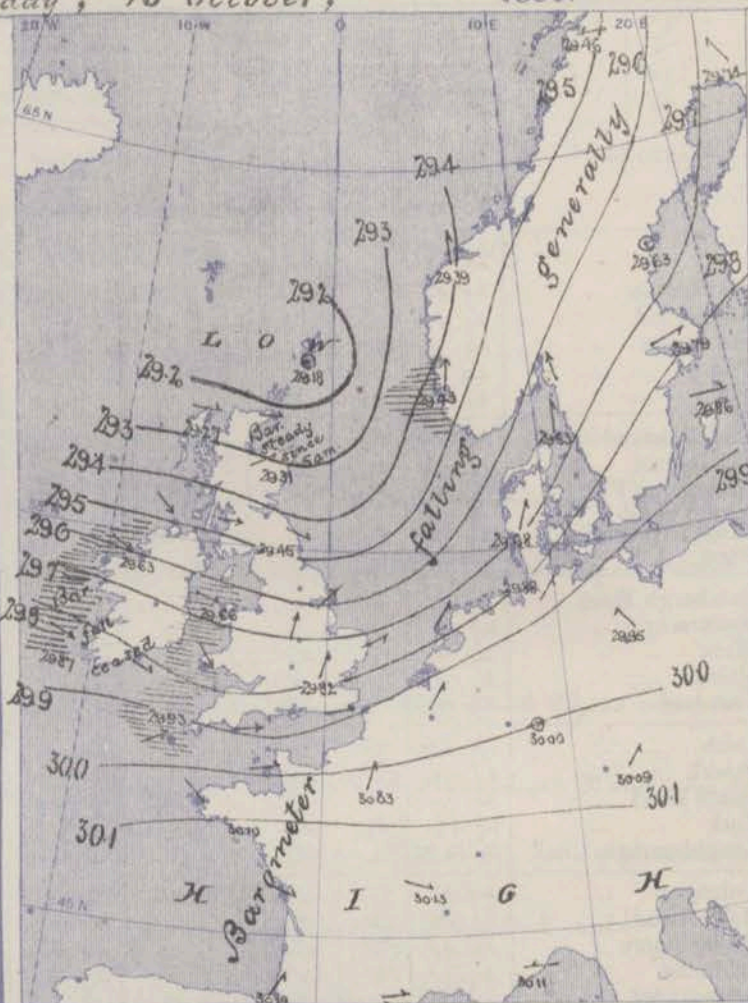
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years; 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.708
Stornoway	29.735
Wick	29.745
Nairn	29.761
Aberdeen	29.774
Leith	29.804
Shields	29.855
York	29.872
Loughborough	29.891
Ardrossan	29.813
Donaghadee	29.832
Holyhead	29.853
Liverpool	29.864
Parsonstown	29.881
Valencia	29.873
Roche's Point	29.870
Pembroke	29.868
Silly	29.894
Jersey	29.904
Hurst Castle	29.907
Dover	29.909
LONDON	29.911
Oxford	29.910
Cambridge	29.900
Yarmouth	29.886



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.

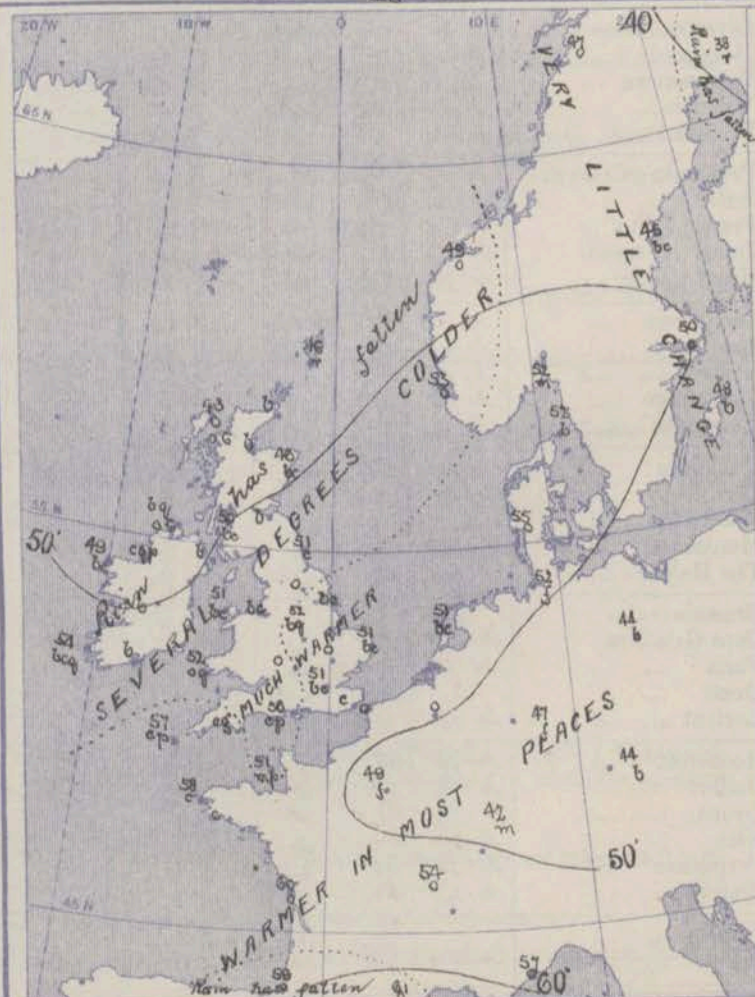
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of October.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	49.7	41.6	46.0	44.3	4.33
Stornoway	50.5	39.5	45.3	44.1	4.94
Wick.....	51.6	40.1	46.1	44.3	2.94
Nairn	51.6	40.6	44.5	42.5	2.38
Aberdeen	52.3	41.0	45.5	43.5	2.88
Leith.....	54.7	41.5	46.5	44.7	1.94
Shields	53.0	42.8	47.1	45.4	2.46
York	54.8	41.0	45.9	44.5	2.64
Loughborough	55.3	41.4	46.4	45.0	2.98
Ardrossan	53.5	43.6	47.6	45.6	4.31
Donaghadee.....	53.2	43.3	47.7	46.5	3.35
Holyhead.....	54.5	47.0	50.2	48.2	4.53
Liverpool.....	53.6	44.6	47.8	45.8	3.62
Parsonstown	54.7	41.1	48.4	44.7	3.27
Valencia	56.6	46.5	51.3	49.1	6.09
Roche's Point	55.8	45.9	50.2	48.4	4.17
Pembroke.....	54.8	48.0	51.2	49.1	4.13
Silly	56.6	50.3	53.8	51.7	3.84
Jersey	58.1	49.2	53.6	51.1	4.34
Hurst Castle	57.1	46.0	51.4	49.6	3.24
Dover	55.8	47.0	50.7	48.7	3.28
LONDON	56.6	43.2	48.0	46.4	2.74
Oxford	55.3	42.5	46.7	45.3	2.72
Cambridge	56.4	41.2	46.4	45.4	2.36
Yarmouth	54.3	44.8	49.2	47.9	2.97

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, 30.21 in. at Lisbon, 30.1 in. and upwards over Spain and all the more southern part of France.
Lowest, 29.2 in. and less, in a depression the centre of which lay off the north of Scotland.
Gradient moderate or slight generally.

Barometer falling in most places, - briskly in the east and south, - but inclined to rise again at some of our extreme western and northern stations.

TEMPERATURE

Highest, 61° at Perpignan, 60° at Rochefort, 59° at Orient and Biarritz, 58° at Brest, and 57° at Bally, Jersey, and Nice.

Lowest, 38° at Haparanda, 42° at Halmstad and Brest, 43° at Stromsund and Kiel, and 44° at Berlin and Munich.

The highest maxima registered over our Islands yesterday were 71° at Loughree, 67° at Oxford, and 65° at Ponce Point and Dungannon.

WIND

W¹ over the greater part of our Islands and France, but SW¹ in the east and southeast of England, and also over the Netherlands; strong in force on the more exposed parts of the English and Irish coasts.

Moderate to strong from the SW¹ in Norway and Denmark, but SE¹ or E¹ in the north of Scandinavia.

Variable in Germany and the east of France.

WEATHER

Fine over the greater part of the United Kingdom as well as in Germany and the south of Sweden, but showery in the south of England and over the North of Germany.

Dull over Scandinavia, Denmark, the Netherlands and France, with rain at Haparanda.

Since yesterday morning, rain has fallen in nearly all parts of our Islands, - heavily in the extreme northwest.

SEA

Rather rough on our west and southwest coasts and also at Hudsons, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression in the north will probably be followed shortly by other disturbances from the West and gusty unsettled weather seems likely to prevail in all districts.

FORECASTS

For the 24 hours ending at NOON on 16TH OCT. 1890.

DISTRICTS.

FORECASTS.

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

W¹ to NW¹ winds, increasing in force unsettled, some showers.

Same as No 5.

SW¹ to W¹ winds, fresh or strong; squally, some showers.

DISTRICTS.

FORECASTS.

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

W¹ and NW¹ winds, strong; squally, some showers.

W¹ winds, fresh or strong, squally, some showers.

Same as No 6 and 7.

Same as No 8.

WARNINGS

The SOUTH CONE is still flying in districts 0, 1, 6, and part of 9.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA	SEA		BAR:	THER:		WIND		WEA	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.91	54	53	2	4	b	4		Holyhead ...	30.06	59	57	2W	4	4
Sumburgh Head ...	29.70	49	49	W	2	p	4		Valencia ...	30.16	58	54	W	3	3
Stornoway ...	29.74	52	50	SW	4	c	4		Scilly ...	30.18	59	57	W	2	2
Aberdeen ...	29.82	58	54	SW	4	c	3		Jersey ...	30.18	57	56	W	2	2
Sbields ...	29.99	58	54	SW	4	c	2		Dungeness ...	30.12	64	61	2	0	0
Ardrossan ...	29.73	57	52	W	4	b	3		London ...	30.10	57	53	2	0	0
Malin Head ...	29.93	55	51	W	4	b	2		Yarmouth ...	30.11	59	57	SE	1	2
Mullaghmore ...	30.01	56	52	W	5	b	4		Rochefort ...	30.19	74	67	SE	3	1
Belmullet ...	30.02	53	52	W	4	b	*								

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

Weather foggy over England, the Channel, central France, and some part of Germany. Sky more or less cloudy in nearly all other parts of Europe, with passing showers in the north of Ireland and steady rain in Ireland, but weather fine over Germany, Austria, Italy, and the south of France. Fog continuing over southeast of England until late in evening; rain settling in at several of our western and northern stations.

Temperature highest 70° at Oporto and Brindisi, 69° at Barcelona, Palma, and Algiers, and 68° at Tunis; above 60° at nearly all the Mediterranean stations, and above 55° in the western parts of the United Kingdom. Lowest (1) 33° at Moscow, 35° at Archangel, 36° at Kuopio; (2) 34° at Oxford, 35° in London, 39° at Cambridge, and 40° at York and Loughborough. Subsequently rising to between 65° and 70° over the southern and southern parts of England and exceeding 70° at several of the French stations.

Wind light or moderate from the SWnd or Wnd over the greater part of the United Kingdom, and also over the Netherlands, Denmark and the Baltic; variable over the northern parts of Scandinavia and Russia. Light from the End over the Channel, the Bay of Biscay and Spain; chiefly N³ in Italy; variable in Germany, Austria, and Algeria. SWnd and Wnd breezes extending later to the Channel stations; wind freshening on our extreme northwest coasts.

Barometer highest, 30.2 ins. to 30.3 ins. or more, in a large anticyclone covering the whole of central, southern, and eastern Europe, and extending northwards as far as Central England. Lowest 29.8 ins. and less, in a shallow depression lying to the northward of our Islands. Quick fall of barometer taking place over Western Europe during day; anticyclone receding southwards, and new depression beginning to approach the north of Scotland.

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

Issued by the Meteorological Office, 65, Victoria Street, London. R. H. SCOTT, Secretary.																		
YESTERDAY EVENING.																		
8 A.M. TO DAY.																		
PAST 24 HOURS.																		
STATIONS.	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 2.)	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 ...	29.58	41	SW	2	+	29.53	-.21	42	42	+4	E	2	0	*	?	34	0.24
	Hernösand ...	29.50	46	S	2	0	29.47	-.16	46	46	+1	SSE	6	0	*	54	37	.
	Stockholm ...	29.60	46	SE	2	6	29.43	-.36	50	48	0	SE	4	0	*	55	43	.
	Wisby ...	29.65	47	NSW	4	bc	29.39	-.47	50	49	+2	S	6	0	*	55	45	.
	Bodö ...	29.36	45	E	2	0	29.32	-.14	45	41	-2	ENE	2	6	1	48	43	.
	Christiansund ...	29.05	52	SE	3	c	29.12	-.27	46	45	-3	new	2	7	2	54	41	0.44
	Skudesnaes ...	29.17	49	new	3	c	29.10	-.33	47	44	-6	SE	4	c	4	54	43	0.43
	Christiania Fjord (Færder) ...	29.30	54	S	6	m	29.13	-.49	49	47	-3	SSE	2	7	3	54	48	0.63
	Skagen (The Scaw) ...	29.28	53	SW	6	7	29.15	-.48	48	46	-4	SW	1	bc	3	55	46	0.47
	Fanö ...	29.31	49	SSW	4	7	29.18	-.50	48	45	-7	new	2	c	*	57	46	0.55
BRITISH ISLANDS.	Sumburgh Head ...	29.06	43	SW	1	b	29.09	-.09	42	40	-4	W	0	bc	2	51	39	0.07
	Stornoway ...	29.05	45	SW	5	cph	29.27	-.00	43	43	0	new	8	7	6	48	39	0.58
	Wick ...	29.04	43	W	4	0	29.26	+0.01	40	39	-3	W	5	0	3	50	39	0.15
	Nairn ...	29.09	43	W	4	0	29.30	-.03	41	40	-1	W	5	c	4	50	40	0.13
	Aberdeen ...	29.18	42	SSW	2	bc	29.24	-.07	42	39	-4	new	7	bcg	4	54	40	0.12
	Leith ...	29.30	44	W	3	bc	29.38	-.03	44	40	-2	W	3	bv	*	51	39	0.10
	Shields ...	29.38	45	W	3	c	29.35	-.10	43	40	-8	new	4	b	2	53	40	.
	Spurn Head ...	29.45	51	new	6	bc	29.41	-.18	48	44	-5	W	7	b	5	54	42	0.02
	York ...	29.48	44	W	3	7	29.45	-.12	46	40	-8	W	3	b	*	56	40	0.11
	Loughborough ...	29.56	48	W	3	7	29.58	-.08	46	42	-6	W	4	og	*	57	41	0.19
BRITISH ISLANDS.	Ardrossan ...	29.32	48	new	6	c	29.45	-.01	46	45	-4	new	7	bcg	6	52	43	0.13
	Malin Head ...	29.36	48	new	7	oghp	29.53	+0.04	44	42	-8	new	7	ogp	5	50	39	0.07
	Mullaghmore ...	29.57	49	new	8	cghr	29.75	+0.12	48	45	-1	new	9	cgr	7	50	43	0.48
	Belraulet ...	29.67	47	new	7	bc	29.86	+0.19	48	43	-1	new	8	ou	*	50	43	0.22
	Donaghadee ...	29.48	44	W	6	c	29.60	+0.02	44	43	-2	W	6	7	4	52	43	0.10
	Liverpool (Bidston) ...	29.50	45	W	6	c	29.57	-.04	49	44	-3	new	7	bc	5	53	44	0.26
	Holyhead ...	29.57	47	new	6	cgp	29.66	-.00	46	45	-3	new	8	bcg	6	54	44	0.03
	Parsonstown ...	29.71	45	new	2	0	29.85	+0.12	43	40	-4	SW	1	b	*	52	40	0.05
	Valencia ...	29.88	51	new	6	ogp	30.02	+0.15	49	46	-5	new	4	bcg	5	57	46	0.08
	Roche's Point ...	29.76	50	new	6	bc	29.94	+0.11	48	44	-5	new	5	b	4	58	45	.
BRITISH ISLANDS.	Pembroke (St. Ann's Hd.) ...	29.69	52	new	7	c	29.83	+0.07	49	45	-3	new	6	bcg	6	55	48	0.04
	Scilly ...	29.83	56	new	6	cgp	29.94	+0.01	50	48	-7	new	6	cgp	4	58	47	0.10
	Prawle Point ...	29.76	53	new	7	bc	29.83	-.05	47	43	-9	new	5	c	4	57	43	0.12
	Jersey (St. Aubin's) ...	29.81	56	W	5	c	29.87	-.14	52	46	-8	new	6	cpgm	5	60	47	0.22
	Hurst Castle ...	29.70	55	W	6	c	29.73	-.14	48	46	-8	new	5	b	4	58	45	0.30
	Dungeness ...	29.63	53	new	5	c	29.62	-.23	45	43	-10	new	7	bc	5	60	42	0.13
	London ...	29.63	49	new	3	b	29.62	-.20	45	42	-6	new	3	b	*	56	41	0.21
	Oxford ...	29.62	44	W	4	c	29.65	-.12	46	43	-4	new	4	b	*	56	41	0.19
	Cambridge ...	29.56	49	SW	2	b	29.57	-.16	46	43	-6	new	2	bc	*	56	39	0.22
	Yarmouth ...	29.53	49	new	3	bc	29.43	-.32	46	44	-5	new	6	bg	4	54	40	0.16
GERMANY & HOLLAND.	Cuxhaven ...	29.52	50	SSW	4	0	29.36	-.52	46	45	-6	SW	2	bc	*	56	45	0.12
	Berlin ...	29.68	56	SW	3	c	29.43	-.52	50	48	+6	W	3	0	*	63	?	.
	Wiesbaden ...	*	*	*	*	*	29.56	-.44	49	45	+2	W	4	0	*	59	?	0.32
	Munich ...	29.95	54	W	3	c	29.66	-.43	51	48	+7	SW	4	0	*	63	?	.
	The Helder ...	29.46	54	new	4	b	29.30	-.48	50	46	-6	W	5	b	4	59	45	0.59
	Brussels (9 a.m.) ...	*	*	*	*	*	29.56	-.37	43	?	-9	SW	6	bc	*	60	41	.
	Cape Gris Nez ...	29.68	55	W	8	bc	29.62	-.29	45	47	-10	W	7	0	7	61	46	0.20
	Paris ...	29.85	56	new	3	0	29.77	-.26	44	43	-5	new	2	bc	*	61	43	0.12
	Brest ...	29.83	57	new	5	0	29.95	?	53	50	-5	new	6	c	4	?	46	0.08
	Lorient ...	29.95	60	new	6	0	29.96	-.14	53	50	-6	new	5	c	5	63	50	.
FRANCE AND BELGIUM.	Rochefort ...	30.06	62	W	4	0	29.95	-.18	61	59	+1	new	6	0	*	68	54	0.12
	Belfort ...	30.10	59	W	1	0	29.89	-.24	?	52	?	W	2	7	*	66	?	0.28
	Lyons ...	30.03	57	new	1	0	29.86	-.27	57	52	+3	SW	3	7	*	65	52	.
	Nice ...	30.03	57	?	0	c	29.85	-.26	53	51	-4	ENE	2	c	0	63	50	0.04
	Perpignan ...	30.09	63	?	3	b	30.04	-.09	57	53	-4	SW	2	0	*	64	53	.
	Biarritz ...																	
	Corunna ...	*	*	*	*	*												
	Lisbon ...	30.15	65	new	4	b	30.19	-.02	58	54	-1	new	3	b	4	73	63	.

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 *Thursday, 16th Octol*

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 6 to 7; → = forces 1 to 4.

○ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

▨ = Rough. ▨ = High.

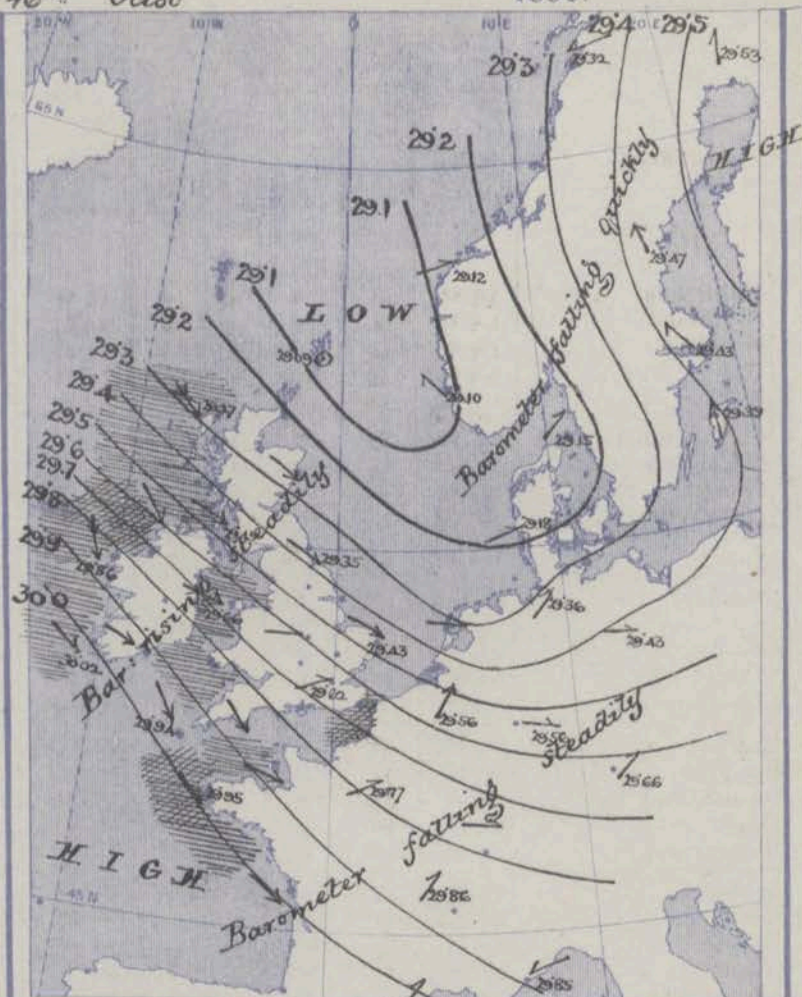
MEAN HEIGHT OF THE BAROMETER

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

STATIONS.

MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.708
Stornoway	29.735
Wick	29.745
Nairn	29.761
Aberdeen	29.774
Leith	29.804
Shields	29.835
York	29.872
Loughborough	29.891
Ardrossan	29.813
Donaghadee	29.832
Holyhead	29.853
Liverpool	29.864
Parsonstown	29.881
Valencia	29.873
Roche's Point	29.870
Pembroke	29.868
Scilly	29.894
Jersey	29.904
Hurst Castle	29.907
Dover	29.909
LONDON	29.911
Oxford	29.910
Cambridge	29.900
Yarmouth	29.886



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.

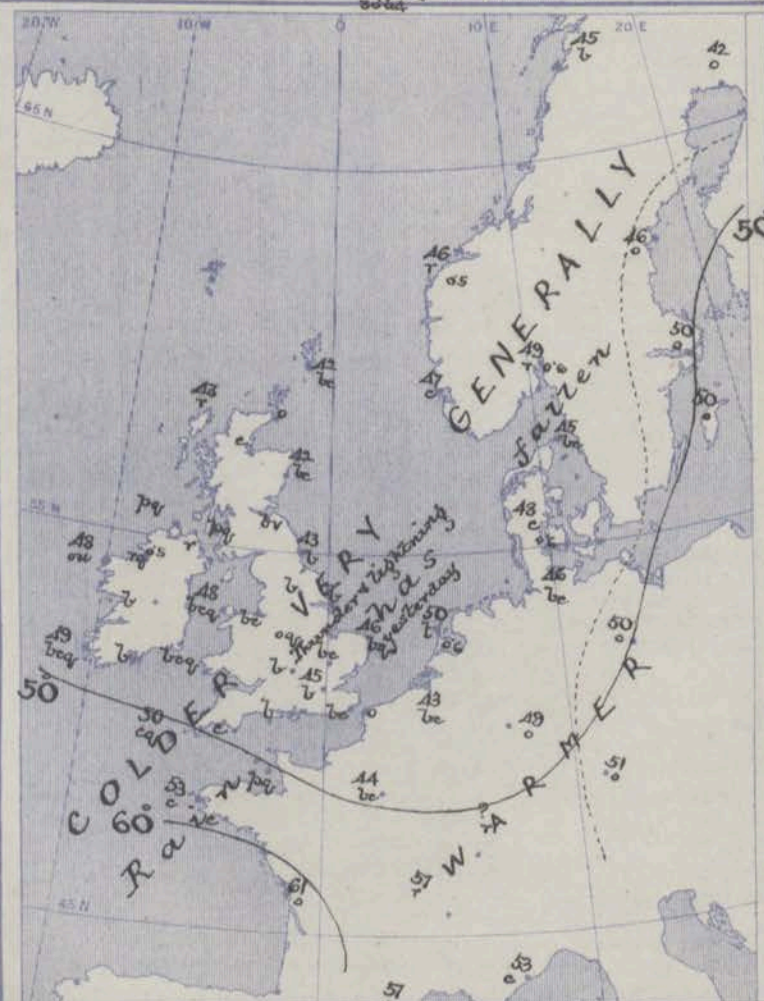
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of October.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	49.7	41.6	46.0	44.3	4.33
Stornoway	50.5	39.5	45.3	44.1	4.94
Wick.....	51.6	40.1	46.1	44.3	2.94
Nairn.....	51.6	40.6	44.5	42.5	2.38
Aberdeen.....	52.3	41.0	45.5	43.5	2.88
Leith.....	54.7	41.5	46.5	44.7	1.94
Shields.....	53.0	42.8	47.1	45.4	2.46
York.....	54.8	41.0	45.9	44.5	2.64
Loughborough.....	55.3	41.4	46.4	45.0	2.98
Ardrossan.....	53.5	43.6	47.6	45.6	4.31
Donaghadee.....	53.2	43.3	47.7	46.5	3.35
Holyhead.....	54.5	47.0	50.2	48.2	4.53
Liverpool.....	53.6	44.6	47.8	45.8	3.62
Parsonstown.....	54.7	41.1	46.4	44.7	3.27
Valencia.....	56.6	46.5	51.3	49.1	6.09
Roche's Point.....	55.8	45.9	50.2	48.4	4.17
Pembroke.....	54.8	48.0	51.2	49.1	4.13
Scilly.....	56.6	50.3	53.8	51.7	3.84
Jersey.....	58.1	49.2	53.6	51.1	4.34
Hurst Castle.....	57.1	46.0	51.4	49.6	3.24
Dover.....	55.8	47.0	50.7	48.7	3.28
LONDON.....	56.6	43.2	48.0	46.4	2.74
Oxford.....	55.3	42.5	46.7	45.3	2.72
Cambridge.....	56.4	41.2	46.4	45.4	2.36
Yarmouth.....	54.3	44.8	49.2	47.9	2.97

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 the Iberian Peninsula.
Lowest, 29.1 in. and less, in a depression lying between the Scotch and Norwegian coasts.
Gradient rather steep over our Islands but moderate or slight elsewhere.

TEMPERATURE

Barometer rising in all the more western and northern parts of the United Kingdom, but falling elsewhere, — most in Denmark.
Highest, 61° at Rochefort, 58° at Lisbon, 57° at Lyons and Perpignan, and 53° at Beirut, Lorient, and Nice.
Lowest, 40° at Nish, 41° at Nain, 42° at Aberdeen, Haparanda, and Sumburg Head, and 43° at Stomoway, Shields, and Barronstown.
The maxima registered over the United Kingdom yesterday were below 60° excepting in the Channel Islands.

WIND

Strong from the NW^W over the whole of our Islands and also in the coast of France, with gales at several of our northern stations.
Light to fresh from the SW^W over Denmark, Germany, the Netherlands, and Central France.
Moderate from the SE^W or SE^E in Scandinavia.

WEATHER

Squally and showery over the greater part of Western Europe, but fine at present in the east and south of Great Britain.
Rain fell generally yesterday, and thunder and lightning were observed at some of the English stations.

SEA

High at Mullaghmore and also on the French side of the Channel, rough on all the more exposed parts of our coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Small secondary depressions are likely to travel southeastwards across our Islands in the course of the ensuing 24 hours and squally, showery weather is probable in all districts with NW^W gales on many parts of our coasts.

FORECASTS

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

DISTRICTS.

FORECASTS.

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

W^W to NW^W winds, strong, a gale in places; squally, some showers.
W^W to NW^W winds, fresh and gusty, some showers.
NW^W winds, strong to a gale; squally, some showers.

DISTRICTS.

FORECASTS.

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

NW^W strong winds and gales; squally, showery.
Same as N°5
Same as N°6 and 7.
NW^W winds, fresh or strong; squally, some showers.

WARNINGS

The NORTH CONE has been hoisted this morning in districts 1, 3, and part of 0, and the signals are now flying on all coasts.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.22	51	50	S	7	r	5		Holyhead ...	29.60	52	46	W	6	bcq
Sumburgh Head ...	29.09	49	46	W	2	c	3		Valencia ...	29.87	53	49	W	6	bcq
Stornoway ...	29.10	48	44	W	6	o	6		Scilly ...	29.86	57	57	W	6	bc
Aberdeen ...	29.26	51	44	SW	4	bcq	3		Jersey ...	29.88	59	55	W	5	o
Shields ...	29.42	50	43	W	3	c	2		Dungeness ...	29.71	57	55	W	7	r
Ardrossan ...	29.40	52	43	W	6	r	4		London ...	29.64	53	52	W	4	c
Malin Head ...	29.42	46	43	W	6	o	4		Yarmouth ...	29.56	53	52	W	4	c
Mullaghmore ...	29.56	49	45	W	7	cq	6		Rochefort ...	30.12	66	61	W	4	bc
Belmullet ...	29.67	48	44	W	7	cp	*								

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

Weather fine and bright over Austria Hungary, and Southeastern Europe generally, as well as over the Iberian Peninsula and on the southern shores of the Mediterranean. Dull and gloomy over Russia, very changeable and unsettled elsewhere, squally and showery in many parts of the United Kingdom, temporarily clear in others. Rain falling very generally later, chiefly in heavy, squally showers; thunder and lightning at some stations, and air becoming keen.

Temperature changing very suddenly and considerably over the British Islands and France. Highest in morning (60° and more) at most of the Mediterranean and Spanish stations, and exceeding 50° at most of the coast stations of France, Ireland, England, Holland, and Denmark, and over our own midland counties. Lowest, 20° at Archangel, 34° at Moscow, and below 40° over the inland parts of Ireland and Russia; 43° in the extreme north of Scotland. Rising during day to between 55° and 60° in many parts of England; succeeding night somewhat cold.

Wind strong to moderate from W. and NW., SW^{ly} over the Netherlands, S^{ly} in Denmark and Norway, SE^{ly} to E^{ly} over England; moderate W^{ly} to NW^{ly} in the north of France, E^{ly} and variable in the south. Very variable in direction elsewhere, and of little force. Increasing to a gale on our west and northwest coasts later, and to a strong squally breeze in the south, and veering towards NW. in our Islands generally.

Barometer highest, 30.1 in: and more over all the southern parts of Europe, and exceeding 30.2 in: over the Spanish Peninsula and also over European Turkey. Lowest 29.2 in: and less, in a depression off the north of Scotland, and below 29.4 in: at nearly all the Scotch and Norwegian stations. Northern depression moving northwards slowly later, growing deeper, and developing a V-shaped secondary system over the northeast of Great Britain and the North Sea.

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, 17th October, 1890.*
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

PUBLISHED BY THE METEOROLOGICAL OFFICE, 53, VICTORIA STREET, LONDON. H. 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 3.)	SHADE TEMP.		Amount of Rainfall.	
			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 ...	29.64	42	SW	2	0	29.69	+ .16	41	41	- 1	SE	0	+	+	43	39	-
	Hernösand ...	29.51	46	S	2	0	29.56	+ .09	46	46	0	E	2	+	+	52	43	-
	Stockholm ...	29.35	50	SE	4	0	29.48	+ .05	45	44	- 5	SE	2	0	+	52	45	0.04
	Wisby ...	29.47	33	SSW	4	0	29.46	+ .07	45	43	- 5	SSW	4	0	+	54	?	-
	Bodö ...	29.41	47	ENE	2	0	29.58	+ .26	47	45	+ 2	NE	2	+	+	50	41	-
	Christiansund ...	29.27	45	SSW	1	0	29.38	+ .26	47	46	+ 1	SSW	1	+	+	?	43	0.24
	Skudesnaes ...	29.27	46	N	4	0	29.31	+ .21	48	44	+ 1	NW	4	0	+	55	43	-
	Christiana Fjord (Fæder)	29.24	51	NNE	3	0	29.25	+ .12	49	46	0	SSW	5	0	+	52	45	-
	Skagen (The Scaw)	29.18	48	S	1	0	29.29	+ .14	46	45	- 2	SW	2	0	+	52	41	-
	Fanö ...	29.21	47	W	4	0	29.29	+ .11	45	44	- 3	SSW	4	+	+	50	45	0.51
BRITISH ISLANDS.	Sumburgh Head	29.38	44	NW	2	bc	29.44	+ .35	48	48	+ 6	N	3	0	+	48	38	0.21
	Stornoway ...	29.64	45	NW	7	r	29.82	+ .55	46	45	+ 3	NW	4	0	+	50	41	0.26
	Wick ...	29.47	40	NW	4	0	29.62	+ .36	48	47	+ 8	NW	6	cu	+	48	36	0.53
	Nairn ...	29.56	45	NW	3	0	29.78	+ .48	47	45	+ 6	W	3	cu	+	53	38	0.11
	Aberdeen ...	29.47	44	NW	5	cqpu	29.63	+ .39	45	44	+ 3	NW	6	cqpu	+	46	42	0.15
	Leith ...	29.51	47	N	4	0	29.74	+ .36	47	42	+ 3	NW	3	0	+	53	40	-
	Shields ...	29.32	48	NW	6	0	29.68	+ .33	44	41	+ 1	NW	4	0	+	50	38	0.13
	Spurn Head ...	29.37	48	W	7	bc	29.67	+ .26	45	45	0	NW	7	0	+	51	45	0.02
	York ...	29.44	47	SSW	4	0	29.74	+ .29	46	42	0	W	3	0	+	53	40	0.01
	Loughborough	29.60	47	NW	5	r	29.81	+ .23	48	45	+ 2	NW	4	bc	+	50	41	0.42
GERMANY & HOLLAND.	Ardrossan ...	29.60	49	NW	4	0	29.82	+ .37	49	46	+ 3	NW	5	0	+	55	44	0.04
	Malin Head ...	29.75	48	NW	7	cqpu	29.93	+ .40	49	45	+ 5	NW	5	og	+	49	43	-
	Mullaghmore ...	29.93	49	NW	8	ogq	30.03	+ .28	50	47	+ 2	NW	5	og	+	50	45	0.05
	Belmullet ...	30.00	47	NW	5	0	30.04	+ .21	48	47	0	SSW	1	0	+	49	45	0.11
	Donaghadee ...	29.72	49	NE	7	bc	29.89	+ .29	48	45	+ 4	NE	7	0	+	51	43	0.05
	Liverpool (Bidston)	29.60	49	NW	8	0	29.87	+ .30	49	47	0	NW	6	0	+	51	45	0.13
	Holyhead ...	29.73	50	NW	9	cq	29.94	+ .28	50	47	+ 2	NW	8	ogq	+	51	45	0.11
	Parsonstown ...	29.96	43	NW	2	bc	30.08	+ .23	47	44	+ 4	W	0	+	+	51	42	-
	Valencia ...	30.13	52	NW	5	cq	30.15	+ .13	58	57	+ 9	W	2	om	+	58	48	-
	Roche's Point...	30.08	51	NW	6	bc	30.12	+ .18	50	48	+ 2	NW	1	0	+	53	46	-
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.90	51	NW	6	0	30.06	+ .23	51	49	+ 2	NW	5	cqg	+	53	48	-
	Scilly ...	30.03	53	NW	7	cq	30.13	+ .19	55	55	+ 5	NW	5	cp	+	56	48	-
	Prawle Point ...	29.83	53	NW	4	bc	30.06	+ .23	49	46	+ 2	NW	4	0	+	55	45	-
	Jersey (St. Aubin's)	29.92	52	NW	5	bcp	30.07	+ .20	54	48	+ 2	NW	5	cq	+	58	51	0.02
	Hurst Castle ...	29.79	50	NW	6	bc	29.96	+ .23	49	46	+ 1	NW	6	0	+	55	48	-
	Dungeness ...	29.67	49	NW	6	bc	29.82	+ .20	47	45	+ 2	NW	5	0	+	57	42	-
	London ...	29.67	46	NW	4	bc	29.85	+ .23	47	44	+ 2	W	3	0	+	55	43	0.01
	Oxford ...	29.71	45	W	5	bc	29.88	+ .23	48	44	+ 2	W	3	bc	+	53	44	0.01
	Cambridge ...	29.59	48	W	2	0	29.79	+ .22	49	45	+ 3	W	2	bc	+	50	41	0.13
	Yarmouth ...	29.50	47	NW	6	ogq	29.67	+ .24	45	43	- 1	NW	5	0	+	51	40	0.12
PENIN- SULA.	Cuxhaven ...	29.34	47	SW	5	r	29.34	- .02	45	44	- 1	SSW	3	bc	+	50	44	0.08
	Berlin ...	29.49	48	SW	2	0	29.53	+ .10	40	39	- 10	SW	3	0	+	55	37	0.12
	Wiesbaden ...	*	*	*	*	*	29.62	+ .06	45	43	- 4	SW	2	0	+	55	43	0.24
	Munich ...	29.78	41	SW	6	0	29.73	+ .07	39	38	- 12	SW	6	0	+	52	37	0.51
	The Helder ...	29.40	46	SW	4	t	29.52	+ .22	52	48	+ 2	NW	5	0	+	54	45	0.41
	Brussels (9 a.m.)	*	*	*	*	*	29.72	+ .16	46	45	+ 3	NW	5	bc	+	53	41	0.67
	Cape Gris Nez	29.68	52	NW	8	0	29.81	+ .19	49	46	+ 1	NW	7	0	+	55	46	-
	Paris ...	29.86	46	NW	2	bc	29.93	+ .16	43	42	- 1	W	2	bc	+	52	42	-
	Brest ...	30.04	56	NW	5	0	30.12	+ .17	54	51	+ 1	NW	5	0	+	66	48	-
	Lorient ...	30.06	54	NW	5	bc	30.15	+ .19	54	48	+ 1	NW	6	0	+	59	52	-
FRANCE AND BELGIUM.	Rochefort ...	? 30.03	59	NW	6	0	? 30.15	+ .20	55	51	- 6	NW	5	0	+	63	48	0.04
	Belfort ...	? 29.80	51	W	2	+	? 29.80	+ .22	42	41	- 15	W	4	+	+	68	48	0.28
	Lyons ...	29.96	46	?	1	0	30.08	+ .22	42	41	- 15	W	2	0	+	?	41	0.04
	Nice ...	29.61	62	NW	7	0	29.80	- .05	51	37	- 2	ENE	5	0	+	72	48	-
	Perpignan ...	30.00	60	NW	4	0	30.15	+ .11	54	50	- 3	NW	3	0	+	73	50	0.12
	Biarritz ...	30.14	64	NW	6	+	30.23	+ .13	58	58	- 2	NW	6	+	+	64	55	0.12
	Corunna...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lisbon ...	30.19	66	NW	4	0	30.22	+ .03	59	55	+ 1	N	3	0	+	75	57	-

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

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

WEATHER CHARTS

for 8 a.m. on

Friday, 17th October,

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:

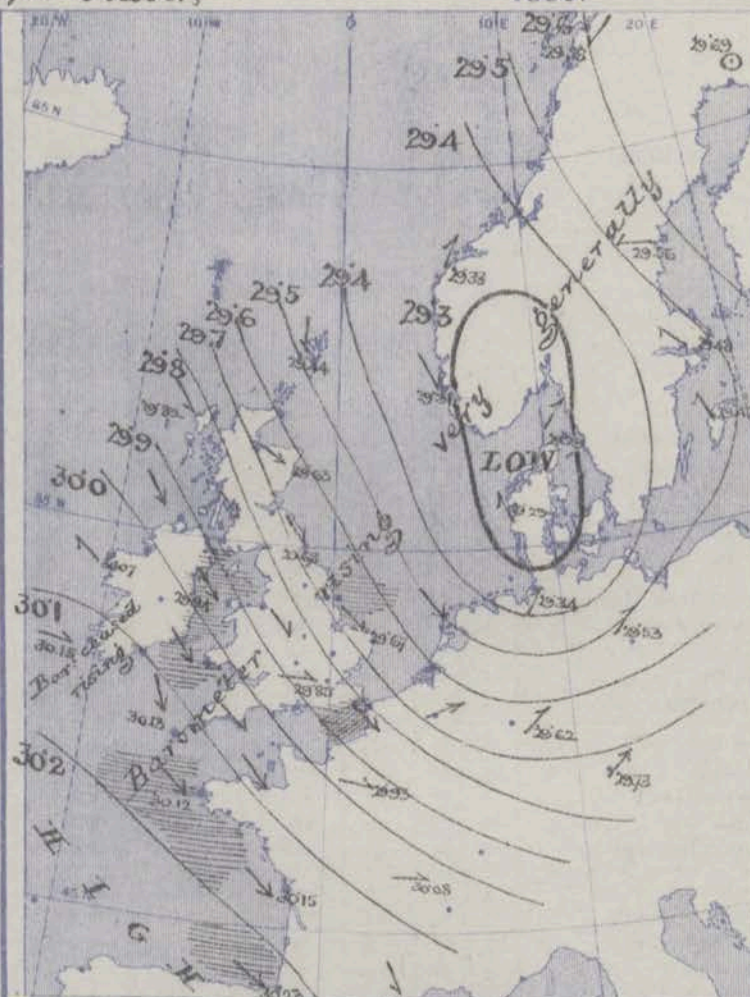
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.708
Stornoway	29.735
Wick	29.745
Nairn	29.761
Aberdeen	29.774
Leith	29.804
Shields	29.835
York	29.872
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Scilly	29.894
Jersey	29.904
Hurst Castle	29.907
Dover	29.909
LONDON	29.911
Oxford	29.910
Cambridge	29.900
Yarmouth	29.886



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 October.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head.....	49.7	41.6	46.0	44.3	4.33
Stornoway	50.5	39.5	45.3	44.1	4.94
Wick	51.6	40.1	46.1	44.3	2.94
Nairn	51.6	40.6	44.5	42.5	2.38
Aberdeen	52.3	41.0	45.5	43.5	2.88
Leith	54.7	41.5	46.5	44.7	1.94
Shields	53.0	42.8	47.1	45.4	2.48
York	54.8	41.0	45.9	44.5	2.64
Loughborough	55.3	41.4	46.4	45.0	2.98
Ardrossan	53.5	43.6	47.6	45.6	4.31
Donaghadee	53.2	43.3	47.7	46.5	3.35
Holyhead	54.5	47.0	50.2	48.2	4.53
Liverpool	53.8	44.6	47.8	45.8	3.62
Parsonstown	54.7	41.1	45.4	44.7	3.27
Valencia	56.6	46.5	51.3	49.1	6.09
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Yarmouth	54.3	44.8	49.2	47.9	2.97

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 an anticyclone lying over the Iberian Peninsula and the Bay of Biscay.
 Lowest, 29.3 in. and less, in an elongated depression lying over Denmark and the extreme south of Norway.
 Gradients still rather steep over Great Britain and the North Sea but inclined to moderate.
 Barometer rising generally but becoming very unsteady in the west of Ireland.

TEMPERATURE

Highest, 59° at Linton, 58° at Kibbena Island and Dussack, 56° at Seilly, and Rockport, and 54° at Jersey, Port Louis, and Nice.
 Lowest, 39° at Munich, 40° at Berlin, 41° at Haparanda, 43° at Paris, and 44° at Bielefeld.
 The maxima registered over our Islands were below 55° in most districts, and below 50° at some of our northern stations.

WIND

Strong from the NWth over the greater part of our Islands and also in the west of France, but light and variable in the west of Ireland.
 Moderate from the SWth over Germany and the Netherlands, light from the Sth or SEth in Denmark and Sweden.
 A fresh to strong gale from the NWth was experienced in many parts of the United Kingdom.

WEATHER

Changeable and showery over the greater part of our area, but fine at present over the eastern and central parts of England.
 Haze fell yesterday at all but our southernmost and southern stations, with thunder and lightning in many parts of England, as well as at Paris and the Helles.

SEA

High at Cape Fin May, rough on the west coasts of our Islands and France, and rather rough at Spinn Heads.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are indications in the extreme west of the advance of a new depression from the Atlantic, but the size and extent of the system are at present uncertain. Backing winds, are, however, probable on all our western coasts.

FORECASTS

For the 24 hours ending at NOON on 18th OCT^r 1890.

DISTRICTS.

FORECASTS.

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

NWth winds, moderating and backing;
 some showers at first then fair.
 Wth winds, fresh; some showers.
 at first then fair.

DISTRICTS.

FORECASTS.

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

Wind backing to the SWth; cloudy, unsettled, some rain.

Wind backing to the Sth, and freshening;
 dull, some rain.

WARNINGS

The Signals are still flying in districts 2, 3, 5, 7, 8, and part of 0.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND		WEA.	SEA		BAR.	THER.		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.17	55	46	ENE	2	c	4		Holyhead ...	29.70	50	46	NW	q	c q p
Sumburgh Head ...	29.27	46	45	NE	1	bc	2		Valencia ...	30.08	54	48	NW	5	bc q
Stornoway ...	29.45	50	46	NW	7	r	6		Scilly ...	29.98	55	52	NW	6	bc
Aberdeen ...	29.16	44	42	NW	3	cp	4		Jersey ...	29.91	57	49	NW	5	bc
Shields ...	29.86	47	43	W	4	o	2		Dungeness ...	29.67	57	49	NW	8	bc q
Ardrossan ...	29.44	51	48	WNW	8	c	6		London ...	29.67	55	49	NW	6	c q p
Malin Head ...	29.63	49	46	NW	8	o	5		Yarmouth ...	29.51	51	45	NW	6	bc q
Mullaghmore ...	29.85	49	45	NW	8	c q th	6		Rochefort ...	30.03	55	51	NW	5	b
Belmullet ...	29.95	49	45	NW	6	bc	*								

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

Weather squally and showery in our Islands and France; dull in nearly all other countries, with fog at several of the Russian stations, rain in some parts of Italy and Algeria, and thunder at the Helder. Fine over the greater part of Austria. Thunder and lightning occurring during day at many of the English stations and also at Tams.

Temperature highest 70° at Malta, 69° at Algiers, La Halle and Tunis, and 68° at Brindisi and Malta, above 60° in nearly all parts of Southern Europe, but below 50° over Central Spain. Lowest (1) 24° at Archangel, 34° at Moscow, 41° at St. Petersburg, and 42° at Haparanda; (2) 40° at Kiel, 41° at Kain, 42° at Sumburgh Head, and 43° at Stornoway, Shields, and Barronstown. Daily maxima below 55° in nearly all parts of the United Kingdom, and below 50° at several of our northern stations.

Wind chiefly cyclonic; strong to a gale from the NWrd over our Islands and the west of France, moderate or fresh from the SWrd over the Netherlands, Denmark, Germany, and the east of France, light to fresh from the Srd or SErd over Sweden the south of Norway, and the northern and central parts of Russia. Light and variable over Austria and the south of Russia, and also in Algeria. Sth in Italy; NEth or Nth in Spain. Strong gale experienced later over Irish Sea.

Barometer highest, 30.2 ins: and upwards, in an anticyclone lying over Spain; 30.0 ins: and upwards over Russia. Lowest 29.1 ins: and less, in a depression lying between the Scotch and Norwegian coasts; gradients steep over the whole of our Islands. Depression subsequently travelling southeasterly to the extreme south of Norway and the north of Denmark, small secondary disturbance moving southwards along the east coast of Great Britain.

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, 18th October, 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 32° F. and Sea Level.	Dry.	Dirac.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirac.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ...	29.78	41	Z	0	b	29.88	+ .19	35	34	- 6	N	4	T	*	45	?		
Hernösand ...	29.66	42	Z	0	b	29.68	+ .12	45	44	- 1	NNE	4	T	*	52	45	0.55	
Stockholm ...	29.51	43	N	2	b	29.31	- .17	48	48	+ 3	NE	4	T	*	52	39	0.84	
Wisby ...	29.44	46	E	4	b	29.20	- .26	45	45	0	WSW	2	T	*	52	41	0.32	
Bodö ...	29.78	44	NE	4	o	29.99	+ .41	41	38	- 6	ESE	2	O	4	?	39	0.24	
Christiansund	29.63	47	NE	4	b	29.84	+ .46	46	44	- 1	NNE	8	T	5	48	45	0.12	
Skudesnaes ...	29.43	47	NNW	2	b	29.66	+ .25	46	44	- 2	NNW	4	C	2	48	43	0.43	
Christiania Fjord (Fæder)	29.52	49	ESE	5	bc	29.46	+ .21	45	44	- 4	NNW	6	T	2	50	43	0.16	
Skagen (The Scaw)	29.43	49	S	1	b	29.43	+ .14	45	44	- 1	N	3	T	3	50	41	0.08	
Fanö ...	29.45	44	Z	0	b	29.60	+ .21	38	37	- 7	NE	4	b	*	52	39	0.16	
BRITISH ISLANDS.																		
Sumburgh Head	29.73	49	N	6	o	30.06	+ .62	42	39	- 6	N	4	C	6	51	40	0.01	
Stornoway ...	29.97	48	N	6	b	30.23	+ .41	42	41	- 4	N	3	C	3	54	40	0.05	
Wick ...	29.87	45	N	4	o	30.16	+ .54	45	43	- 3	N	4	O	3	50	41	0.05	
Nairn ...	29.91	50	WNW	4	o	30.19	+ .41	45	43	- 2	WNW	4	O	4	50	43	0.02	
Aberdeen ...	29.79	47	NW	6	bcqj	30.04	+ .44	45	43	0	NW	5	bcqj	5	50	44	0.13	
Leith ...	29.82	51	NW	3	b	30.10	+ .36	45	41	- 2	NW	1	b	*	54	43		
Shields ...	29.75	51	NW	3	C	29.99	+ .31	48	45	+ 4	NW	4	C	5	55	41		
Spurn Head ...	29.75	52	WNW	6	C	29.90	+ .23	49	48	+ 1	N	8	rqj	6	52	48	0.08	
York ...	29.80	50	W	4	C	30.00	+ .26	49	44	+ 3	NW	4	O	*	55	44		
Loughborough	29.87	50	WNW	5	o	30.02	+ .21	49	45	+ 1	NW	3	Cqj	*	56	44		
Ardrossan ...	29.90	51	NW	4	b	30.14	+ .32	49	46	0	N	2	bcw	1	54	45		
Malin Head ...	30.03	50	NNW	5	op	30.22	+ .29	50	49	+ 1	NNW	4	O	3	51	47		
Mullaghmore ...	30.09	50	NNW	4	o	30.27	+ .24	48	46	- 2	NW	2	C	2	51	45	0.02	
Belmullet ...	30.10	49	NE	2	o	30.31	+ .24	46	45	- 2	S	1	O	*	51	41	0.06	
Donaghadee ...	29.97	50	NE	6	bc	30.17	+ .28	52	49	+ 4	NNE	6	bc	4	53	47		
Liverpool (Bidston)	29.91	51	WNW	5	o	30.10	+ .23	51	47	+ 2	NNW	3	b	3	52	49		
Holyhead ...	29.98	52	NNW	6	Cqj	30.14	+ .20	53	51	+ 3	NNW	6	bcqj	5	53	50		
Parsonstown ...	30.08	49	Z	0	o	30.29	+ .21	38	32	- 14	Z	0	bc	*	50	32	0.05	
Valencia ...	30.13	58	NW	3	tm	30.29	+ .14	55	53	- 3	N	2	O	2	59	53	0.27	
Roche's Point...	30.05	58	NW	5	C	30.26	+ .14	48	44	- 2	NNW	3	b	3	62	45		
Pembroke (St. Ann's Hd.)	30.01	50	NNW	3	T	30.24	+ .18	51	50	0	NNW	3	bc	3	52	49	0.10	
Scilly ...	30.08	59	W	5	op	30.21	+ .08	54	50	- 1	N	4	C	4	59	48	0.02	
Prawle Point ...	30.01	55	WNW	4	T	30.14	+ .08	52	47	+ 3	NW	2	C	2	56	44	0.16	
Jersey (St. Aubin's)	30.07	56	WNW	4	Cqj	30.10	+ .03	54	49	0	NW	4	bc	3	57	51	0.26	
Hurst Castle ...	29.96	52	NW	6	C	30.07	+ .11	46	45	- 3	NNW	4	b	3	56	44		
Dungeness ...	29.85	50	NW	4	C	29.89	+ .07	50	47	+ 3	NNW	5	C	4	54	41		
London ...	29.91	48	WNW	4	C	30.01	+ .16	50	45	+ 3	NW	4	C	*	55	44		
Oxford ...	29.93	49	WNW	4	C	30.03	+ .15	48	46	0	NW	3	Cqj	*	53	44		
Cambridge ...	29.86	48	NW	2	b	29.95	+ .16	50	46	+ 1	NW	3	O	*	55	44		
Yarmouth ...	29.73	49	NW	4	cm	29.77	+ .10	50	48	+ 5	NNW	6	Cqj	5	51	43	0.21	
GERMANY & HOLLAND.																		
Cuxhaven ...	29.46	44	N	2	b	29.46	+ .12	45	44	0	NE	3	b	*	50	44		
Berlin ...	29.47	45	SW	3	T	29.46	- .07	44	43	+ 4	W	2	O	*	45	?	0.08	
Wiesbaden ...	*	*	*	*	*	29.58	+ .04	47	45	+ 2	W	3	T	*	50	45	0.16	
Munich ...	29.81	40	W	7	T	29.74	+ .01	42	40	+ 3	SW	6	O	*	?	?	0.24	
The Helder ...	29.62	51	WNW	6	T	29.56	+ .04	50	49	- 2	NNE	5	C	4	55	46	0.51	
FRANCE AND BELGIUM.																		
Brussels (8 a.m.)	*	*	*	*	*	29.67	- .05	48	48	+ 2	NW	8	T	*	51	43	0.16	
Cape Gris Nez	29.86	52	NW	7	o	29.88	+ .07	51	48	+ 2	NW	6	O	7	55	46		
Paris ...	29.98	51	W	9	bc	29.96	+ .03	43	42	0	W	2	bc	*	55	41		
Brest ...	30.15	61	WNW	4	o	?	?	55	54	+ 1	N	4	O	4	?	52	0.16	
Lorient ...	30.17	58	NW	5	bc	30.11	- .04	56	54	+ 2	N	4	bc	4	59	54	0.04	
Rochefort ...	30.18	59	NW	6	bc	?	?	60	59	+ 5	NW	6	O	*	61	54	0.20	
Belfort ...	?	51	W	3	T	?	?	49	39	?	W	3	O	*	59	40	0.32	
Lyons ...	30.12	48	NNW	2	C	30.02	- .06	43	43	+ 1	E	1	T	*	52	?	0.24	
Nice ...	29.79	56	NW	6	b	29.84	+ .04	53	?	+ 2	NW	6	C	3	66	44		
Perpignan ...	30.17	59	NW	3	b	30.08	- .07	57	50	+ 3	W	2	O	*	63	?		
Biarritz ...	30.28	59	NW	3	o	30.19	- .04	59	58	+ 1	NW	5	T	5	63	55	0.24	
PENIN. SULA.																		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ...	30.19	67	WNW	2	b	30.18	- .04	61	55	+ 2	Z	0	b	5	75	57		

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

Saturday, 18th October,

1890.

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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;

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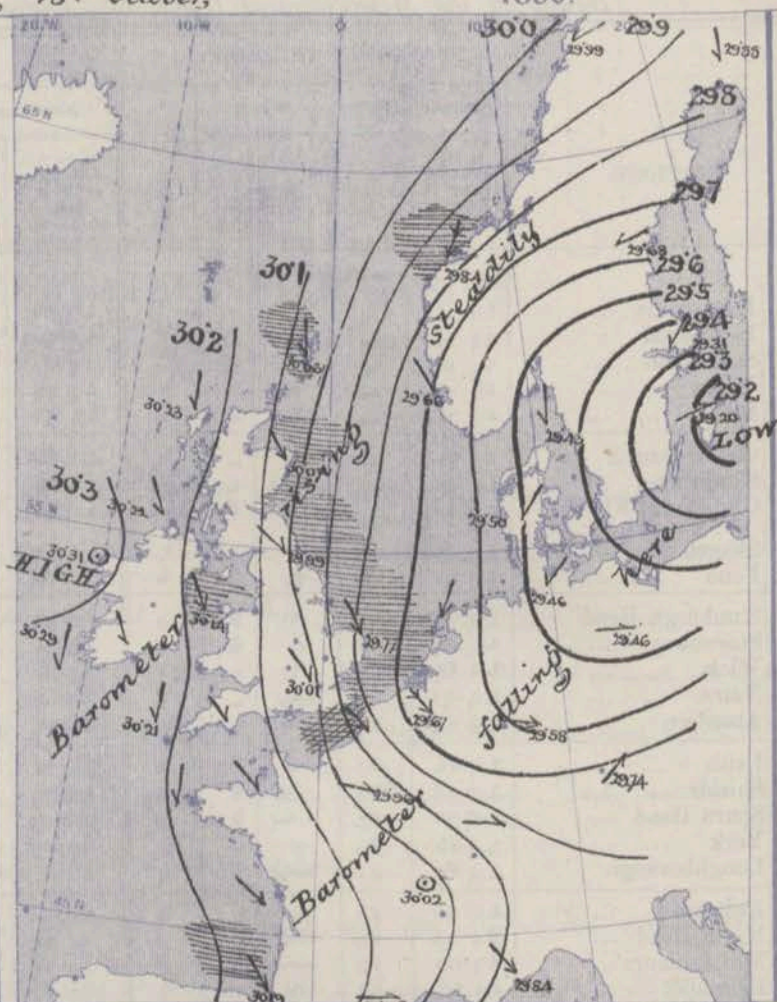
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at 8.0 a.m. for the month of October.

During the 15 Years: 1871—1885.

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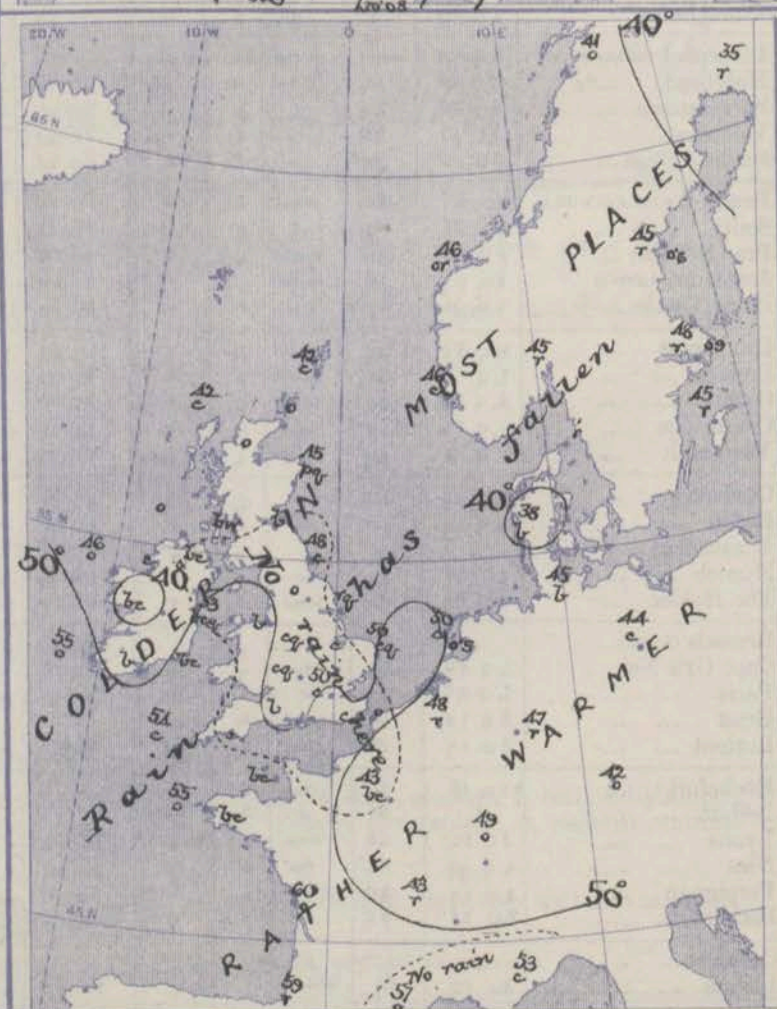
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(For the month of October.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
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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, 30.31 in. at Helmsley, 30.2 in. and upwards, over our extreme western and southwestern coast generally.

Lowest, 29.5 in. and less, in a depression lying over the Falmouth.

Gradient rather steep over the east of England and the North Sea, but slight elsewhere.

Barometer falling a little in France, Germany, and the Netherlands, but rising elsewhere.

TEMPERATURE

Highest, 61° at Lisbon, 60° at Rochefort, 59° at Biarritz, 57° at Perpignan, 56° at Forment, and 55° at Valencia Island and Orist.

Lowest, 33° at Buxton, 35° at Hampton, 38° at Paris, 41° at Bonn, 42° at Hamburg Head, Lonsdale, and Munich, and 43° at Paris and Lyons.

The maxima registered yesterday were below 60° in nearly all parts of the United Kingdom, and as low as 50° at some of our northern stations.

WIND

N or NW over the greater part of Western Europe, but W or SW over Germany and the eastern and central parts of France, and NE in Sweden.

Strong in force on our east and northwest coasts, with a gale at Spun Head and also at Bournemouth.

WEATHER

Fine at most of our western and southwestern stations, but cloudy and unsettled elsewhere, with showers on the east coasts of Great Britain, and rain in Scandinavia as well as at some of the French and German stations.

Showers fell yesterday in many parts of the United Kingdom.

SEA

High at Cape Gris Nez and rough or rather so on several of the more exposed parts of our east and northwest coasts as well as at Biarritz.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are at present no indications of any important change in the weather.

FORECASTS

For the 24 hours ending at NOON on 19th OCT^r 1890.

DISTRICTS.

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

FORECASTS.

N^w and NW^w winds, moderate; fair generally, but local showers

Same as No 5

Same as No 0 to 2.

N^w winds, strong to moderate; fair generally, but local showers.

DISTRICTS.

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

FORECASTS.

N^w winds, moderate or fresh; fair generally.

N^w to Variable breezes; 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.

THER: WIND								THER: WIND							
	BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA
Skudesnaes ...	29.80	44	43	NRW	1	r	+	Holyhead ...	29.98	52	48	NRW	6	c g y	5
Sumburgh Head ...	29.59	49	46	N	4	bc	+	Valencia ...	30.12	59	58	N	4	o d m	4
Stornoway ...	29.89	49	49	N	4	bc	+	Scilly ...	30.13	59	59	NRW	5	6	4
Aberdeen ...	29.67	48	47	ENE	8	c g y	5	Jersey ...	30.07	57	50	NRW	5	c	4
Shields ...	29.73	53	47	NRW	4	c	3	Dungeness ...	29.83	54	54	NRW	5	c	4
Ardrossan ...	29.84	53	49	NRW	5	c	4	London ...	29.87	55	50	NRW	5	o g	*
Mulin Head ...	29.98	50	46	NRW	5	o	4	Yarmouth ...	29.72	51	46	NRW	6	c g y	4
Mullaghmore ...	30.04	50	48	NRW	3	o m	3	Rochefort ...	30.18	61	53	NRW	6	bc	*
Belmullet ...	30.07	51	50	NR	1	o	*								

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

Weather in morning fine over Spain and many parts of France and North Germany, as well as over the northeastern and midland counties of England; dull and unsettled elsewhere, with showers in some parts of our Islands, rain over the northern half of Sweden, Lapland, and in some parts of Poland and the Baltic Provinces. Very unsettled generally. Rain later, mostly in showers, over the greater part of Western Europe.

Temperatures highest, 60° and more, over southwestern ^{and southeastern} Europe and the southern parts of the Mediterranean, lower elsewhere, but not very low in any region. Below 50° over Great Britain and the northern part of Europe as a whole, and as low as 34° at Archangel and 33° at Moscow.

Wind fresh to a gale from the NW^W in the coast of Scotland, England, and the north of France, moderate to fresh from SW in North Germany, and moderate from SE over the Baltic and Finland. Very variable elsewhere, but as a whole S^W at the Russian stations. Not much change later except in east of Scotland.

Barometer highest, 30.0 in. to 30.3 in. over the southwestern parts of our Islands, the Bay of Biscay, Spain, the greater part of France, and the western portions of the Mediterranean; exceeding 30.0 in. over Southern and Central Russia also. Lowest 29.3 in. and less, in a depression over the eastern shores of the North Sea, 29.5 in. and less, in another over Hungary, and below 29.6 in. all over northern and eastern Germany. Gradients steep in many places. Barometer rising slightly over Western Europe later, and shallow secondary disturbances moving southward over Northwestern 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 19th OCT^r 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.			
		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 ...	29.98	28	NE	6	b	29.88	+ .00	22	21	- 13	NE	4	b	*	45	?	0.08	
	Hernösand ...	29.75	30	NNE	8	m	29.88	+ .20	30	27	- 15	NNW	8	b	*	46	?	0.12	
	Stockholm ...	29.41	40	NNE	8	r	29.53	+ .22	36	35	- 13	N	0	*	52	?	0.24		
	Wibby ...	29.17	50	NNE	6	r	29.34	+ .14	43	41	- 2	NNE	10	r	*	52	41	0.75	
	Bodö ...	30.14	36	N	2	b	30.08	+ .09	36	33	- 5	NN	2	c	1	41	32	-	
	Christiansund ...	30.03	45	NNE	8	r	30.12	+ .28	41	37	- 5	NNE	6	bc	4	46	41	0.04	
	Skudesnaes ...	29.77	48	NNW	8	b	29.89	+ .23	46	42	- 0	WSW	2	o	2	52	43	-	
	Christiania Fjord (Færder) ...	29.64	50	N	8	o	29.95	+ .39	44	38	- 1	N	8	b	3	50	43	0.19	
	Skagen (The Seaw.)	29.52	49	NE	7	d	29.75	+ .32	44	40	- 1	NE	6	bc	5	50	43	0.24	
	Faßö ...	29.52	49	NNW	6	o	29.73	+ .23	45	43	+ 7	NNW	6	c	*	52	37	-	
BRITISH ISLANDS.	Sumburgh Head ...	30.14	42	N	5	c	30.18	+ .12	43	41	+ 1	N	3	c	5	46	40	-	
	Stornoway ...	30.20	45	NE	3	o	30.20	+ .07	45	42	+ 3	NE	3	o	3	48	40	-	
	Wick ...	30.22	44	N	3	o	30.26	+ .10	46	44	+ 1	N	3	o	2	47	42	-	
	Nairn ...	30.26	47	WNW	4	c	30.29	+ .10	43	42	- 2	WNW	2	o	2	49	41	-	
	Aberdeen ...	30.18	46	NW	5	oggy	30.23	+ .16	46	43	+ 1	NN	3	o	5	49	44	0.03	
	Leith ...	30.22	46	NNW	2	b	30.25	+ .15	40	37	- 5	NN	1	m	*	55	37	-	
	Shields ...	30.10	47	NNW	4	o	30.17	+ .18	46	41	- 3	WNW	3	o	6	51	44	-	
	Spurn Head ...	30.01	48	N	8	c	30.12	+ .22	50	47	+ 1	N	6	og	6	51	44	0.11	
	York ...	30.10	47	N	3	c	30.10	+ .20	46	42	- 3	NNW	3	o	*	52	44	-	
	Loughborough ...	30.11	48	NNW	4	c	30.22	+ .20	44	41	- 5	NW	3	o	*	55	43	-	
GERMANY & HOLLAND.	Ardrossan ...	30.22	47	L	0	b	30.27	+ .13	39	37	- 10	L	0	o	0	55	35	-	
	Malin Head ...	30.28	50	N	3	o	30.31	+ .09	50	48	- 0	NNW	2	o	1	52	48	-	
	Mullaghmore ...	30.31	51	NN	2	opd	30.34	+ .07	51	51	+ 3	W	1	af	2	53	47	0.01	
	Belmullet ...	30.32	50	ESE	1	omv	30.35	+ .04	55	54	+ 9	NW	1	om	*	55	44	0.04	
	Donaghadee ...	30.23	50	NE	5	c	30.30	+ .13	50	48	- 2	N	4	c	3	55	47	-	
	Liverpool (Bidston) ...	30.19	48	NNW	2	b	30.28	+ .18	42	39	- 9	NNE	1	b	2	53	41	-	
	Holyhead ...	30.21	52	N	5	og	30.29	+ .15	50	47	- 3	NNE	2	bc	2	55	49	-	
	Parsonstown ...	30.30	57	L	0	o	30.35	+ .06	48	47	+ 15	L	0	o	*	54	32	0.01	
	Valencia ...	30.35	55	L	0	af	30.39	+ .10	57	56	+ 2	NNW	2	og	3	58	53	0.03	
	Roche's Point ...	30.29	55	NNW	3	bc	30.35	+ .09	54	51	+ 6	NNW	2	c	3	58	48	-	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.23	52	N	3	c	30.29	+ .05	58	48	- 1	N	3	bc	2	56	48	-	
	Scilly ...	30.24	54	NNE	3	bc	30.31	+ .10	54	52	- 0	NNE	3	bc	2	55	49	-	
	Prawle Point ...	30.17	51	NNW	3	b	30.20	+ .16	48	45	- 4	NNW	2	b	1	63	40	-	
	Jersey (St. Aubin's) ...	30.13	50	NN	3	cm	30.27	+ .17	50	45	- 4	NNW	4	cm	3	60	48	-	
	Hurst Castle ...	30.14	49	NNW	3	b	30.25	+ .18	40	38	- 6	NNW	4	c	2	58	38	-	
	Dungeness ...	29.99	50	NNW	5	c	30.10	+ .21	47	45	- 3	N	4	o	3	54	43	-	
	London ...	30.17	50	NN	4	a	30.18	+ .17	46	41	- 4	NN	3	o	*	54	44	-	
	Oxford ...	30.14	45	NN	4	c	30.24	+ .21	42	39	- 6	NN	2	o	*	53	42	-	
	Cambridge ...	30.07	48	N	3	b	30.18	+ .23	47	43	- 3	N	2	o	*	53	43	-	
	Yarmouth ...	29.89	49	NNW	5	cpq	30.03	+ .26	48	46	- 2	N	4	og	5	54	45	0.09	
PENIN. & S.W.	Cuxhaven ...	29.50	47	NNW	3	t	29.74	+ .28	47	46	+ 2	N	6	bc	*	51	46	0.24	
	Berlin ...	29.49	43	WNW	3	bc	29.52	+ .06	46	45	+ 2	WNW	3	r	*	48	41	0.12	
	Wiesbaden ...	*	*	*	*	*	29.73	+ .15	51	49	+ 4	NN	2	r	*	50	45	0.04	
	Munich ...	29.73	39	W	5	o	29.80	+ .06	40	39	- 2	SW	6	o	*	46	36	0.39	
	The Helder ...	29.71	53	N	6	r	29.88	+ .22	54	51	+ 4	N	4	c	4	54	50	0.22	
	Brussels (9 a.m.)	*	*	*	*	*	29.94	+ .27	49	48	+ 1	NN	4	o	*	53	45	1.18	
	Cape Gris Nez	29.99	48	NN	4	o	30.08	+ .20	48	46	+ 3	NN	7	o	7	55	46	-	
	Paris ...	30.00	50	NNW	3	bc	30.08	+ .12	46	43	+ 3	NN	3	c	*	?	43	-	
	Brest ...	30.20	55	N	4	o	30.18	?	49	47	- 6	NE	1	bc	3	70	46	-	
	Lorient ...	30.20	55	NNW	4	bc	30.23	+ .12	52	46	- 4	N	3	c	3	59	50	-	
PENIN. & S.W.	Rochefort ...	30.12	57	NNW	4	b	30.17	?	51	47	- 4	N	5	o	2	63	45	-	
	Belfort ...	?	51	W	1	r	?	?	46	45	- 3	W	1	r	*	60	38	0.22	
	Lyons ...	29.98	48	NN	2	c	30.04	+ .02	44	41	+ 1	NNW	2	c	*	54	49	0.12	
	Nice ...	29.67	59	NN	3	bc	29.72	+ .12	50	44	- 3	N	4	bc	2	64	48	-	
	Perpignan ...	29.97	61	NN	4	b	30.07	+ .01	54	46	- 3	NN	4	b	*	68	52	-	
	Biarritz ...	30.13	62	NNE	6	r	30.17	+ .02	54	50	- 5	SE	3	o	3	64	52	0.35	
	Corunna ...	*	*	*	*	*	30.25	- .09	60	57	- 3	NE	4	b	5	66	52	-	
	Lisbon ...	30.11	65	NN	2	b	30.09	- .09	58	57	- 3	NNE	3	b	5	73	57	-	

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

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

WEATHER CHARTS

for 8 a.m. on

Sunday 19th October,

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:

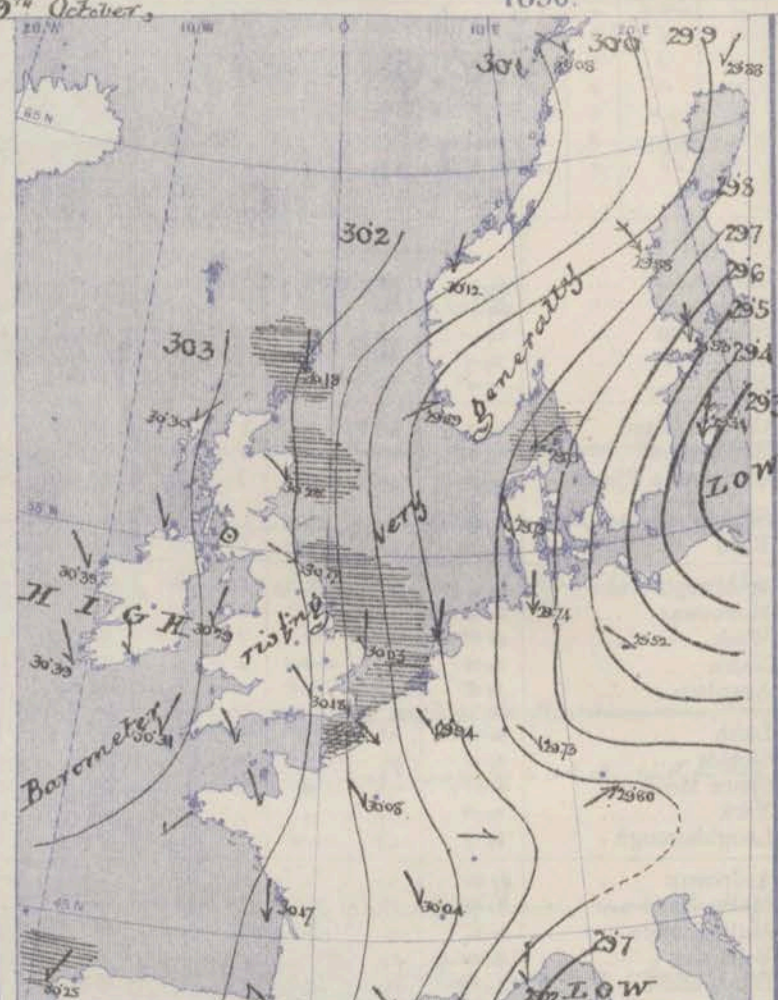
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.708
Stornoway	29.735
Wick	29.745
Nairn	29.761
Aberdeen	29.774
Leith	29.804
Shields	29.835
York	29.872
Loughborough	29.891
Ardrossan	29.813
Donaghadee	29.832
Holyhead	29.853
Liverpool	29.864
Parsonstown	29.831
Valencia	29.873
Roche's Point	29.870
Pembroke	29.868
Seilly	29.804
Jersey	29.904
Hurst Castle	29.907
Dover	29.909
LONDON	29.911
Oxford	29.910
Cambridge	29.900
Yarmouth	29.886



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.

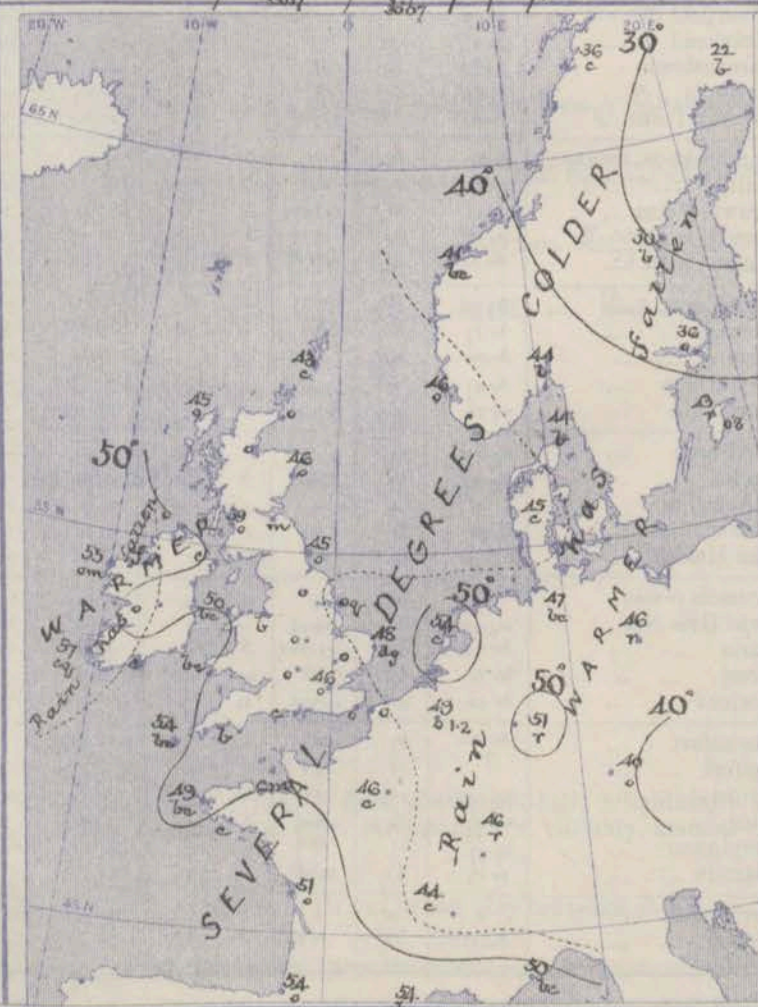
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of October.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	49.7	41.6	46.0	44.3	4.33
Stornoway	50.5	39.5	45.5	44.1	4.94
Wick.....	51.6	40.1	46.1	44.3	2.94
Nairn.....	51.6	40.6	44.5	42.6	2.38
Aberdeen.....	52.3	41.0	45.5	43.5	2.88
Leith.....	54.7	41.5	46.5	44.7	1.94
Shields.....	53.0	42.8	47.1	45.4	2.46
York.....	54.8	41.0	45.9	44.5	2.64
Loughborough.....	55.3	41.4	46.4	45.0	2.98
Ardrossan.....	53.5	43.6	47.6	45.6	4.31
Donaghadee.....	53.2	43.3	47.7	46.5	3.35
Holyhead.....	54.5	47.0	50.2	48.2	4.53
Liverpool.....	53.0	44.6	47.8	45.8	3.62
Parsonstown.....	54.7	41.1	45.4	44.7	3.27
Valencia.....	56.6	46.5	51.3	49.1	6.09
Roche's Point.....	55.8	45.9	50.2	48.4	4.17
Pembroke.....	54.8	48.0	51.2	49.1	4.13
Seilly.....	56.6	50.3	53.8	51.7	3.84
Jersey.....	58.1	49.2	53.6	51.1	4.34
Hurst Castle.....	57.1	46.0	51.4	49.6	3.24
Dover.....	55.8	47.0	50.7	48.7	3.28
LONDON.....	56.6	43.2	48.0	46.4	2.74
Oxford.....	55.3	42.5	46.7	45.3	2.72
Cambridge.....	56.4	41.2	46.4	45.4	2.36
Yarmouth.....	54.3	44.8	49.2	47.9	2.97

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, in a large anticyclone extending from the Atlantic across Ireland, the southwest of England and the extreme west of Scotland.
 Lowest, 29.4 ins. and less, in a deep depression lying over the Baltic; 29.8 ins. and less, over the Gulf of Genoa.
 Gradients rather steep over the Baltic and south of Sweden, and moderate over the North Sea but slight elsewhere.

Barometer rising generally.

TEMPERATURE

Highest, 60° at Genua, 58° at Lisbon, 57° at Valencia, 55° at Brimmet, and 54° at Rochester, Villy, Biaritz, and Paphos.
 Lowest, 22° at Haparanda, 30° at Helsingfors, 36° at Stockholm, 39° at Anderson, 40° at Leik, and Munich and 41° at Christiansund.
 The maxima registered over our islands did not exceed 55° at any of the southwestern stations, and were below 50° in the north of Scotland.

WIND

Chiefly N., light or moderate in strength over the greater part of the United Kingdom and France, but strong in Denmark, and blowing with the force of a fresh to whole gale over Sweden and the Christiania coast.
 In Germany, however, the wind draws into W. and SW, while over Spain it is NE.

WEATHER

Cloudy or overcast over the greater part of our area, with rain over the Baltic, Germany, and the coast of France.
 Fine in the west and southwest of England, as well as in Denmark, the north of Scandinavia and the south of France.
 Showers fell yesterday in various parts of the United Kingdom, and considerable amounts of rain at some of the Continental stations.
 Thunder occurred at Lushan.

SEA

High at Cape Gie Rey, rough off the east of England, and rather rough off the north and east of Scotland, as well as at Rapa, Comuna and Lisbon.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 20 OCT 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

WARNINGS

FORECASTS.

None Issued

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 ...	30.67	52	47	NNW	6	bc	3	Holyhead ...	30.18	52	49	N	5	c	4
Sumburgh Head ...	30.15	44	41	N	5	o	6	Valencia ...	30.92	59	44	WNW	2	o	1
Stornoway ...	30.28	48	44	NE	3	o	3	Scilly ...	30.23	55	52	NNW	3	c	2
Aberdeen ...	30.15	47	43	NNW	5	cpq	6	Jersey ...	30.14	58	52	NNW	4	bc	3
Shields ...	30.05	51	46	NNW	5	c	6	Dungeness ...	29.95	53	51	N	5	c	4
Ardrossan ...	30.18	54	48	N	2	c	1	London ...	30.03	53	49	NNW	5	cpq	5
Malin Head ...	30.24	52	48	N	3	o	2	Yarmouth ...	29.87	52	49	NNW	6	cpq	5
Mullaghmore ...	30.29	53	50	NNW	3	o	2	Rochefort ...	30.18	60	53	NNW	4	bc	2
Belmullet ...	30.32	51	49	SE	1	o	*								

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

Weather very dull unsettled and raining over the Baltic and Central Europe, as well as at Constantinople, cloudy and squally over Great Britain, the Netherlands, the Channel, and north of France, fine over Western France, Spain, and on the southern shores of the Mediterranean only. Rainfall considerable during subsequent twenty-four hours over all but the most western countries, slight showers in some parts of our Islands, but none in the south and south-west.

Temperature in morning exceeding 60° on the southern shores of the Mediterranean and on the Portuguese coast only, and exceeding 50° in the south-western parts of our Islands and France as well as at many coast stations in southern Europe. As high as 43° at Petersburg, and 47° to 48° at several other Russian stations ~~stations~~ and over Western Europe. Lowest 33° at Plessetsk, 34° at Archangel, 35° at Haparanda, 38° at Umeå, 39° at Narvik, 41° at Åre, 42° at Sumburgh Head and also at Munich, Cracow, and Buda Pesth. Rising later to between 50° and 60° over the greater part of the United Kingdom to 63° at Harwich, to between 60° and 70° in the south of France to 70° and more in the south of Italy and some parts of Western Europe.

Wind N to NW over Western Europe—moderate to strong in force and blowing a gale at some of our eastern stations; W over Germany and Austria, E and NE over Northern Europe, NW to N over the Mediterranean. The W wind over the Baltic, and the NE wind over Northern Europe increasing in force later, but the N winds in our Islands moderating.

Barometer—highest 30.1 ins. to 30.3 ins. over the western parts of the British Islands, France and the Spanish Peninsula, and exceeding 30.0 ins. over Central and Eastern Russia, much lower over Northern and Central Europe; lowest 29.2 ins. and less, in a depression over the Baltic, 29.4 ins. and less, in another near Münster, 29.3 ins. and less, over the Gulf of Genoa and Central Italy. Rising in our Islands later, but gradient for N winds becoming steep over the North Sea.

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 20th October.

1890.

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

Issued by the Meteorological Office, 65, Victoria Street, London. R. H. SCOTT, Secretary.																	
YESTERDAY EVENING.																	
8 A.M. TO DAY.																	
PAST 24 HOURS.																	
STATIONS.	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.		WIND.		Weather.	Sea. (0 to 3.)	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	24	N	2	c	30.04	+16	21	20	-1	SW	2	f	*	32	18	—
Hernösand ...	29.95	33	N	4	c	30.09	+21	34	28	+4	N	4	bc	*	43	28	—
Stockholm ...	29.83	34	N	6	c	29.96	+43	30	29	-6	NNW	4	o	*	48	?	—
Wishby ...	29.70	39	WSE	8	c	29.90	+56	37	36	-6	N	7	c	*	43	34	0.08
Bodö ...	30.06	35	2	0	c	30.17	+09	33	32	-3	SESE	1	c	1	36	30	—
Christiansund ...	30.16	39	NNW	4	o	30.21	+09	37	36	-4	ESE	2	bc	2	43	36	0.12
Skudesnaes ...	30.07	46	2	0	c	30.17	+28	43	37	-3	SE	6	o	4	53	41	0.43
Christiania Fjord (Færdar) ...	30.04	42	N	6	c	30.13	+28	40	35	-4	NNW	4	c	1	43	39	—
Skagen (The Scaw) ...	?	40	NNE	3	c	30.12	+37	40	35	-4	NNE	1	c	2	45	37	—
Faro ...	30.04	33	NNW	4	c	30.13	+40	34	33	-11	NNW	2	c	*	48	36	—
BRITISH ISLANDS.																	
Sumburgh Head ...	30.24	43	N	1	c	30.20	+02	44	41	+1	2	o	3	48	40	—	
Stornoway ...	30.27	49	SW	3	o	30.16	-14	52	52	+7	SW	3	T	3	52	43	0.51
Wick ...	30.27	45	N	2	o	30.21	-05	44	43	-2	2	1	d	2	50	40	0.15
Nairn ...	30.29	47	N	1	o	30.20	-09	44	44	+1	ESE	1	T	1	48	42	0.14
Aberdeen ...	30.29	45	NNW	2	o	30.24	+01	42	42	-4	NW	1	op	4	48	42	0.07
Leith ...	30.28	49	N	1	c	30.24	-01	43	42	+3	2	o	Tm	*	55	39	0.05
Shields ...	30.22	49	NW	3	o	30.23	+06	44	43	-1	SW	1	o	4	49	42	0.01
Spurn Head ...	30.17	58	N	6	og	30.22	+10	47	45	-3	NW	4	om	4	51	46	—
York ...	30.23	48	N	2	o	30.28	+08	44	42	-2	NNW	1	T	*	50	43	0.02
Loughborough ...	30.25	47	NNW	1	c	30.30	+08	44	41	0	NNW	1	og	*	50	42	—
Ardrossan ...	30.29	49	2	0	c	30.22	-05	49	49	+10	N	2	ow	1	54	38	—
Malin Head ...	30.33	52	2	0	om	30.28	-03	52	51	+2	NW	3	om	1	53	50	0.04
Mullaghmore ...	30.34	53	NNW	1	opm	30.35	+01	54	54	+3	NNW	1	om	2	56	51	0.03
Belmullet ...	30.37	58	NNW	1	o	30.37	+02	54	54	-1	NNW	1	o	*	56	53	0.04
Donaghadee ...	30.30	52	NNNE	5	c	30.26	-04	54	54	+4	NW	3	c	2	55	49	0.01
Liverpool (Bidston) ...	30.20	46	NNW	1	c	30.30	+02	46	42	+4	SW	2	o	2	51	42	—
Holyhead ...	30.29	52	N	4	c g	30.30	+01	50	50	0	2	o	d m	0	55	43	0.03
Parsonstown ...	30.33	58	2	0	o g	30.35	0.0	52	51	+4	2	0	o	*	56	42	0.03
Valencia ...	30.40	56	NNW	2	c	30.39	0.0	56	55	-1	NW	1	o	1	59	54	—
Roche's Point ...	30.23	57	NNW	3	c	30.35	0.0	55	52	+1	N	3	c	3	60	52	—
Pembroke (St. Ann's Hd.) ...	30.30	50	N	2	bc	30.34	+05	48	46	-2	NNE	2	og	1	55	46	—
Scilly ...	30.31	54	N	3	c	30.32	+01	55	54	+1	E	1	c	1	55	50	—
Prawle Point ...	30.23	48	NNE	1	c	30.34	+04	46	43	-2	N	1	c	1	59	40	—
Jersey (St. Aubin's) ...	30.26	50	NW	3	cm	30.30	+03	51	46	+1	N	3	cm	3	54	48	—
Hurst Castle ...	30.25	50	NNW	2	mc	30.31	+06	40	39	0	N	3	bc	1	57	39	—
Dungeness ...	30.13	49	N	4	o	30.21	+11	47	45	0	N	4	c	3	50	44	—
London ...	30.21	49	NNW	3	o	30.27	+09	46	43	0	NNE	2	og	*	50	45	—
Oxford ...	30.28	44	NW	2	c	30.30	+06	43	40	+1	NW	1	og	*	50	42	—
Cambridge ...	30.23	47	NW	2	o	30.27	+09	46	43	-1	NW	1	o	*	53	44	—
Yarmouth ...	30.08	49	N	5	og g	30.16	+13	49	47	+1	NNW	3	og	4	50	46	—
GERMANY & HOLLAND.																	
Cuxhaven ...	29.87	42	NNE	5	bc	30.10	+36	40	36	-7	NNE	3	c	*	49	40	—
Berlin ...	29.81	44	N	3	T	29.99	+47	40	38	-6	NNW	3	o	*	48	39	0.08
Wiesbaden ...	29.86	40	2	0	*	30.04	+31	44	41	-7	2	0	c	*	52	41	0.08
Munich ...	29.86	40	2	0	T	30.02	+12	41	41	+1	NW	3	T	*	43	39	0.08
The Helder ...	30.01	52	NNE	1	T	30.13	+25	46	44	-8	E	1	c	1	55	46	0.32
FRANCE AND BELGIUM.																	
Brussels (3 a.m.) ...	30.08	48	N	6	o	30.13	+19	47	46	-2	NNE	1	T	*	53	45	0.12
Cape Gris Nez ...	30.13	48	NW	3	o	30.20	+12	49	46	+1	NNE	6	o	6	54	46	—
Paris ...	30.26	51	NNE	1	bc	30.17	+09	46	44	0	NW	2	c	*	53	?	—
Brest ...	30.26	51	NNE	1	bc	30.17	+09	46	44	-1	NNE	1	c	1	63	45	—
Lorient ...	30.25	54	NNE	3	bc	30.29	+06	49	46	-3	NNE	2	o	2	57	46	—
PENIN. SULA.																	
Corunna ...	29.99	68	NNW	4	c	30.01	-08	59	49	+1	NNE	5	c	2	75	?	—
Lisbon ...	29.99	68	NNW	4	c	30.01	-08	59	49	+1	NNE	5	c	2	75	?	—

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, 20th October,

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.

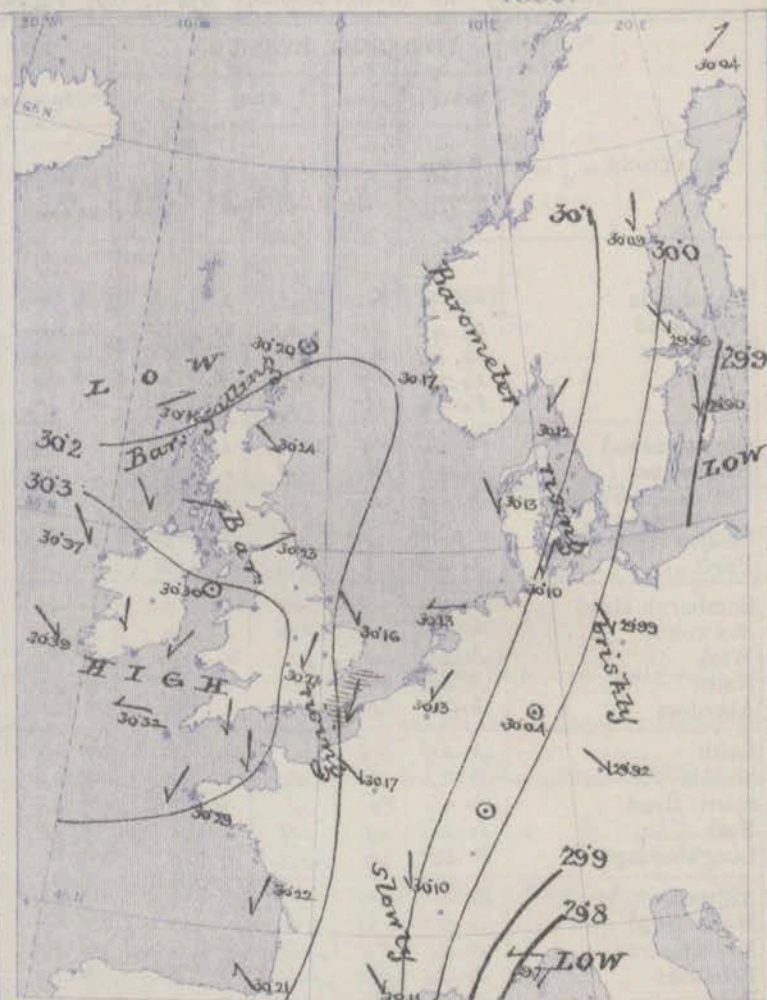
SEA DISTURBANCE—Where considerable, is shown thus:

■ = Rough. ■ = High.

MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.708
Stornoway	29.735
Wick	29.745
Nairn	29.761
Aberdeen	29.774
Leith	29.804
Shields	29.825
York	29.872
Loughborough	29.891
Ardrossan	29.813
Donaghadee	29.832
Holyhead	29.853
Liverpool	29.864
Parsonstown	29.881
Valencia	29.870
Roche's Point	29.870
Pembroke	29.868
Silly	29.894
Jersey	29.904
Hurst Castle	29.907
Dover	29.909
LONDON	29.911
Oxford	29.910
Cambridge	29.900
Yarmouth	29.936



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.

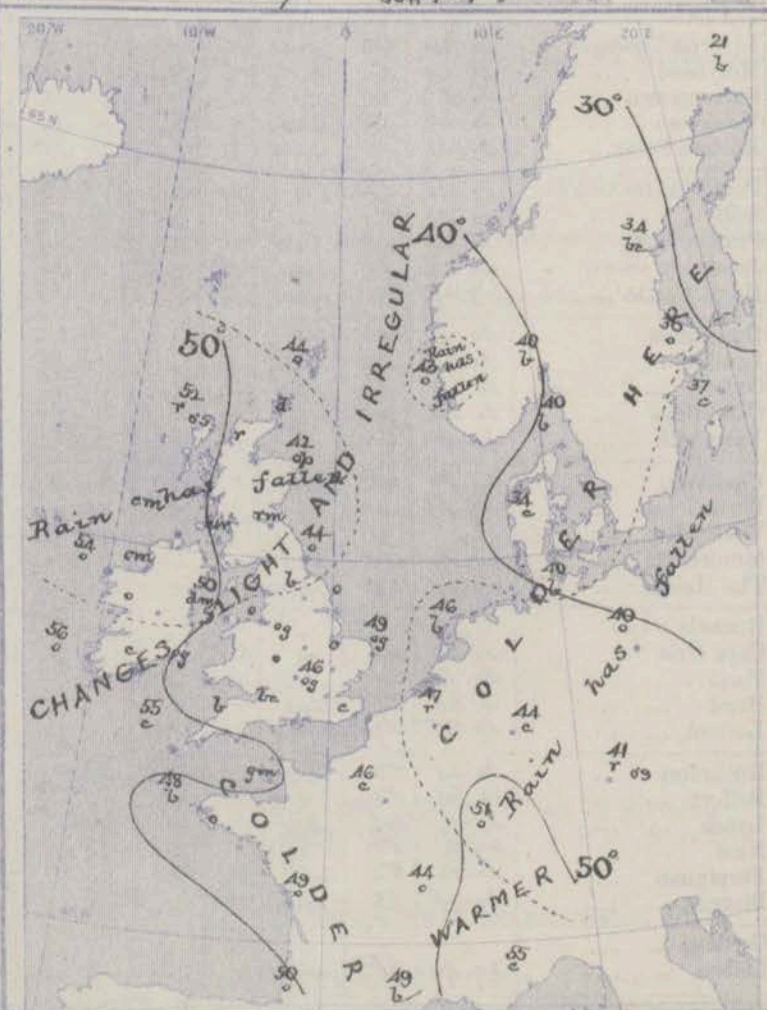
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of October.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	BEAUFORT Scale	Wind	
Sumburgh Head	49.7	41.6	46.0	44.3	4.33
Stornoway	50.5	39.5	45.3	44.1	4.94
Wick	51.6	40.1	46.1	44.3	2.94
Nairn	51.6	40.6	44.5	42.6	2.38
Aberdeen	52.3	41.0	45.5	43.5	2.88
Leith	54.7	41.5	46.5	44.7	1.94
Shields	53.0	42.8	47.1	45.4	2.46
York	54.8	41.0	45.9	44.5	2.64
Loughborough	55.3	41.4	46.4	45.0	2.98
Ardrossan	53.5	43.6	47.5	45.0	4.31
Donaghadee	53.2	43.3	47.7	46.5	3.35
Holyhead	54.5	47.0	50.2	48.2	4.53
Liverpool	53.6	44.6	47.8	45.8	3.52
Parsonstown	54.7	41.1	48.4	44.7	3.27
Valencia	50.6	46.5	51.3	49.1	6.09
Roche's Point	55.8	45.9	50.2	48.4	4.13
Pembroke	54.8	48.0	51.2	49.1	3.84
Silly	56.6	50.3	53.8	51.7	4.34
Jersey	58.1	49.2	53.6	51.1	3.24
Hurst Castle	57.1	46.6	51.4	49.6	3.28
Dover	56.8	47.0	50.7	48.7	2.74
LONDON	56.6	43.2	48.0	46.4	2.72
Oxford	55.3	42.5	46.7	45.3	2.36
Cambridge	56.4	41.2	46.4	45.4	2.07
Yarmouth	54.9	44.8	49.2	47.2	

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, 30.3 ins. and upwards, in an anticyclone lying over Ireland, the western parts of England and the northwest of France.
 Lowest, 29.8 ins. and less, in a depression lying over the Gulf of Genoa; 29.9 ins. and less, over the Baltic.
 Gradient slight generally, but rather steep over the southeast of France.
 Barometer falling in Scotland and also in the southeast of France, but rising elsewhere.

TEMPERATURE

Highest, 59° at Linton, 56° at Valencia Island, 55° at Rocher Point, Scilly, and Nice, and 54° at Balmuccia, Mullaghmore and Donaghadee.
 Lowest, 21° at Kaparanda, 20° at Stockholm, 34° at Helsingfors and Vasa, 37° at Narvik, and 40° at Luleå, Skagen, Cuxhaven, and Berlin.
 The maxima registered yesterday were below 55° at almost all our more northern and eastern stations.

WIND

Light from the Wst or SWst in Scotland.
 Light or moderate from the NWst or Nst in nearly all other parts of Western Europe, but Est at some of the southern French stations.

WEATHER

Fine in the extreme south of England, as well as in Sweden and Denmark.
 Cloudy or overcast elsewhere, with rain in Scotland and also at Wiesbaden.
 Showers fell yesterday at several of our northern stations, and considerable amounts of rain in some parts of Holland, Germany and the east of France.

SEA

Moderate to smooth generally, but rough at Cape Fin Niz.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression which is approaching the north of Scotland is apparently of no great depth; but the system is inclined to spread southwards, and the rainy weather now prevailing in Scotland is, therefore, likely to extend to the northern and eastern parts of England.

FORECASTS

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

DISTRICTS.

FORECASTS.

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

Light breezes, chiefly Wst; dull, rain at times.

NWst winds, light; dull, some mist or fog, rain later.

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

Light Variable airs; cloudy generally.
 NWst winds, freshening; cloudy, some showers.

Same as No 8

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

THER: WIND								THER: WIND							
BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA	
Skudesnaes ...	29.96	53	46	E	2	C	2	Holyhead ...	30.29	53	49	N	3	C	2
Sumburgh Head								Valencia ...							
Stornoway ...	30.30	51	48	2	0	0	2	Scilly ...							
Aberdeen ...								Jersey ...	30.26	54	47	NW	3	C	2
Shields ...								Dungeness ...	30.13	50	48	N	4	0	3
Ardrossan ...								London ...							*
Malin Head ...	30.32	52	50	NW	1	0	0	Yarmouth ...							
Mullaghmore ...								Rochefort ...	30.21	57	50	N	5	C	?
Belmullet ...	30.37	56	55	NNW	1	0m	*								

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

Weather still dull, rainy and unsettled over the Baltic, dull over central, southeastern and southern Europe, with rain at times; fine and bright over Lapland and the north of Sweden, fair as a whole over the British Islands, France and Spain, but overcast in many places. A good deal of rain later over Germany and some of the eastern shores of the North Sea, and slight quantities on our own north and northwest coasts; fair but dull over England, the south of Ireland and west of France.

Temperature risen decidedly in Ireland, fallen as a whole elsewhere - rapidly over Sweden and above 60° on the Irish coasts and at Scilly; lower elsewhere, and below 40° all over Russia. Lowest of all 22° at Haparanda and Uleaborg, 30° at Hernoönd, 33° at Archangel, and 36° at Stockholm and Moscow, not touching 60° at any of our own stations later, and falling short of 50° over the greater part of Germany, but slightly exceeding 60° in the south of France, and touching 70° at Lisbon.

Wind blowing a gale from N^W over Sweden, and strong from the same quarter over north Germany; moderate to light from N^W (but variable) over the British Islands and France, strong NW^W over the northern parts of the Baltic. W^W to SW^W over central and eastern Germany, S^W light in Russia. No important change reported later.

Barometer highest 30.1 ins. to 30.4 ins. over the British Islands, the Bay of Biscay, Spain, the western parts of France, 29.9 ins. to 30.1 ins. over the southeast of Russia, much lower over the Baltic, central and S^W Europe - lowest of all being 29.1 ins. and less in a depression over the Baltic Provinces of Russia, and 29.6 ins. and less in another over the W. of Italy. Rising very slowly over the British Islands later, but beginning to fall a little in the Hebrides and N. of Scotland.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 12TH TO 18TH OCT. 1890.

The weather of the past week may be divided into two periods - the first anticyclonic, with light winds, foggy weather and high day but low night temperatures; the second, cyclonic with strong winds or gales from between W. and NW^W, showery weather and temperature readings not differing greatly from the average.

The anticyclone which prevailed during the first period (lasting from the 12th to the 14th) had its central portion over France and Germany but the margin of the system extended over nearly the whole of Ireland and England, the wind in those countries being variable at first but afterwards light from SW and W. Thick fogs prevailed at many of the English stations, and although the maximum readings of the thermometer usually exceeded 65°, the night minima registered sharp frosts in all the more inland districts. In Scotland the weather was influenced mainly by some large depression systems which were travelling from the Atlantic across the northern parts of Scandinavia.

The second period commenced on the night of the 14th when the centre of a large and rather deep depression advanced to the north of Scotland. During the remainder of the week this system travelled slowly in an east-southeasterly direction across the North Sea and the south of Scandinavia to the Baltic, its progress being marked by strong winds and gales in nearly all parts of the Kingdom from the W^W, and afterwards from the NW^W. Rain occurred in all districts and thunder and lightning were reported at several English stations.

In the rear of the depression some subsidiary disturbances moved southeasterly across our islands and occasioned squally showery weather, but at the close of the week these were all passing away, the barometer was rising generally and an anticyclone was advancing over our west 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).

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DAILY WEATHER REPORT.

for TUESDAY 21ST OCTOBER, 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.		
	Reading at 32° F. and Sea Level.	Dry.	Dir.	Force (0 to 12.)	Weather.	Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force (0 to 12.)	Weather.	Sec. (0 to 12.)		Max.	Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ...	30.19	21	N	2	b	30.25	+2.1	23	21	+2	N	2	bc		23	16	—
	Hörnösand ...	30.25	32	N	4	bc	30.33	+2.4	23	25	-6	N	2	b		33	27	—
	Stockholm ...	30.13	31	N	4	o	30.23	+2.7	30	28	0	NW	4	bc		36	28	0.04
	Visby ...	30.07	36	N	8	o	30.14	+2.4	36	31	-1	N	8	c		37	2	0.12
	Bodö ...	30.17	33	2	0	b	30.23	+0.6	32	31	-1	ESE	2	s	2	36	30	—
	Christiansund ...	30.30	38	ESE	2	bc	30.33	+1.2	39	36	+2	ESE	2	bc	3	41	37	—
	Skudeanæs ...	30.28	39	2	0	b	30.39	+2.2	43	39	0	ESE	2	c	2	41	37	—
	Christiania Fjord (Frier)	30.26	42	N	2	b	30.38	+2.5	36	33	-4	NW	3	b	2	43	36	—
	Skagen (The Seaw)	30.25	40	NE	2	b	30.34	+2.2	39	33	-1	NE	3	b	3	43	37	—
	Faro ...	30.28	35	2	0	b	30.37	+2.4	30	30	-4	2	0	b		43	30	—
BRITISH ISLANDS.	Sumburgh Head ...	30.22	44	E	1	c	30.27	+0.7	42	40	-2	2	0	c	3	47	40	—
	Stornoway ...	30.17	53	W	4	o	30.25	+0.9	53	52	+1	NW	4	o	4	55	50	0.34
	Wick ...	30.24	45	S	3	d	30.27	+0.6	47	46	+3	S	3	o	2	48	43	0.30
	Nairn ...	30.18	47	2	0	d	30.25	+0.5	49	49	+5	E	1	d	1	50	43	0.25
	Aberdeen ...	30.22	45	ESE	1	o	30.29	+0.5	46	46	+4	ESE	2	odm	3	46	42	0.47
	Leith ...	30.19	47	NE	1	p	30.27	+0.3	48	48	+5	2	0	m		49	42	0.04
	Shields ...	30.20	47	2	0	d	30.27	+0.4	48	47	+4	2	0	om	3	48	43	0.33
	Spurn Head ...	30.21	48	NW	3	o	30.28	+0.6	49	47	+2	N	1	cp		49	45	0.08
	York ...	30.23	47	ESE	1	o	30.30	+0.2	46	46	+2	2	0	p		52	43	0.22
	Loughborough ...	30.26	46	W	1	o	30.30	0.0	46	46	+2	ESE	1	ognd		49	43	0.10
GERMANY & HOLLAND.	Arrossan ...	30.19	54	W	4	bc	30.27	+0.5	53	51	+4	2	0	bur	0	55	48	—
	Malin Head ...	30.30	54	NW	3	o	30.32	+0.4	52	51	0	NW	3	of	2	55	51	0.03
	Mullaghmore ...	30.35	55	W	2	o	30.37	+0.2	53	51	-1	NW	3	c	2	56	51	0.02
	Belmullet ...	30.38	54	N	1	o	30.39	+0.2	52	51	-2	NW	2	o		57	50	—
	Donaghadee ...	30.27	54	N	3	bc	30.33	+0.7	53	51	-1	NW	3	c	1	59	52	—
	Liverpool (Biston)	30.25	50	ESE	1	o	30.29	-0.1	51	51	+5	N	1	om	2	53	46	0.33
	Holyhead ...	30.28	56	NW	3	c	30.30	0.0	54	52	+4	N	5	og	4	57	50	0.03
	Parsonstown ...	30.35	55	2	0	o	30.39	+0.4	50	48	-2	2	0	c		58	49	—
	Valencia ...	30.39	57	NW	1	o	30.41	+0.2	56	55	0	2	0	om	1	59	54	—
	Roche's Point ...	30.35	57	N	1	o	30.39	+0.4	54	51	-1	N	1	o	2	60	53	—
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.32	56	NW	2	c	30.34	0.0	53	52	+5	NW	3	ogp	2	57	47	—
	Scilly ...	30.30	56	NW	3	bc	30.32	0.0	56	53	+1	NNE	3	og	1	58	49	—
	Prawle Point ...	30.31	52	NW	2	o	30.31	-0.3	53	52	+7	NW	2	og	1	59	45	—
	Jersey (St. Aubin's)	30.30	52	N	2	cgm	30.27	-0.3	56	55	+5	NW	1	clm	0	56	50	—
	Hurst Castle ...	30.29	50	NW	3	c	30.26	-0.5	53	52	+13	N	4	cmd	2	56	40	—
	Dungeness ...	30.22	48	N	2	bc	30.24	+0.3	48	47	+1	N	1	o	0	53	44	0.01
	London ...	30.26	48	NW	1	ogm	30.25	-0.2	45	45	-1	ESE	1	ogft		52	44	0.08
	Oxford ...	30.27	45	SW	1	o	30.28	-0.2	46	46	+3	NE	1	og		50	48	0.02
	Cambridge ...	30.25	49	N	1	o	30.30	+0.3	46	46	0	NW	1	o		52	43	0.14
	Yarmouth ...	30.19	48	NW	3	od	30.24	+0.5	46	45	-3	2	0	cf	4	52	42	0.07
GERMANY & HOLLAND.	Cuxhaven ...	30.19	41	NE	3	c	30.34	+2.4	41	38	+1	ESE	3	b		49	40	—
	Berlin ...																	
	Wiesbaden ...																	
	Munich ...																	
	The Helder ...	30.21	44	SE	1	c	30.33	+2.0	39	38	-7	SE	1	bc	1	48	37	—
	Brussels (St. Ann's)						30.30	+1.7	38	37	-9	SE	2	c		52	36	—
	Cape Gris Nez ...	30.21	50	N	4	o	30.23	+0.3	48	46	-1	N	1	o	1	54	46	0.08
	Paris ...	30.23	50	NW	3	o	30.27	+1.0	44	43	-2	2	0	o		55	42	—
	Brest ...	30.30	52	E	1	b	30.25	?	53	51	+5	NW	1	c	2	61	45	—
	Lorient ...	30.31	53	NNE	2	o	30.31	+0.2	53	50	+4	NW	1	m	2	57	48	—
FRANCE AND BELGIUM.	Rochefort ...	30.25	51	NNE	3	b	30.28	+0.6	44	43	-5	ESE	3	b	?	59	37	—
	Belfort ...	29.90	51	W	1	o	29.94	?	50	45	-1	W	1	o		61	44	—
	Lyons ...	30.16	46	W	3	b	30.23	+1.3	42	42	-2	NNE	1	bc		51	42	0.04
	Nice ...	29.86	55	SW	3	bc	29.95	+1.8	50	45	-5	E	3	b	2	64	48	—
	Perpignan ...	30.12	51	NW	5	b	30.20	+0.9	52	44	+3	NW	3	b		57	48	—
	Biarritz ...	30.24	52	E	2	o	30.27	+0.6	45	42	-5	SE	3	b	2	55	43	—
	Corunna ...																	
	Lisbon ...	29.98	68	NNE	5	b	30.04	+0.3	57	49	-2	NE	4	b	2	73	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, 21st October.

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:

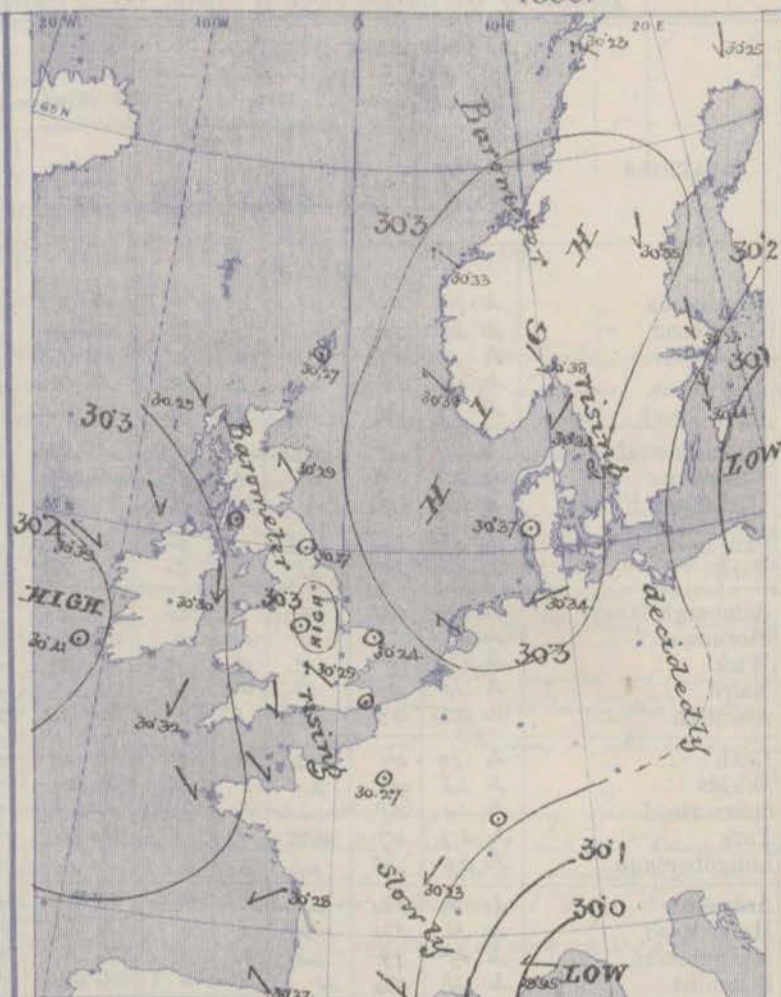
■ = Rough. ■ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.708
Stornoway	29.735
Wick	29.745
Nairn	29.761
Aberdeen	29.774
Leith	29.804
Shields	29.835
York	29.872
Loughborough	29.891
Ardrossan	29.813
Donaghadee	29.832
Holyhead	29.853
Liverpool	29.864
Parsonstown	29.881
Valencia	29.873
Roche's Point	29.870
Pembroke	29.868
Seilly	29.894
Jersey	29.904
Hurst Castle	29.907
Dover	29.909
LONDON	29.911
Oxford	29.910
Cambridge	29.900
Yarmouth	29.886



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.

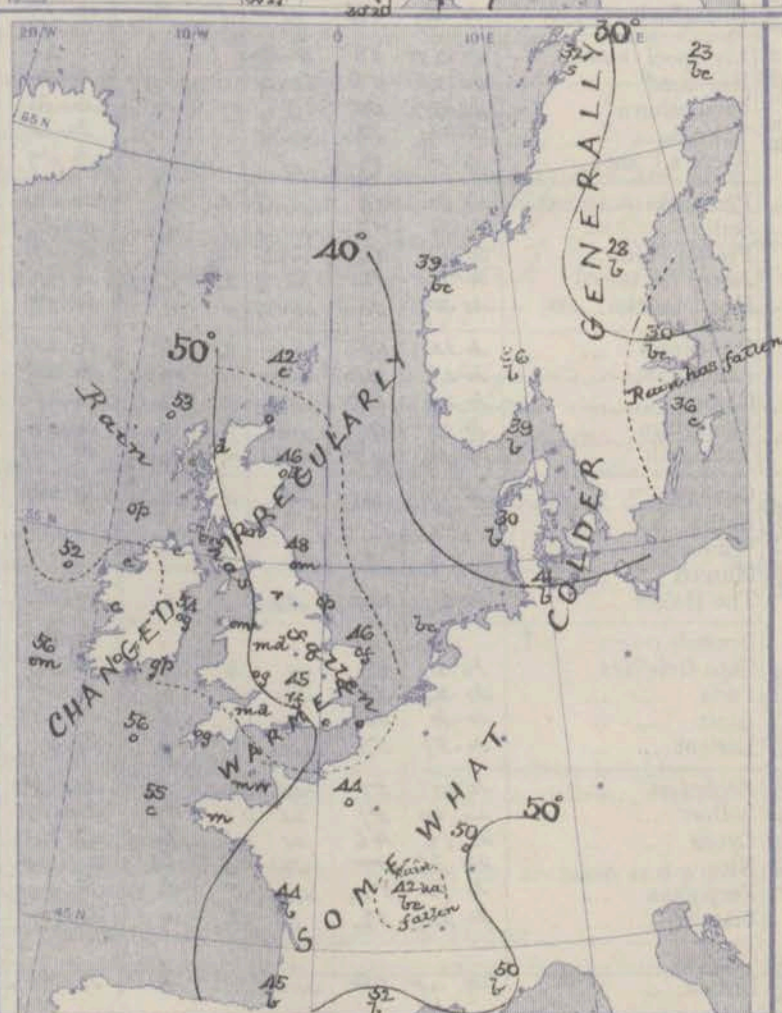
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of October.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	49.7	41.6	46.0	44.3	4.33
Stornoway.....	50.5	39.5	45.3	44.1	4.94
Wick.....	51.0	40.1	46.1	44.3	2.94
Nairn.....	51.0	40.6	44.5	42.5	2.38
Aberdeen.....	52.3	41.0	45.5	43.5	2.88
Leith.....	54.7	41.5	46.5	44.7	1.94
Shields.....	53.0	42.8	47.1	45.4	2.46
York.....	54.8	41.0	45.9	44.5	2.64
Loughborough.....	55.3	41.4	46.4	45.0	2.98
Ardrossan.....	53.5	43.6	47.6	45.6	4.31
Donaghadee.....	53.2	43.3	47.7	46.5	3.35
Holyhead.....	54.5	47.0	50.2	48.2	4.53
Liverpool.....	53.6	44.6	47.8	45.8	3.62
Parsonstown.....	54.7	41.1	45.4	44.7	3.27
Valencia.....	56.6	46.5	51.3	49.1	6.09
Roche's Point.....	55.8	45.9	50.2	48.4	4.17
Pembroke.....	54.8	48.0	51.2	49.1	4.13
Seilly.....	56.6	50.3	53.8	51.7	3.84
Jersey.....	58.1	49.2	53.6	51.1	4.34
Hurst Castle.....	57.1	46.0	51.4	49.6	3.24
Dover.....	55.8	47.0	50.7	48.7	3.28
LONDON.....	56.6	43.2	48.0	46.4	2.74
Oxford.....	55.3	42.5	46.7	45.3	2.72
Cambridge.....	56.4	41.2	46.4	45.4	2.36
Yarmouth.....	54.3	44.8	49.2	47.9	2.97

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. to 30.4 ins. over Ireland and the adjacent parts of the Atlantic; 30.2 ins. and more over Holland, Denmark and Norway.</p> <p>Lowest, about 30.1 ins. over the eastern part of the Baltic; below 30.0 ins. over the Gulf of Genoa; below 30.1 ins. in the south of Spain. Over the British Isles it ranges between 30.2 ins. and 30.30 ins.</p> <p>Gradients slight and irregular.</p> <p>Barometer inclined to rise slightly in all our districts.</p>
TEMPERATURE	<p>Highest, 57° at Lister, 56° at Seilly and Heligoland, 54° at Holyhead.</p> <p>Lowest, 23° at Casparanda, 28° at Hermonia, 30° at Stockholm and Lüne, 36° at Tarragona.</p> <p>Over our Islands the readings are nearly all above 45°, and are somewhat high for the time of year.</p>
WIND	<p>NW³ to N², light to moderate, over all the western part of the kingdom; very light and variable over Scotland, calm in many places.</p> <p>Over the Baltic it is N², and blows a gale at Riga.</p>
WEATHER	<p>Dull and cloudy throughout our Islands, with rain in many parts of England and Scotland, fog at some of our southern stations.</p> <p>On the eastern shore of the North Sea it is clear and light. Rainfall in Scotland during past 24 hours has been considerable.</p>
SEA	<p>Slight to very smooth in most places.</p>

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

No important change is indicated.

FORECASTS

For the 24 hours ending at NOON on 22nd OCT^r 1890.

DISTRICTS.

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

FORECASTS.

Variable airs and calms; dull, gloomy, hazy, or foggy, rain at times.

DISTRICTS.

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

FORECASTS.

N² winds, light; cloudy, passing showers.

NW² to NE² winds, light or moderate; dull.

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		WEA.	SEA		THER.		WIND		WEA.	SEA
	BAR.	D.	W.	D.				BAR.	D.	W.	D.		
Skudesnaes ...	30.21	49	41	E	2	C	3	Holyhead ...	30.26	57	56	NW	3
Sumburgh Head ...	30.19	46	43	E	1	C	3	Valencia ...	30.38	59	57	NW	2
Stornoway ...	30.17	55	54	NW	4	0	4	Scilly ...	30.32	58	56	NW	3
Aberdeen ...	30.20	44	43	0	1	omd	4	Jersey ...	30.21	54	48	NNW	3
Shields ...	30.21	47	45	E	0	0	4	Dungeness ...	30.21	52	51	N	4
Ardrossan ...	30.20	55	54	N	4	C	3	London ...	30.25	52	48	NW	1
Malin Head ...	30.28	55	53	NN	3	0	2	Yarmouth ...	30.18	52	48	N	3
Mullaghmore ...	30.35	56	55	NNW	2	C	2	Rochefort ...	30.24	55	48	NNE	4
Belmullet ...	30.38	57	54	NN	1	0	*						

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

Weather fine in the extreme south of England as well as over Scandinavia, Denmark, and the greater part of Southern Europe. B dull elsewhere, with rain in the north of our Islands and also in Germany and Tunis, snow at St Petersburg, and a thunderstorm at Sfax. Rain extending later to the east and southeast of England.

Temperatures highest 63° at Constantinople, 68° at Brindisi, 65° at Malta, and 64° at Algiers and Sfax; reaching 55° or more in the extreme southwest of our Islands. Lowest, 19° at Uleaborg, 21° at Raparanda, 27° at Kuopio and Helsingfors, and 28° at Hangö; below 40° in nearly all parts of Northern Europe and also over Central Spain; below 45° over the northern and central parts of Great Britain and also in the north of Italy. Subsequently rising to between 55° and 60° in the west of our Islands, but remaining below 50° at several of our northern stations.

Wind N⁴ over the greater part of Europe and strong in force over Finland and the Baltic. Light from the W² or SW² in the north of our Islands, and from the SE² in the west of Norway. Chiefly NW¹ in Italy; SW¹ in the south of Russia; S¹ in Algeria. Subsequently shifting to the E¹ in the west of France, but very little change occurring elsewhere.

Barometer 30.2 ins. to 30.3 ins. and upwards in an anticyclone lying over our Islands, the Bay of Biscay, the west of France and the extreme west of Norway. Lowest, 29.3 ins. and less, in a depression lying over Russia, with its centre a little to the southeastward of St Petersburg; 29.8 ins. and less, in another disturbance over the Gulf of Genoa. Very shallow depression lying to the northward of our Islands in morning, and subsequently spreading southwards across Scotland and the north of England.

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 22nd October

1890.

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

Issued by the Meteorological Office, 55, Victoria Street, London. N. H. SCOTT, Secretary.																	
YESTERDAY EVENING.																	
8 A.M. TO DAY.																	
PAST 24 HOURS.																	
STATIONS.	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 3.)	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 ...	30.17	27	E	1	30.29	-4.0	33	32	+10	NW	2	5	3	14	—	
	Hernösand ...	30.23	25	E	0	30.25	-0.8	35	32	+7	NW	2	5	39	23	—	
	Stockholm ...	30.20	30	NW	4	30.31	+0.8	29	26	-1	N	2	5	32	27	—	
	Wisby ...	30.23	36	N	3	30.28	+0.4	34	31	-2	NW	4	5	36	30	0.08	
	Bodo ...	30.13	43	SW	3	30.32	-4.1	47	46	+15	SW	3	7	3	30	0.39	
	Christiansund ...	30.30	43	SW	4	30.12	-2.1	46	44	+7	SW	4	7	3	46	—	
	Stadesnaes ...	30.41	41	E	0	30.33	-0.1	45	42	+2	E	4	0	2	46	41	—
	Christiania Fjord (Færd)	30.40	41	NW	2	30.36	-0.2	40	35	+4	SW	2	0	1	41	—	
	Skagen (The Scaw)	30.41	40	NE	1	30.37	+0.3	37	35	-2	NW	1	C	1	41	32	—
	Fanø ...	30.44	38	ENE	1	30.41	+0.4	37	36	+7	SE	2	5	45	30	—	
BRITISH ISLANDS.	Sumburgh Head	30.28	48	SW	1	30.37	0.0	51	51	+9	NW	2	0	3	51	41	0.15
	Stornoway ...	30.33	52	W	3	30.38	+0.3	50	50	-3	SW	2	0	3	53	47	0.02
	Wick ...	30.33	50	W	1	30.44	+0.4	51	50	+4	NW	1	0	1	51	45	0.12
	Nairn ...	30.33	51	E	0	30.39	+0.4	50	49	+1	NW	1	5	1	52	47	0.01
	Aberdeen ...	30.36	49	S	1	30.41	+0.2	50	50	+4	S	1	0	3	50	46	0.06
	Leith ...	30.35	49	SE	1	30.44	+0.4	51	49	+3	SW	1	2	2	51	48	0.07
	Shields ...	30.36	50	SW	2	30.43	+0.6	51	50	+3	SW	1	C	2	51	46	0.01
	Spurn Head ...	30.37	50	ENE	1	30.45	+0.7	46	44	-3	SE	2	5	2	52	45	—
	York ...	30.38	49	E	1	30.47	+0.7	48	47	+2	S	1	0	2	53	45	0.02
	Loughborough	30.39	50	NNE	1	30.49	+0.9	45	45	-1	ENE	1	0	2	53	44	0.01
GERMANY & HOLLAND.	Ardrossan ...	30.35	54	NW	2	30.46	+0.9	53	52	0	NW	1	0	1	59	46	—
	Malin Head ...	30.39	53	NW	1	30.47	+0.8	52	51	0	NW	2	C	2	54	50	0.05
	Mullaghmore ...	30.42	53	NW	2	30.50	+0.8	52	51	-1	W	1	C	2	55	50	0.19
	Belmullet ...	30.45	53	NW	2	30.52	+0.7	51	50	-1	NW	1	0	2	56	45	—
	Donaghadee ...	30.38	54	NNE	3	30.49	+0.6	49	48	-4	NW	3	5	1	59	42	0.02
	Liverpool (Bidston)	30.38	49	SE	1	30.47	+0.8	50	50	-1	S	1	0	2	53	48	0.02
	Holyhead ...	30.38	54	NW	4	30.49	+0.9	54	53	0	N	2	C	2	56	52	0.14
	Parsonstown ...	30.43	53	E	0	30.52	+0.9	47	46	-3	N	2	0	2	55	45	—
	Valencia ...	30.44	56	NW	1	30.53	+0.9	54	52	-2	N	1	0	1	59	52	—
	Roche's Point...	30.46	55	NW	2	30.50	+0.8	53	51	-1	N	2	0	2	58	51	—
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.39	54	NNE	2	30.46	+0.7	51	51	-2	ENE	1	2	2	55	57	0.08
	Scilly ...	30.35	56	N	4	30.43	+0.8	56	55	0	NNE	3	C	2	57	53	—
	Prawle Point ...	30.35	54	NNE	1	30.43	+0.7	50	48	-3	NNE	4	5	2	57	47	—
	Jersey (St. Aubin's)	30.31	53	NE	3	30.43	+0.7	50	48	-6	ENE	1	C	1	59	43	0.01
	Hurst Castle ...	30.36	49	ENE	3	30.50	+0.8	46	46	-7	NE	2	2	2	58	42	—
	Dungeness ...	30.33	50	N	1	30.50	+0.6	47	45	-1	E	3	5	2	53	44	0.03
	London ...	30.37	52	S	1	30.57	+0.6	40	39	-5	S	0	5	2	53	39	0.01
	Oxford ...	30.41	45	E	0	30.52	+0.4	41	41	-5	SE	1	5	2	50	39	—
	Cambridge ...	30.38	49	N	1	30.52	+0.4	38	38	-8	NE	1	5	2	54	35	—
	Yarmouth ...	30.36	49	SE	3	30.49	+0.5	45	42	-1	SW	2	5	3	50	42	—
PENINSULA.	Cuxhaven ...	30.42	41	N	3	30.48	+0.4	39	36	-2	S	2	C	2	44	3	—
	Berlin ...	30.38	37	NW	2	30.40	+0.2	35	32	+2	NW	3	C	2	39	32	—
	Wiesbaden ...	30.36	33	E	0	30.49	+0.3	37	33	-4	NNE	1	5	2	43	32	—
	Munich ...	30.36	33	NE	2	30.41	+0.5	30	30	-3	NW	1	5	2	37	27	0.04
	The Helder ...	30.45	42	SE	1	30.49	+0.4	36	33	-3	SE	1	5	1	46	34	—
	Brussels (9 a.m.)	30.34	41	NW	1	30.49	+0.4	30	29	-14	NNE	1	5	2	50	29	0.04
	Cape Gris Nez	30.30	39	N	3	30.38	+0.3	33	32	-1	E	2	0	2	61	50	—
	Paris ...	30.30	39	N	2	30.41	+0.4	47	45	-6	E	4	0	2	59	46	0.04
	Brest ...	30.30	39	N	2	30.41	+0.4	47	45	-6	E	4	0	2	59	46	0.04
	Lorient ...	30.30	39	N	2	30.41	+0.4	47	45	-6	E	4	0	2	59	46	0.04
PENINSULA.	Rochefort ...	30.27	35	NW	3	30.32	+0.4	45	44	+1	ENE	4	2	2	55	39	—
	Belfort ...	30.30	38	N	1	30.39	+0.3	26	21	-24	N	1	5	2	51	23	—
	Lyons ...	30.28	43	N	1	30.39	+0.3	32	31	-10	N	2	5	2	51	32	—
	Nice ...	30.06	49	NE	4	30.17	+0.2	45	41	-5	ENE	3	C	3	64	43	0.04
	Perpignan ...	30.20	53	NW	4	30.25	+0.5	53	47	+1	NW	3	0	2	62	48	—
	Biarritz ...	30.25	56	E	3	30.25	-0.2	52	47	+7	S	3	0	1	59	3	—
	Corunna ...	30.08	67	NNE	4	30.13	+0.9	57	47	0	NNE	3	5	2	73	55	—
	Lisbon ...	30.08	67	NNE	4	30.13	+0.9	57	47	0	NNE	3	5	2	73	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

WEDNESDAY, 22nd OCTOBER

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:

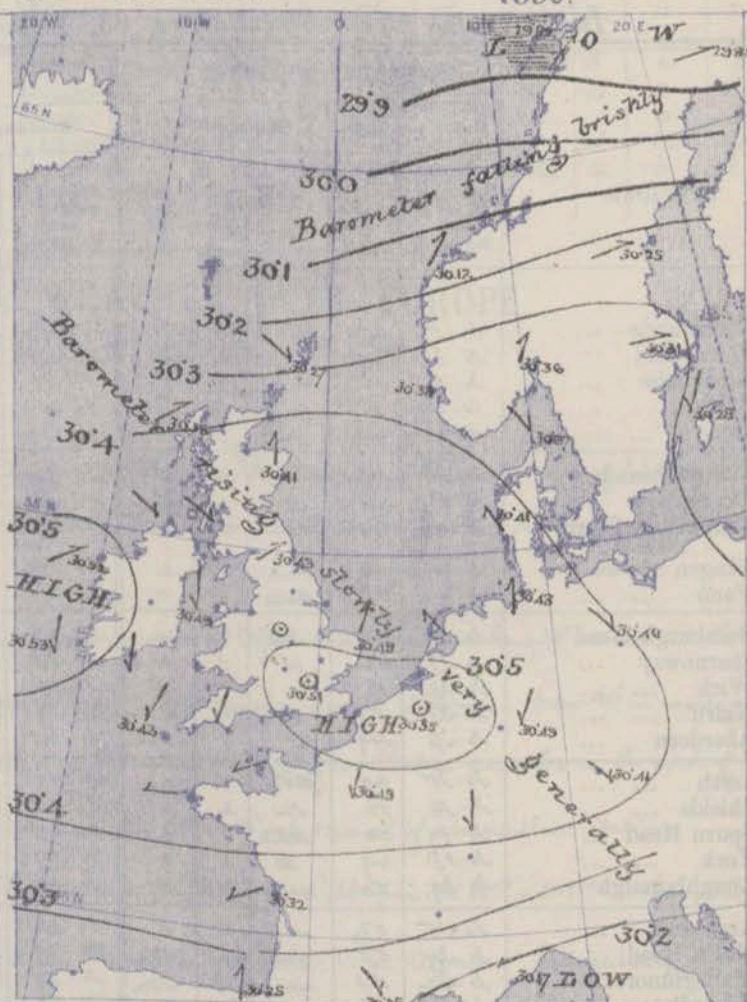
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.708
Stornoway	29.735
Wick	29.745
Nairn	29.761
Aberdeen	29.774
Leith	29.804
Shields	29.835
York	29.872
Loughborough	29.891
Ardrossan	29.813
Donaghadee	29.832
Holyhead	29.853
Liverpool	29.864
Parsonstown	29.881
Valencia	29.873
Roche's Point	29.870
Pembroke	29.868
Seilly	29.804
Jersey	29.904
Hurst Castle	29.907
Dover	29.909
LONDON	29.911
Oxford	29.910
Cambridge	29.900
Yarmouth	29.886



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.

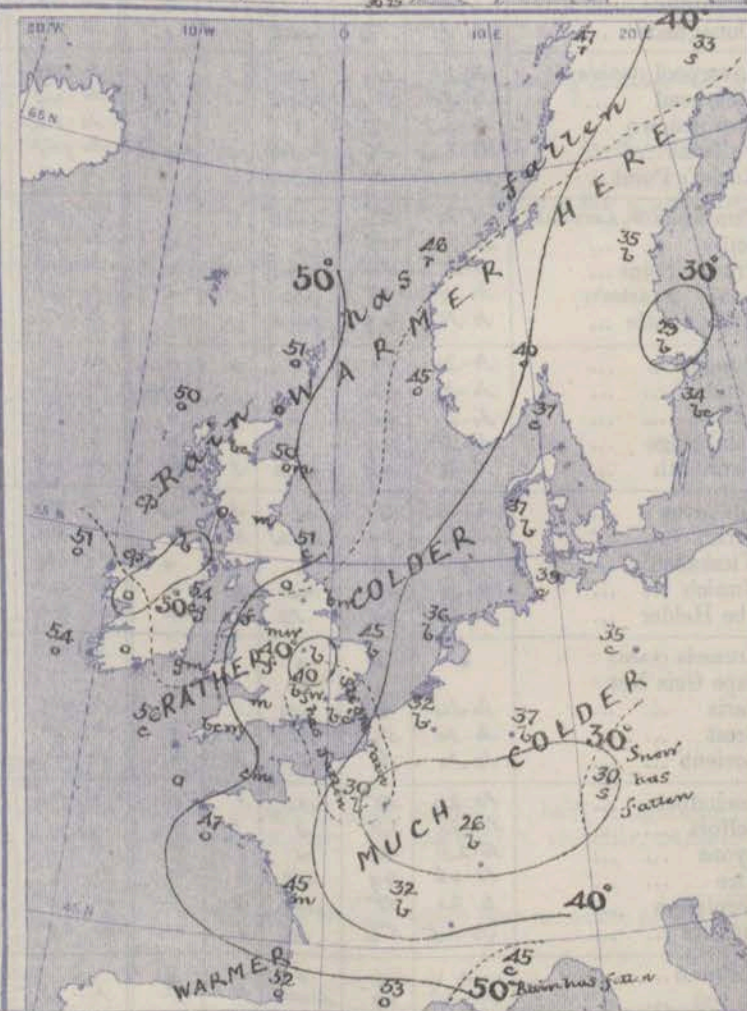
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of October.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	49.7	41.6	46.0	44.3	4.33
Stornoway	50.5	39.5	45.3	44.1	4.94
Wick.....	51.6	40.1	46.1	44.3	2.94
Nairn	51.6	40.6	44.5	42.5	2.38
Aberdeen	52.3	41.0	45.5	43.5	2.88
Leith.....	54.7	41.5	46.5	44.7	1.94
Shields	53.0	42.8	47.1	45.4	2.46
York	54.8	41.0	45.9	44.5	2.64
Loughborough	55.3	41.4	46.4	45.0	2.98
Ardrossan	53.5	43.6	47.6	45.6	4.31
Donaghadee.....	53.2	43.3	47.7	46.5	3.35
Holyhead.....	54.5	47.0	50.2	48.2	4.53
Liverpool	53.6	44.6	47.8	45.8	3.62
Parsonstown	54.7	41.1	46.4	44.7	3.27
Valencia	56.6	46.5	51.3	49.1	6.09
Roche's Point	55.8	45.9	50.2	48.4	4.17
Pembroke.....	54.8	48.0	51.2	49.1	4.13
Seilly	56.6	50.3	53.8	51.7	3.84
Jersey	58.1	49.2	53.6	51.1	4.34
Hurst Castle	57.1	46.0	51.4	49.6	3.24
Dover	55.8	47.0	50.7	48.7	3.28
LONDON	56.6	43.2	48.0	46.4	2.74
Oxford	55.3	42.5	46.7	45.3	2.72
Cambridge	56.4	41.2	46.4	45.4	2.36
Yarmouth	54.3	44.8	49.2	47.9	2.97

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 in. to 30.5 in. and more, over the British Isles, the North Sea, the Netherlands, and northern half of France.
Lowest, 29.8 in. and less over Scotland, and about 30.1 in. over the southern part of the Spanish Peninsula.
Gradient, moderate in the far north, very slight elsewhere.

TEMPERATURE

Barometer still rising over our Islands and France, falling over Northern Europe.
Highest, 57° at Lister, 55° at Seville, 54° at Valencia, 53° at Odesa.
Lowest, (1) 26° at Belfast, 30° at Munich and Paris, 32° at Brussels and Lyons; (2) 23° at Stockholm, 33° at Copenhagen, 34° at Riga.
 It has risen decidedly in the far north since yesterday, but fallen rapidly over France, and briskly over our southernmost counties.

WIND

Strong to a gale from S.W. in the north of Norway, light S.W. in Sweden; very light in our Islands.
 Chiefly N. at the western stations, and very variable from S. and S.E. in the East.
 Moderate from the E. over the Bay of Biscay.

WEATHER

Dull and gloomy on our western and northern coasts, fine in the east and southeast (with slight local fog), very fine over France, the eastern shores of the North Sea and the Baltic. At Copenhagen, however, and also at Munich snow is reported, and rain in the northwest of Norway. A little rain has fallen at most of our western and northern stations.

SEA

Smooth or nearly so on all our coasts, rather rough at Oslo.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A further fall of temperature is likely to take place over England tonight, accompanied by an increase of fog.

FORECASTS

For the 24 hours ending at NOON on 23rd OCT^r 1890.

DISTRICTS.

FORECASTS.

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

SW^{ly} breezes, light; some showers.
 } Varying airs; fair generally, cold tonight.
 }
 } Varying airs and Calms; fine today.
 } Cold and perhaps foggy at night.

DISTRICTS.

FORECASTS.

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

} Variable light breezes; dull, hazy or foggy, mild at first, colder later.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

THER: WIND								THER: WIND							
BAR:		D.	W.	D.	F.	WEA.	SEA	BAR:		D.	W.	D.	F.	WEA.	SEA
Skudesnaes ...	30.41	46	42	E	2	0	2	Holyhead ...	30.34	53	53	NW	4	0	4
Sumburgh Head	30.29	49	46	SW	1	0	3	Valencia ...	30.44	59	53	NW	1	0.5	1
Stornoway ...	30.30	55	52	NW	2	0	3	Scilly ...	30.35	57	53	NW	4	C	2
Aberdeen ...	30.32	53	49	S	2	omg	3	Jersey ...	30.29	57	53	NW	3	cm	3
Shields ...	30.31	50	47	S	1	0	2	Dungeness ...	30.28	53	50	NW	2	C	1
Ardrossan ...	30.31	53	54	NW	3	0	2	London ...	30.32	53	53	SE	1	C	8
Mullin Head	30.37	54	52	NW	2	C	2	Yarmouth ...	30.30	53	46	SE	3	bc	4
Mullaghmore	30.40	54	53	N	4	omg	2	Rochefort ...	30.29	54	48	NW	3	0	?
Belmullet ...	30.43	53	52	NW	2	0	*								

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

Weather dull and gloomy in our Islands with mist or fog, and slight rain in many places; dull also in Russia, Austria, and Italy, with snow at St. Petersburg. Fine in nearly all other parts of Europe. Rain and snow settling in later at some of the Scandinavian stations.

Temperature highest 66° at Malta, 65° at Algiers, 63° at Ben Tamar, and 62° at Cagliari and Oran; above 55° at nearly all the Mediterranean stations as well as at Valencia, Sicily, and Scilly. Lowest 19° at Uleaborg, 22° at Archangel, Kuopio, and Helsinki, and 23° at Kopenhaugen and Rango; below 40° in nearly all parts of Northern and Central Europe, and below 45° over Central Spain. Daily maxima below 55° in all the more northern and eastern parts of the United Kingdom, but thermometer exceeding 60° in the south of France, and exceeding 70° in Spain. Ground frost occurring on the southeast of England at night.

Wind light and variable over all the more eastern parts of Great Britain, light from the SEth in the coast of Norway and also in the Netherlands. Nth over nearly all other parts of Europe, but drawing into NE in Spain and the southwest of France. Chiefly Sth in Algeria, Wth in the south of Russia. No important change occurring during day.

Barometer highest, 30.3 in: to 30.4 in: in a large anticyclone lying over Ireland, the southwest of England, the northwest of France, and the Bay of Biscay, and also in another large system covering Scandinavia, Denmark, the North Sea and the Netherlands. Lowest 29.7 in: and less, in a depression lying over Russia; 30.0 in: and less, in a somewhat ill defined disturbance over the Gulf of Genoa. The two large anticyclones subsequently uniting and covering nearly the whole of 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 *Thursday, 23rd October, 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.			
			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 ...	29.65	37	2	0	0	29.53	- .32	41	40	+ .8	WNW	2	c	*	?	25	0.04
	Hernösand ...	29.89	49	2	0	0	29.85	- .40	50	46	+ .15	W	2	c	*	55	25	-
	Stockholm ...	30.10	38	SW	4	0	30.02	- .29	41	41	+ .12	W	2	b	*	?	27	-
	Wisby ...	30.23	39	WSW	6	b	30.07	- .21	44	43	+ .10	W	4	r	*	?	36	0.04
	Bodö ...	29.72	48	SW	8	r	29.76	- .06	46	42	- .1	WSW	6	r	4	48	45	0.47
	Christiansund	30.10	50	WSW	6	0	20.05	- .07	47	46	+ .1	SW	4	r	4	50	46	0.12
	Skudesnaes ...	30.32	46	E	2	r	30.24	- .14	46	45	+ .1	E	2	r	4	46	45	0.12
	Christiania Fjord (Fæder)	30.19	47	ESE	2	c	30.12	- .24	43	42	+ .3	WNW	1	m	2	46	?	-
	Skagen (The Scaw)	30.21	44	W	2	bc	30.12	- .25	46	45	+ .9	W	1	b	1	48	36	-
	Fanö ...	30.37	43	S	8	c	30.28	- .13	51	51	+ .14	WSW	2	o	*	?	37	-
BRITISH ISLANDS.	Sumburgh Head	30.27	51	W	3	m	30.14	- .13	53	53	+ .2	W	3	r	3	53	50	0.01
	Stornoway ...	30.36	55	SW	3	o	30.24	- .14	54	53	+ .4	SW	4	c	4	56	48	0.01
	Wick ...	30.37	51	W	1	o	30.26	- .15	53	52	+ .2	W	1	o	1	55	49	-
	Nairn ...	30.40	51	W	1	b	30.30	- .09	53	50	+ .3	WSW	2	bc	1	56	48	-
	Aberdeen ...	30.44	52	W	0	0	30.34	- .09	49	47	- .1	WSW	1	bc m	1	57	46	-
	Leith ...	30.45	51	W	1	c	30.41	- .04	53	52	+ .2	W	1	bc m	*	59	49	-
	Shields ...	30.45	54	W	2	o	30.41	- .02	52	50	+ .1	W	2	bc	2	57	46	-
	Spurn Head ...	30.45	49	W	3	om	30.42	- .03	51	50	+ .5	W	3	o	3	52	46	-
	York ...	30.46	54	S	1	o	30.45	- .02	51	50	+ .3	WNW	1	o	*	55	47	-
	Loughborough	30.51	49	WSW	1	r	30.49	- .02	50	49	+ .5	WNW	1	og m	*	51	45	-
GERMANY & HOLLAND.	Ardrossan ...	30.48	54	W	1	o	30.43	- .03	54	52	+ .1	WSW	2	c	1	58	52	-
	Malin Head ...	30.50	53	WSW	3	o	30.43	- .04	51	50	- .1	SW	3	o a	2	58	51	-
	Mullaghmore ...	30.54	53	W	1	o	30.49	- .01	51	49	- .1	SSW	3	o	2	55	49	0.02
	Belmullet ...	30.55	54	WSW	2	o	30.48	- .04	53	52	+ .2	WSW	3	o	*	58	51	-
	Donaghadee ...	30.53	52	WNW	1	c	30.50	+ .01	49	48	0	WNW	2	o	0	57	48	-
	Liverpool (Bidston)	30.51	52	WNW	2	o	30.50	+ .03	53	52	+ .3	WNW	2	o	2	55	50	-
	Holyhead ...	30.53	54	WNW	1	og	30.52	+ .03	53	50	- .1	W	2	og	2	57	53	-
	Parsonstown ...	30.56	53	W	0	bc	30.54	+ .02	48	47	+ .1	W	0	c	*	57	45	-
	Valencia ...	30.57	52	W	1	bc	30.55	+ .02	52	51	- .2	W	0	c	1	61	46	-
	Roche's Point...	30.56	58	W	0	o	30.55	+ .05	54	52	+ .1	ESE	1	o	1	59	51	-
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.54	53	N	1	c	30.55	+ .09	52	52	+ .1	S	1	c w	0	56	49	-
	Scilly ...	30.50	54	ESE	1	c w	30.55	+ .12	55	53	- .1	N	1	o	1	59	51	-
	Prawle Point ...	30.53	56	ESE	2	bc	30.55	+ .07	51	49	+ .1	W	0	og m	0	58	48	-
	Jersey (St. Aubin's)	30.51	53	ESE	2	bc	30.58	+ .10	45	40	- .5	SE	2	bc m	2	57	39	-
	Hurst Castle ...	30.54	50	ESE	2	bc	30.56	+ .04	49	49	+ .3	WNW	1	o m	1	55	44	-
	Dungeness ...	30.52	47	W	0	b	30.47	- .03	44	43	- .3	WNW	2	o	0	51	36	-
	London ...	30.53	45	W	0	bc	30.49	- .02	48	47	+ .8	WSW	1	og m	*	56	40	-
	Oxford ...	30.54	47	SW	1	o	30.52	- .02	46	45	+ .5	WSW	1	o m	*	49	41	-
	Cambridge ...	30.53	45	S	1	o	30.50	- .02	50	49	+ .12	W	1	o	*	54	36	-
	Yarmouth ...	30.48	47	W	2	b	30.42	- .07	48	48	+ .3	WNW	1	f	2	51	41	0.01
PENINSULA.	Cuxhaven ...	30.45	43	SE	2	b	30.34	- .14	40	40	+ .1	SSW	2	f	*	48	?	-
	Berlin ...	30.46	36	W	2	b	30.43	+ .03	31	29	- .4	W	2	f	*	39	28	-
	Wiesbaden ...	*	*	*	*	*	30.48	- .01	36	36	- .1	W	0	o	*	45	30	-
	Munich ...	30.46	30	W	2	o	30.47	+ .06	29	28	- .1	SW	1	m	*	36	25	0.04
	The Helder ...	30.47	50	WNW	2	b	30.38	- .11	51	50	+ .15	W	2	f	3	52	36	-
	Brussels (9 a.m.)	*	*	*	*	*	30.50	- .05	37	33	+ .5	SSW	1	bc	*	47	?	-
	Cape Gris Nez	30.50	43	W	0	b	30.46	- .04	50	46	- .4	WNW	4	o	3	50	34	-
	Paris ...	30.54	36	NNE	2	b	30.46	+ .07	27	27	- .3	NNE	1	o	*	?	26	-
	Brest ...	30.45	55	NNE	1	c	?	?	45	44	- .8	ESE	3	o	3	61	43	-
	Lorient ...	30.48	54	ESE	2	bc	30.57	+ .15	40	36	- .7	E	2	o	2	59	39	-
FRANCE AND BELGIUM.	Rochefort ...	30.41	49	NE	4	b	30.40	+ .16	35	32	- .10	NE	4	o	*	61	30	-
	Belfort ...	30.33	38	N	1	b	?	?	33	32	+ .7	N	1	o	*	45	25	-
	Lyons ...	30.40	37	WNW	4	b	30.43	+ .04	30	27	- .2	N	4	o	*	44	29	-
	Nice ...	30.17	49	SW	5	c	30.22	+ .05	42	37	- .3	NE	5	c	6	55	41	0.04
	Perpignan ...	30.26	53	W	3	b	30.32	+ .07	42	36	- .11	NE	2	o	*	61	39	-
	Biarritz ...	30.31	52	E	3	b	30.39	+ .14	35	32	- .17	E	3	o	1	49	32	0.04
PENINSULA.	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lisbon ...	30.13	44	WNW	4	b	30.15	+ .02	57	49	0	NNE	5	o	?	72	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

Thursday, 23rd October,

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:

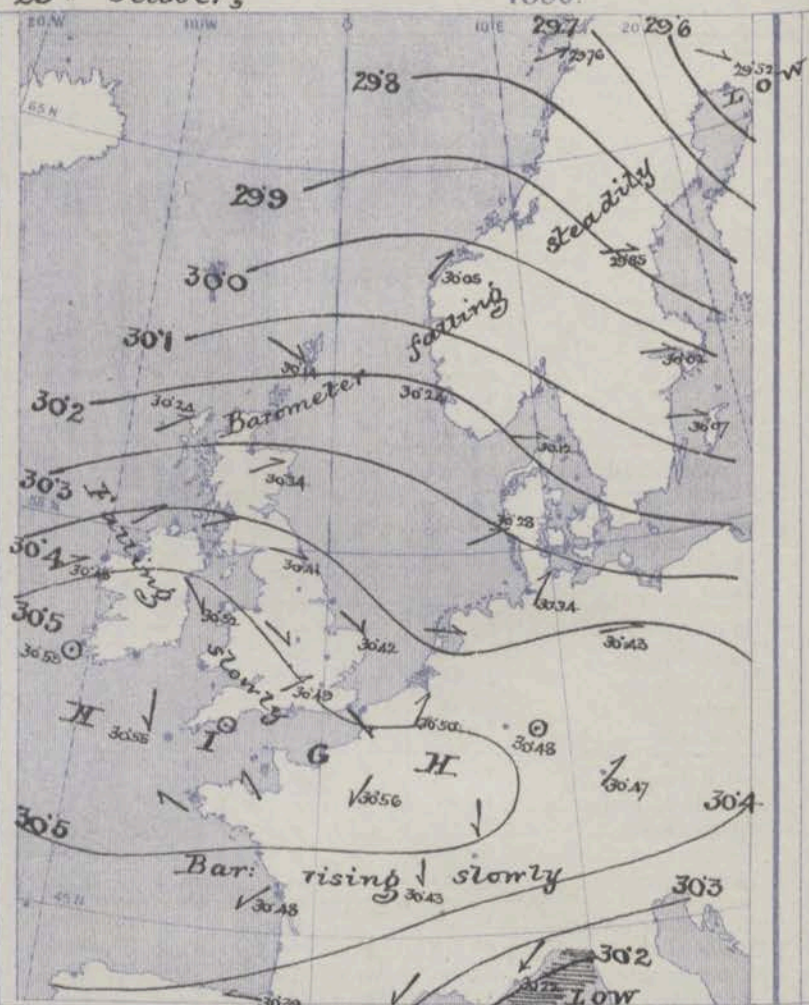
■ = Rough. ■ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.708
Stornoway	29.735
Wick	29.745
Nairn	29.761
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Hurst Castle	29.907
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LONDON	29.911
Oxford	29.910
Cambridge	29.900
Yarmouth	29.886



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.

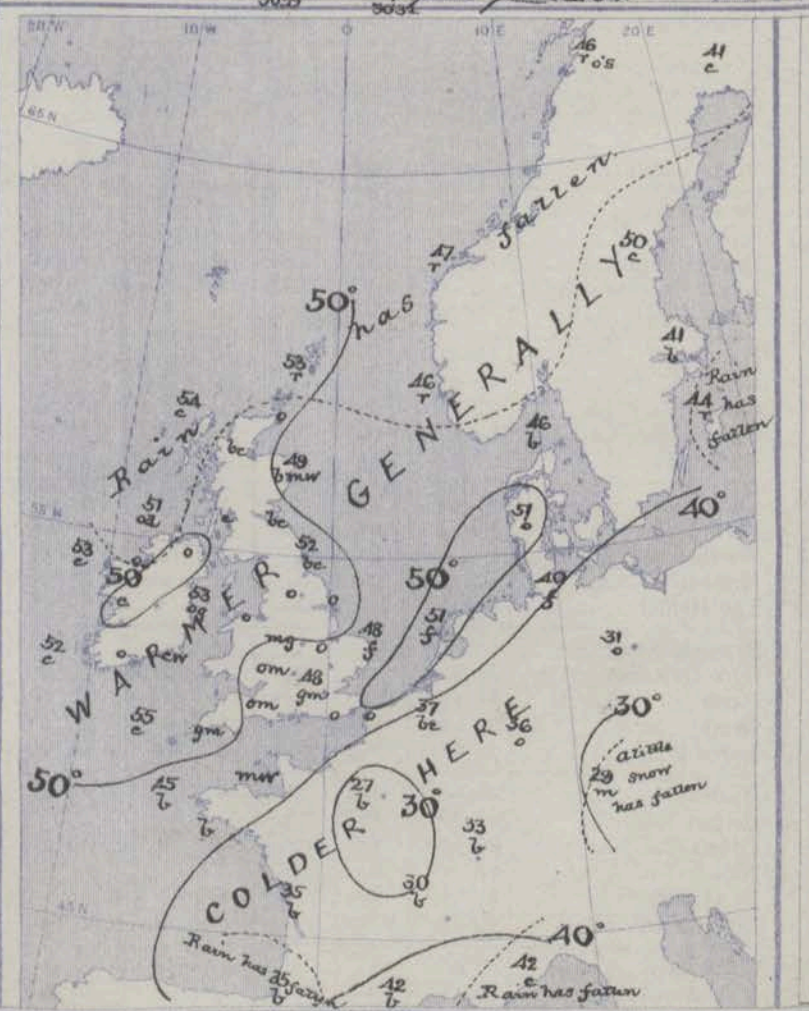
WEATHER is shown by Letters of the Beaufort Scale.

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 October.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Dry. at 8 a.m.	Wet.	
Sumburgh Head	49.7	41.6	45.0	44.3	4.33
Stornoway	50.5	39.3	45.3	44.1	4.94
Wick	51.6	40.1	46.1	44.3	2.94
Nairn	51.6	40.6	45.5	42.5	2.38
Aberdeen	52.3	41.0	45.5	43.5	2.88
Leith	54.7	41.5	46.5	44.7	1.94
Shields	53.0	42.8	47.1	45.4	2.46
York	54.8	41.0	45.9	44.6	2.64
Loughborough	55.3	41.4	48.4	45.0	2.98
Ardrossan	53.5	43.6	47.6	45.0	4.31
Donaghadee	53.2	43.3	47.7	46.5	3.35
Holyhead	54.5	47.0	50.2	48.2	4.53
Liverpool	53.6	44.6	47.8	45.8	3.62
Parsonstown	54.7	41.1	45.4	44.7	3.27
Valencia	56.6	46.5	51.3	49.1	6.00
Roche's Point	53.8	45.9	50.2	48.4	4.17
Pembroke	54.8	48.0	51.2	49.1	4.13
Scilly	50.6	50.3	53.8	51.7	3.84
Jersey	58.1	49.2	53.6	51.1	4.34
Hurst Castle	57.1	46.0	51.4	49.6	3.24
Dover	55.8	47.0	50.7	48.7	3.28
LONDON	56.6	43.2	48.0	46.4	2.74
Oxford	55.3	42.5	45.7	45.3	2.72
Cambridge	56.4	41.2	45.4	45.4	2.36
Yarmouth	54.3	44.8	49.2	47.3	2.97

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 in: to nearly 30 in: over Ireland, England, France, and the Bay of Biscay — highest of all 30.58 in: at Jersey.
 Lowest, 29.6 in: and less, over Finland and the northern extremity of the Gulf of Bothnia.
 Gradients very slight in the southwest and south, moderate to slight elsewhere.
 Barometer falling steadily in the north, rising slightly over France.

TEMPERATURE

Highest, 57° at Lisbon, 55° at Seville, 54° at Rochefort and Anderson, 53° at Avon and Sumburgh Head.
 Lowest, 27° at Paris, 23° at Munich, 30° at Lyons, 31° at Berlin, 33° at Brest, and 35° at Rotterdam and Binnig.
 In London the thermometer stands at 48°.

WIND

SW^{ly} on the west coast of Ireland, Scotland, and Norway — moderate or light in most places, but strong in the far north.
 W^{ly} and variable over England, NE^{ly} to E^{ly} over France.
 The gale in the north of Scandinavia has subsided.

WEATHER

Fine and bright over France and at most of our eastern and northeastern stations, but foggy at Yarmouth, the Helder and Cuxhaven.
 Elsewhere it is cloudy or overcast with rain at some northern stations.
 Rain has fallen generally in the far north, and snow at Munich.

SEA

Moderate in the far north, smooth to dead calm on our other coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone appears to be still moving southwards so that the SW^{ly} wind is likely to freshen on our northwestern coasts with rain. Not much change is likely over England at present.

FORECASTS

For the 24 hours ending at NOON on 24th OCT^r 1890.

DISTRICTS.

FORECASTS.

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

SW^{ly} winds, freshening; rain at times
 } SW^{ly} and W^{ly} winds, light; fine generally
 } Very light NW^{ly} and W^{ly} breezes; fair as a whole.

DISTRICTS.

FORECASTS.

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

Same as No 0
 } Same as No 3 to 5.
 } W^{ly} and SW^{ly} breezes, light or moderate; fine in the east, showers at times in the west.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...									Holyhead ...	30.52	56	53	W	2	2
Sumburgh Head ...	30.29	52	52	W	2	0	3		Valencia ...	30.55	59	53	W	1	1
Stornoway ...	30.36	56	54	W	3	0	3		Scilly ...	30.48	59	56	E	2	2
Aberdeen ...	30.42	56	53	W	1	0	2		Jersey ...	30.51	56	52	E	1	3
Shields ...	30.43	56	54	W	1	0	2		Dungeness ...	30.53	50	49	S	2	1
Ardrossan ...	30.47	55	54	W	1	0	1		London ...	30.52	54	45	SSW	1	3
Malin Head ...	30.48	56	53	W	2	0	2		Yarmouth ...	30.49	51	45	W	3	3
Mullaghmore ...	30.53	55	52	W	2	0	2		Rochefort ...	30.37	60	50	E	4	2
Belmullet ...	30.54	57	53	W	2	0	*								

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

Weather fine in the east and southeast of England, as well as in Finland, Sweden, Denmark, the Netherlands, France and Spain. Breeze in most other localities, with fog over Central England, rain in the west of Norway and also in Algeria, and snow at some of the German and Austrian stations. No important change occurring during day.

Temperature highest, 65° at Malta, 64° at Nemours, 63° at Brindisi, and 62° at Oran, Algiers, La Calle, and Sfax; above 55° at nearly all the Mediterranean stations and also on the west coast of the Iberian Peninsula. Lowest 19° at Kuopio, 21° at Helsinki, 23° at Uleaborg, 25° at Archangel, 26° at Riksfest, and 27° at Kiruna; a little below the freezing point in many parts of northern and central Europe. Daily maxima below 60° in nearly all parts of the United Kingdom, and below 50° in some parts of England as well as over Central France.

Wind W² or SW² in Scotland and Scandinavia, strong in force in the west of Norway; NW² or N² over Russia, Central Europe and Italy; NE² over the Channel, France, and Spain. Variable over the central parts of our Islands and also over the Netherlands and Algeria. Light W¹ breeze subsequently extending down our east coast; wind veering to the E² in the Channel.

Barometer highest 30.5 ins: and upwards, in a large anticyclone covering nearly the whole of our Islands and the North Sea with the Netherlands, western Germany and the east of France. Lowest, 29.9 ins: and less, over Lapland and also over Central Russia, 30.0 ins: and less, over France. No important change taking place during day.

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, 24th October, 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.		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.)		Weather.	Max.		Min.	
SCANDINAVIA.																		
Haparanda ...	29.57	37	SW	2	bc	29.20	- 33	40	40	- 1	SW	2	+	*	45	32	.	
Hernösand ...	29.75	44	SSW	2	bc	29.40	- 45	43	40	- 7	SSW	2	+	*	52	39	.	
Stockholm ...	29.92	41	SW	2	b	29.70	- 32	43	42	+ 2	WSW	4	0	+	50	37	.	
Wisby ...	29.99	44	WSW	4	b	29.82	- 25	45	44	+ 1	W	4	0	+	46	37	.	
Bodö ...	29.80	49	SW	8	+	29.10	- 66	45	43	- 1	SW	8	+	5	48	43	0.55	
Christiansund	29.65	52	WSW	9	+	29.44	- 61	46	45	- 1	WSW	6	+	5	54	45	1.34	
Skudesnaes ...	30.07	52	W	2	0	29.72	- 52	52	51	+ 6	WSW	7	+	4	52	46	0.28	
Christiania Fjord (Fæder)	29.96	50	WSW	2	b	29.67	- 45	52	50	+ 9	SSW	6	0	4	?	?	.	
Skagen (The Scaw)	29.95	46	W	1	b	29.81	- 31	50	49	+ 4	W	3	b	3	54	45	.	
Fanö ...	30.12	51	NW	3	+	30.00	- 26	51	50	0	NW	4	0	*	54	50	0.08	
Sumburgh Head	29.91	53	WSW	5	0	29.67	- 47	47	44	- 6	W	4	0	5	55	46	0.18	
Stornoway ...	30.01	54	W	5	+	29.84	- 40	45	45	- 9	SW	4	0	4	55	43	0.52	
Wick ...	30.05	54	W	4	0	29.83	- 46	48	46	- 5	W	1	0	1	58	45	0.15	
Nairn ...	30.10	54	W	3	bc	29.82	- 48	51	50	- 2	W	1	+	1	58	50	0.11	
Aberdeen ...	30.16	52	SSW	3	c	29.86	- 48	53	50	+ 4	SSW	4	bc	2	62	49	.	
Leith ...	30.24	55	W	2	0	29.92	- 49	54	52	+ 1	WSW	4	bc	*	56	52	.	
Shields ...	30.30	51	W	4	b	30.01	- 40	55	51	+ 3	SW	2	0	2	59	50	.	
Spurn Head ...	30.33	52	WNW	3	0	30.13	- 29	52	50	+ 1	SW	3	0	3	52	50	.	
York ...	30.37	53	WNW	2	b	30.13	- 32	53	51	+ 2	W	3	0	*	56	44	.	
Loughborough	30.42	52	W	2	0	30.21	- 28	51	49	+ 1	WSW	3	0	*	54	49	.	
ARDROSSAN ISLANDS.																		
Ardrossan ...	30.29	54	SW	3	0	29.98	- 45	54	53	0	WSW	4	+	3	54	52	0.05	
Malin Head ...	30.27	54	SW	5	up	29.95	- 48	54	53	+ 3	SW	5	0.2	4	58	50	0.03	
Mullaghmore ...	30.35	54	SW	4	0	30.06	- 43	54	53	+ 3	SSW	5	0.1	4	56	50	.	
Belmullet ...	30.35	54	WSW	3	b	30.04	- 44	55	54	+ 2	WSW	4	+	*	56	52	0.06	
Donaghadee ...	30.37	52	SW	2	c	30.07	- 43	53	52	+ 4	W	3	0	1	55	49	.	
LIVERPOOL ISLANDS.																		
Liverpool (Bidston)	30.41	52	WNW	2	0	30.17	- 33	53	50	0	WSW	4	0	3	54	51	.	
Holyhead ...	30.42	55	WNW	1	0.9	30.19	- 33	54	52	+ 1	WSW	4	0.9	3	56	53	.	
Parsonstown ...	30.43	53	SW	1	0	30.18	- 36	54	51	+ 6	W	0	0	*	57	42	.	
Valencia ...	30.46	55	SW	2	bc	30.24	- 31	56	55	+ 4	WSW	4	0.9	5	58	51	0.01	
Roche's Point...	30.47	53	WSW	2	b	30.25	- 30	55	54	+ 1	WSW	3	0	3	58	50	.	
Pembroke (St. Ann's Id.)	30.48	55	NW	3	bc	30.27	- 28	55	54	+ 3	WSW	5	0.9	4	56	52	.	
Scilly ...	30.48	54	NNE	1	bc	30.36	- 19	54	52	- 1	WSW	3	0	1	57	49	.	
Prawle Point ...	30.49	52	NW	1	bc	30.36	- 19	51	50	0	NW	2	0.1	1	61	47	.	
Jersey (St. Aubin's)	30.48	45	WNW	3	c	30.37	- 21	55	50	+ 10	NW	1	0.1	1	55	43	.	
Hurst Castle ...	30.46	54	WNW	1	0	30.32	- 22	53	52	+ 4	W	4	0	1	59	48	.	
Dungeness ...	30.39	51	W	2	m	30.27	- 20	50	49	+ 6	WNW	2	0	1	54	43	0.03	
London ...	30.42	54	W	1	0.9	30.27	- 22	50	48	+ 2	WSW	1	0	*	56	48	.	
Oxford ...	30.42	51	SW	1	0	30.26	- 26	50	48	+ 4	WSW	2	0	*	54	45	.	
Cambridge ...	30.40	52	W	0	0	30.22	- 28	51	49	+ 1	WSW	1	0	*	54	48	.	
Yarmouth ...	30.33	51	WNW	2	0.9	30.19	- 23	49	48	+ 1	WNW	2	0	2	53	47	.	
GERMANY & HOLLAND.																		
Cuxhaven ...	30.22	50	WSW	2	+	30.10	- 24	51	51	+ 11	NW	1	0	*	52	?	0.12	
Berlin ...	30.26	36	S	3	0	30.12	- 31	39	38	+ 3	WNW	3	0	*	39	30	.	
Wiesbaden ...	*	*	*	*	*	30.21	- 27	40	39	+ 4	NW	2	0	*	45	?	0.24	
Munich ...	30.38	31	W	2	0	30.27	- 20	31	30	+ 2	SW	5	0	*	36	27	.	
The Helder ...	30.28	52	WNW	2	0	30.14	- 24	53	51	+ 2	WNW	2	0	3	54	50	0.12	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.)	*	*	*	*	*	30.23	- 27	48	48	+ 11	WNW	1	+	*	49	37	0.08	
Cape Gris Nez	30.37	53	NW	4	0	30.25	- 21	53	50	+ 3	NW	4	0	3	55	48	0.08	
Paris ...	30.45	44	WNW	2	0	30.30	- 26	46	46	+ 19	WNW	1	0	*	50	?	0.04	
Brest ...	30.47	53	NW	2	b	30.39	?	54	52	+ 9	N	1	0	2	61	?	.	
Lorient ...	30.52	50	NW	1	b	30.41	- 16	51	50	+ 11	NW	3	b	2	54	?	.	
ROCHEFORT ISLANDS.																		
Rochefort ...	30.47	49	ESE	4	b	30.37	- 11	52	50	+ 17	WNW	4	0	*	57	?	.	
Belfort ...	30.34	51	E	2	bc	30.34	?	49	34	+ 16	E	1	0	*	?	33	.	
Lyons ...	30.42	38	N	2	bc	30.35	- 08	36	34	+ 6	NNE	1	+	*	44	?	.	
Nice ...	30.22	45	E	6	c	30.21	- 01	40	?	- 2	E	1	0	4	52	39	.	
Perpignan ...	30.33	47	WNW	3	b	30.31	- 01	46	38	+ 4	NW	3	0	*	55	?	.	
Biarritz ...	30.42	45	ESE	3	b	30.32	- 07	37	34	+ 2	SE	3	0	1	52	34	.	
PORTUGAL.																		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.	
Lisbon ...	30.10	64	NE	6	bc	30.19	+ 04	52	41	- 6	NE	5	0	?	72	32	.	

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

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

1890

for 8 a.m. on

Friday, 24th October,

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—

\longleftrightarrow = forces above 10; \rightarrow = 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 October.

During the 15 Years: 1871—1885

October 3

LOW

Barometer falling

Barometer

Rising

decidedly

Bar: falling slowly

HIGH

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 October.)

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 in. at 30.4 in. over France and the Bay of Biscay.
 Lowest, 29.1 in. in Denmark, 29.7 in. and less, over the Netherlands.
 Gradient moderate over our Islands and Norway, slight over France and the Bay of Biscay.
 Barometer falling generally—decidedly at Valencia Island.

TEMPERATURE

Highest, 56° at Valencia Island, 55° at Belmullet, Portlaoise and Shields, 52° at Skudesnæs, and 50° in London.
 Lowest, 31° at Munich, 36° at Lyons, 39° at Belmullet, 40° at Miskaden and Kaparanda.
 It has not been below 50° in London all night.

WIND

Blowing a gale from SW. over the northern part of Norway.
 SW^{ly} to W^{ly} in our Islands—light to moderate in force at most stations, but increasing considerably in the west of Ireland.
 A moderate gale was felt at Stornoway during the night.

WEATHER

Rainy in Norway and at several of our own northern and northwestern stations, cloudy or overcast in other parts of our Islands,
 fine in the west of France. Rainfall has been heavy at the extreme northern stations.
 A lunar halo was seen at Valencia Island last night.

SEA

Rather rough and rising in the extreme west and northwest both of our Islands and Norway, moderate to slight in the Irish Sea, smooth in the south and east.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A new depression is apparently advancing to our northwest coast, and is likely to cause less settled weather generally, and SW^{ly} gales in the northwest.

Our extreme north and northwest coasts have been warned.

FORECASTS

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

DISTRICTS.

FORECASTS.

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

SW^{ly} winds, strong; squally, rainy.
 } SW^{ly} breezes, freshening; fair to showery.
 } SW^{ly} breezes, light to fresh; fair to showery.

DISTRICTS.

FORECASTS.

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

} Same as No 0
 } SW^{ly} winds, increasing in force; dull squally, rainy.

WARNINGS

The SOUTH CONE is still up in district 0 and has been hoisted this morning in part of district 9.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND		WEA.	SEA		BAR.	THER.		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	30.17	69	48	2	0	f	2		Holyhead ...	30.47	55	51	W	2	2
Sumburgh Head ...	30.31	53	52	W	4	0	4		Valencia ...	30.51	56	55	W	2	2
Stornoway ...	30.12	58	53	W	4	0	4		Scilly ...	30.50	56	55	NW	1	1
Aberdeen ...	30.23	58	53	SW	3	0	1		Jersey ...	30.53	52	47	W	3	3
Shields ...	30.35	58	52	W	4	0	2		Dungeness ...	30.41	55	53	N	3	1
Ardrossan ...	30.35	54	52	W	2	0	1		London ...	30.44	55	52	W	1	2
Malin Head ...	30.33	56	53	W	4	0	3		Yarmouth ...	30.37	53	52	NW	1	2
Mullaghmore ...	30.40	55	53	W	4	0	2		Rochefort ...	30.49	55	46	ESE	4	2
Belmullet ...	30.41	56	53	W	3	0	*								

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

Weather fine in the east of Scotland and the northeast of England, as well as in France, Spain, and Italy. Cloudy or overcast elsewhere with fog over the Netherlands, rain in Finland, the west of Norway, and the south of Russia, as well as in Tunis, and snow at Casco and Vienna. Sky clearing later on our extreme west and southwest coasts, but rain falling in the northwest and north.

Temperature highest, 65° at Malta, 63° at San Fernando and 61° at Oporto, San Fernando and Algiers; above 50° in many parts of the United Kingdom. Lowest 21° at Warsaw, 17° at Moscow and Paris, and 28° at Kiev, Breslau and Ruda bath; below the freezing point in many parts of Russia and Central Europe, and below 45° over Northern Italy, and central Spain. Daily maxima exceeding 55° at many of our western and northern stations and reaching 62° at Aberdeen; reading lower over our eastern and midland counties and also over France.

Wind light or moderate from the SWnd or Wnd in all the more northern parts both of our Islands and the Continent; strong in force in the northwest of Norway. Variable in the southern parts of the United Kingdom, light from the Nnd over Austria and the south of Russia; moderate to strong from the NEnd over Southern Europe, and light from the same quarter in France, light from the SEnd in Algeria. Subsequently increasing to a strong breeze from the Wnd in the extreme north of Scotland.

Barometer highest 30.5 in. and upwards, over Ireland and the southwest of England and all the more northern parts of France; 30.2 in. and upwards, in a large anticyclone covering nearly the whole of western and central Europe. Lowest, 29.6 in. and less, in a large depression over Lapland. 29.8 in. and less, in a small but well defined depression lying near the Crimea, 30.0 in. and less in a large shallow area to the southward of Italy. Brisk fall of the barometer taking place later in the north of our Islands.

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, 25th October, 1890.*
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

Issued by the Meteorological Office, 65, 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 1.)	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 ...	29.15	35	N	0	b	29.15	- .05	35	34	- 5	SW	2	c	*	43	32	0.04	
Hernösand ...	29.39	35	N	0	b	29.28	- .12	36	36	- 7	N	0	b	*	52	34	0.12	
Stockholm ...	29.49	50	SW	2	0	29.46	- .24	44	42	+ 1	SW	2	b	*	52	36	-	
Wishby ...	29.73	49	W	6	c	29.58	- .24	48	47	+ 3	W	4	bc	*	50	41	-	
Bodö ...	29.07	47	SW	6	0	29.05	- .05	39	38	- 6	SSW	1	r	2	46	39	0.67	
Christiansund ...	29.32	43	W	8	r	29.25	- .19	40	38	- 6	W	6	r	5	46	37	1.02	
Skudesnaes ...	29.64	48	W	4	c	29.48	- .24	45	43	- 7	W	2	0	3	52	43	0.12	
Christiania Fjord (Fjord)	29.49	53	W	5	b	29.44	- .23	48	45	- 4	W	5	0	3	51	48	-	
Skagen (The Seaw)	29.60	50	W	5	b	29.52	- .29	46	45	- 4	W	3	c	3	51	48	-	
Fanö ...	29.77	53	W	4	c	29.59	- .21	52	52	+ 1	W	4	r	*	51	?	0.24	
BRITISH ISLANDS.																		
Sumburgh Head	29.58	45	W	3	c	29.47	- .20	40	37	- 7	W	3	c	4	51	38	0.08	
Stornoway ...	29.77	46	W	4	r	29.63	- .21	40	39	- 5	W	2	0	3	51	38	0.15	
Wick ...	29.73	46	W	2	0	29.58	- .22	38	38	- 10	W	2	r	1	50	37	0.20	
Nairn ...	29.79	47	W	1	bc	29.63	- .19	42	41	- 9	W	0	0	1	52	41	0.02	
Aberdeen ...	29.79	45	W	1	c	29.61	- .25	43	40	- 10	W	2	ogr	2	60	42	-	
Leith ...	29.80	57	W	4	0	29.62	- .30	46	45	- 8	W	1	cm	*	58	45	-	
Shields ...	29.87	56	SW	2	0	29.64	- .37	46	44	- 9	SW	2	0	2	60	43	-	
Spurn Head ...	29.95	52	W	4	c	29.66	- .47	48	45	- 4	W	4	0	3	56	48	0.01	
York ...	30.03	54	W	2	0	29.68	- .45	46	43	- 7	W	1	0	*	58	44	0.06	
Loughborough	30.03	54	W	3	0	29.76	- .45	48	47	- 3	W	1	0	*	57	48	0.04	
Ardrossan ...	29.85	50	SW	4	0	29.64	- .34	49	47	- 5	W	4	ogr	3	54	47	0.13	
Malin Head ...	29.90	49	W	4	0	29.68	- .27	48	46	- 6	W	3	ogr	2	55	47	0.13	
Mullaghmore ...	29.95	50	W	5	c	29.74	- .32	49	47	- 5	W	4	ogr	3	56	47	0.27	
Belmullet ...	29.97	50	W	2	0	29.78	- .26	47	46	- 8	W	1	ogr	*	56	47	0.47	
Donaghadee ...	29.88	57	W	3	ogr	29.71	- .36	46	46	- 7	W	2	r	0	58	42	-	
Liverpool (Bldston)	30.07	53	W	3	0	29.74	- .43	48	46	- 5	W	3	0	4	57	48	0.10	
Holyhead ...	29.97	55	SW	5	ogr	29.76	- .43	49	47	- 5	W	4	ogr	4	58	48	0.08	
Parsonstown ...	29.97	56	SW	1	c	29.78	- .40	48	45	- 8	W	0	c	*	57	45	0.27	
Valencia ...	30.05	57	W	5	ogr	29.79	- .45	58	57	+ 2	W	7	ogr	6	58	51	0.42	
Roche's Point...	30.08	56	W	4	0	29.77	- .48	58	57	+ 3	W	4	ogr	4	58	51	0.01	
Pembroke (St. Ann's Hd.)	30.07	55	W	6	r	29.83	- .44	50	49	- 5	W	3	pm	4	56	50	0.21	
Scilly ...	30.20	56	W	4	c	29.93	- .43	56	56	+ 2	W	5	r	2	57	50	0.18	
Prawle Point ...	30.20	54	W	4	0	29.88	- .48	55	55	+ 4	W	5	r	3	57	50	0.09	
Jersey (St. Aubin's)	30.24	58	W	2	ogr	29.97	- .40	56	55	+ 1	W	4	ogr	3	58	54	0.09	
Hurst Castle ...	30.17	56	W	2	c	29.84	- .48	56	56	+ 3	W	6	c	2	59	53	0.05	
Dungeness ...	30.12	55	W	4	0	29.78	- .49	55	53	+ 5	W	6	r	5	58	50	0.12	
London ...	30.12	55	W	2	0	29.78	- .49	54	53	+ 4	W	2	0	*	58	49	0.04	
Oxford ...	30.06	53	SW	3	0	29.78	- .48	53	52	+ 3	W	2	0	*	55	50	0.02	
Cambridge ...	30.06	53	SW	1	0	29.73	- .49	52	50	+ 1	W	1	0	*	60	50	0.04	
Yarmouth ...	30.01	53	W	1	b	29.69	- .50	53	52	+ 4	W	2	2f	4	57	47	0.04	
GERMANY & HOLLAND.																		
Cuxhaven ...	29.98	51	W	3	f	29.75	- .35	51	50	0	W	3	f	*	54	50	-	
Berlin ...	30.02	42	SW	3	f	29.88	- .24	43	43	+ 4	W	3	0	*	43	?	0.04	
Wiesbaden ...	*	*	*	*	*	30.01	- .20	44	44	+ 4	W	0	0	*	44	?	-	
Munich ...	30.15	35	SW	2	0	30.06	- .21	34	34	+ 3	W	3	5	*	37	?	0.24	
The Helder ...	29.98	54	W	2	c	29.69	- .45	54	53	+ 1	W	3	0	3	54	52	0.04	
FRANCE AND BELGIUM.																		
Brussels (6 a.m.)	*	*	*	*	*	29.88	- .35	50	49	+ 2	W	5	0	*	56	48	0.04	
Cape Gris Nez	30.10	55	W	4	0	29.83	- .42	54	54	+ 1	W	5	r	5	57	50	0.20	
Paris ...	30.23	48	W	1	0	30.06	- .24	49	48	+ 3	W	2	0	*	?	?	0.04	
Brest ...	30.28	53	W	2	0	30.05	- .34	56	51	+ 2	W	5	r	4	61	48	-	
Lorient ...	30.28	54	W	4	0	30.11	- .30	56	52	+ 5	W	4	0	3	57	50	-	
Rochefort ...	30.31	55	W	3	0	30.18	- .19	54	51	+ 2	W	4	c	*	57	45	-	
Belfort ...	30.19	34	W	1	c	30.17	- .17	38	30	- 16	W	1	?	*	?	30	0.04	
Lyons ...	30.27	38	W	1	m	30.21	- .14	40	40	+ 4	W	1	c	*	40	?	0.08	
Nice ...	30.12	44	SW	3	c	30.08	- .13	40	38	0	W	4	c	2	50	39	-	
Perpignan ...	30.20	49	W	4	0	30.23	- .08	52	48	+ 6	W	2	0	*	53	?	-	
Biarritz ...	30.36	49	W	3	0	30.25	- .07	48	45	+ 11	W	3	b	1	54	?	-	
PENINSULA.																		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-
Lisbon ...	30.17	63	W	4	b	30.23	+ .04	52	46	0	W	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

Saturday, 25th October,

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:

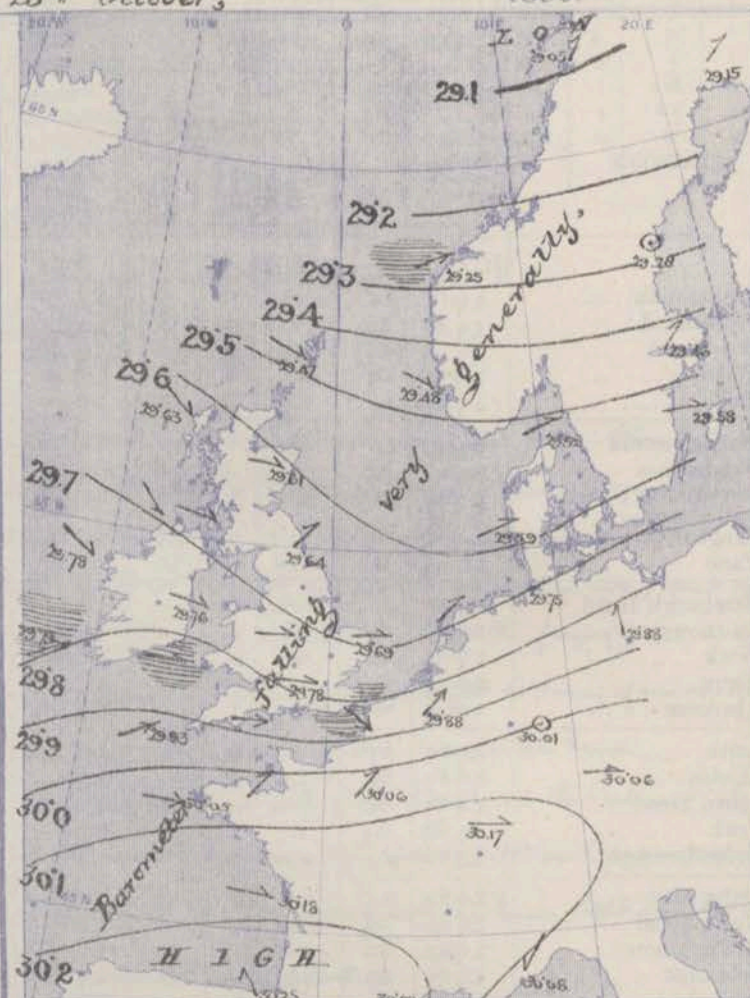
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.708
Stornoway	29.735
Wick	29.745
Nairn	29.761
Aberdeen	29.774
Leith	29.804
Shields	29.835
York	29.872
Loughborough	29.891
Ardrossan	29.813
Donaghadee	29.832
Holyhead	29.833
Liverpool	29.864
Parsonstown	29.881
Valencia	29.873
Roche's Point	29.870
Pembroke	29.868
Selly	29.894
Jersey	29.904
Hurst Castle	29.907
Dover	29.909
LONDON	29.911
Oxford	29.910
Cambridge	29.900
Yarmouth	29.886



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.

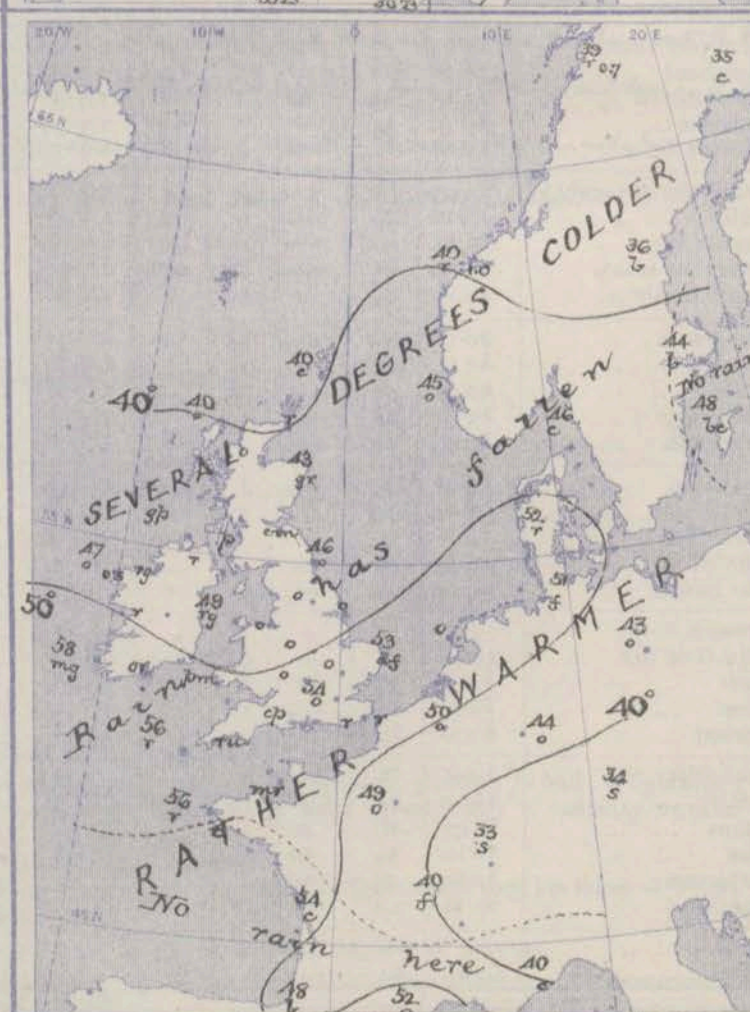
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of October.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	49.7	41.6	46.0	44.3	4.33
Stornoway	50.5	39.5	45.5	44.1	4.04
Wick	51.6	40.1	46.1	44.3	2.04
Nairn	51.6	40.6	44.5	42.5	2.38
Aberdeen	52.3	41.0	45.5	43.5	2.88
Leith	54.7	41.5	46.5	44.7	1.94
Shields	53.0	42.8	47.1	45.4	2.46
York	54.8	41.0	45.9	44.5	2.64
Loughborough	55.3	41.4	46.4	45.0	2.98
Ardrossan	53.5	43.6	47.6	45.6	4.31
Donaghadee.....	53.2	43.3	47.7	46.5	3.85
Holyhead.....	54.5	47.0	50.2	48.2	4.53
Liverpool	53.6	44.6	47.8	46.8	3.62
Parsonstown	54.7	41.1	46.4	44.7	3.27
Valencia	56.6	46.5	51.3	49.1	6.00
Roche's Point	55.8	45.9	50.2	48.4	4.17
Pembroke.....	54.8	48.0	51.2	49.1	4.13
Selly	56.6	50.3	53.8	51.7	3.84
Jersey	58.1	49.2	53.6	51.1	4.34
Hurst Castle	57.1	46.0	51.4	49.6	3.24
Dover	55.8	47.0	50.7	48.7	3.28
LONDON	56.6	43.2	48.0	46.4	2.74
Oxford	55.3	42.5	46.7	45.3	2.72
Cambridge	56.4	41.2	46.4	45.4	2.86
Yarmouth	54.3	44.8	49.2	47.9	2.97

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 30.2 ins. and more, in an anticyclone lying over Spain the Bay of Biscay and France.
 Lowest, 29.1 ins. and less, over the eastern part of England, 29.6 ins. and less over Denmark.
 Gradients somewhat steep over the English Channel and northern part of France, slight elsewhere.
 Barometer falling irregularly - decidedly at Valerius Island.

TEMPERATURE

Highest, 58° in the south of Ireland, 56° at the mouth of the English Channel, and 54° in London.
 Lowest, 35° at Haparanda, 36° at Helsingfors, 38° at Arkh., 40° at Sumburg Head and Christiansund.
 It has fallen decidedly over the northern parts of our Islands since last evening.

WIND

SW² over Scandinavia - NW² light, on our northwestern coasts.
 W¹ over the greater part of Ireland, England, and the north of France, and blowing strongly at Valerius Island and some of the Channel stations. Over Southern Europe it is mainly NE.

WEATHER

Sun at the extreme southern stations only; elsewhere it is cloudy or overcast, with rain at times.
 Snow is falling at Munich and Belfast.
 The fall of rain since yesterday has been heavy in the northwest of Norway.

SEA

Rather rough in the southwest and south, moderate to slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Unsettled weather seems likely to continue, with rain from time to time, and an increase of wind at our southern stations.

FORECASTS

For the 24 hours ending at NOON on 26TH OCT^R 1890.

DISTRICTS.

FORECASTS.

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

Varying W² winds, light, changeable some rain.

Same as No 5

SW² winds, increasing in strength; cloudy, rain at times, then NW and colder.

DISTRICTS.

FORECASTS.

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

Same as No 0 and 1.

SW² to NW² winds, squally, changeable rainy, colder later.

WARNINGS

Signals lowered in extreme north and northwest this morning.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.69	48	48	NW	4	b	3		Holyhead ...	30.07	56	SW	5	o g m	4
Sumburgh Head ...	29.63	48	46	N	3	b c	4		Valencia ...	30.12	55	SW	6	r m	6
Stornoway ...	29.60	51	48	N	4	o	4		Scilly ...	30.25	57	SW	4	c	2
Aberdeen ...	29.31	49	46	NW	2	e g	3		Jersey ...	30.31	57	SW	2	o	2
Shields ...	29.91	58	53	N	4	c	2		Dungeness ...	30.17	57	SW	3	c	1
Ardrossan ...	29.86	54	54	SW	4	r	3		London ...	30.15	57	SW	2	o g	*
Malin Head ...	29.91	52	51	NW	4	o	3		Yarmouth ...	30.08	57	SW	3	b c	2
Mullaghmore ...	29.94	56	56	SW	5	d	4		Rochefort ...	30.24	54	SW	3	o	2
Belmullet ...	30.03	55	54	N	3	o	*								

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

Weather fine in the east of Scotland and also over the greater part of southern and eastern Europe. Cloudy or overcast elsewhere with rain in the extreme northwest of our Islands, the west of Norway and the north of Germany, as well as at Naples and Laforce. A thunderstorm was in progress at Constantinople. Rain falling later in nearly all parts of Western Europe—heavily on the west coasts of Ireland and Norway. The newspapers report heavy snowstorms in the Austrian Alps.

Temperature highest 83° at Malta, 61° at San Fernando, 60° at Oran, and 55° at Tunis; varying between 50° and 55° over the greater part of the United Kingdom. Lowest 21° at Moscow, 26° at Kiev and Odessa, 27° at Hermannstadt, and 28° at Nicolaiiff; below the freezing point in many parts of Central Europe and below 40° over Central Spain and the north of Italy. Rising during day to between 55° and 60° in all but the extreme northern parts of the United Kingdom; daily maxima below 55° in the south of France.

Wind W¹ or SW¹ over our Islands and all the more northern and central parts of the Continent; light or moderate in force generally but strong to a gale on the Norwegian coasts. Light or moderate from the NW² in France, from the NW¹ over Italy and the south of Russia, and from the NE¹ or E¹ in Spain; light from the SE¹ or S¹ in Algeria. Subsequently varying to the NW¹ in the north of Ireland; no important change occurring elsewhere.

Barometer highest, 30.2 in. to 30.4 in. in a large anticyclone extending from the Atlantic across Spain, France, and the south of our Islands to Central and Eastern Europe. Lowest, 29.1 in. and less, in a depression lying over Denmark (gradient rather steep over Lapland); 29.3 in. and less, in a shallow disturbance lying to the southward of Malta. No important change occurring over Western Europe during day.

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.

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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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8 A.M. TO DAY.																	
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BAROMETER.																	
SHADE TEMP.																	
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Dry.																	
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Christiania Fjord																	
(Færd)																	
Skagen (The Scaw)																	
Fanö ...																	
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Dungeness ...																	
London ...																	
Oxford ...																	
Cambridge ...																	
Yarmouth ...																	
Cuxhaven ...																	
Berlin ...																	
Wiesbaden ...																	
Munich ...																	
The Helder ...																	
Brussels (9 a.m.)																	
Cape Gris Nez																	
Paris ...																	
Brest ...																	
Lorient ...																	
Rochefort ...																	
Belfort ...																	
Lyons ...																	
Nice ...																	
Perpignan ...																	
Biarritz ...																	
Cornwall ...																	
Lisbon ...																	

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

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WEATHER CHARTS

for 8 a.m. on

Sunday, 26th October,

1890.

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EXPLANATION OF MAP.

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

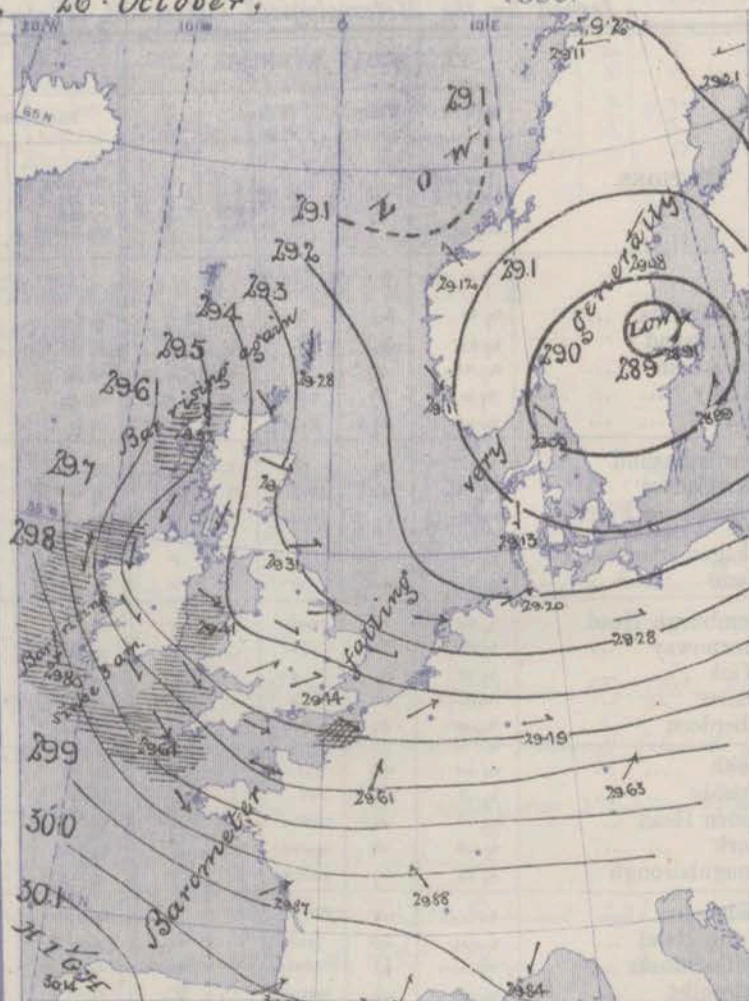
SEA DISTURBANCE—Where considerable, is shown thus:

▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.708
Stornoway	29.735
Wick	29.745
Nairn	29.761
Aberdeen	29.774
Leith	29.804
Shields	29.835
York	29.872
Loughborough	29.891
Ardrossan	29.813
Donaghadee	29.832
Holyhead	29.853
Liverpool	29.864
Parsonstown	29.881
Valencia	29.873
Roche's Point	29.870
Pembroke	29.868
Scilly	29.894
Jersey	29.904
Hurst Castle	29.907
Dover	29.909
LONDON	29.911
Oxford	29.910
Cambridge	29.900
Yarmouth	29.886



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.

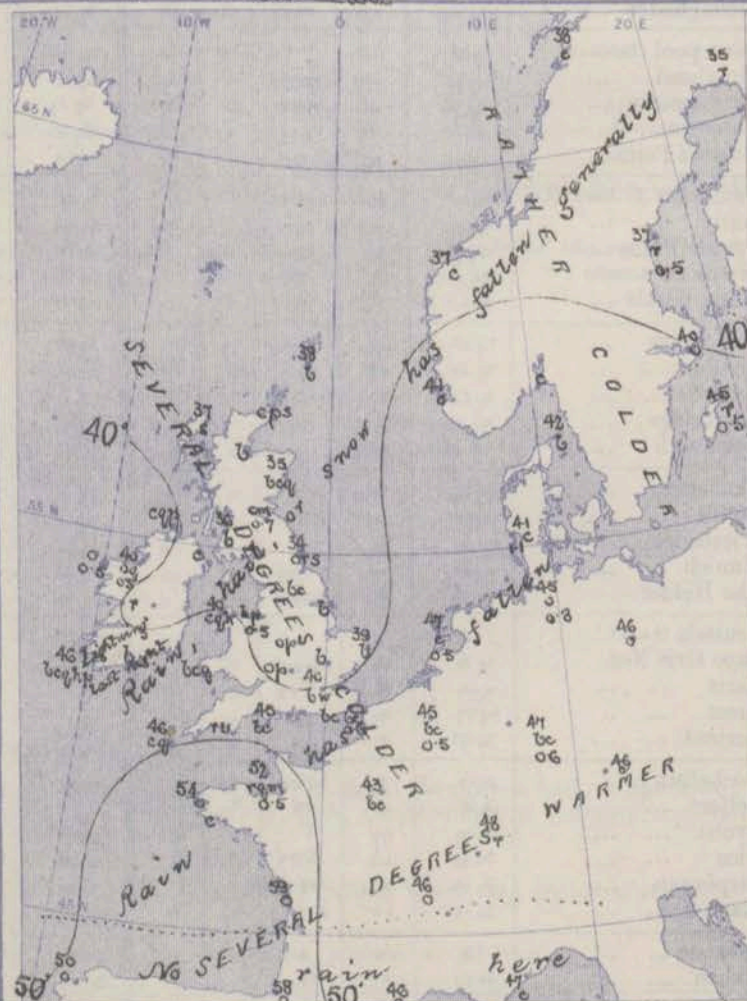
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of October.)

STATIONS,	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	49.7	41.6	46.0	44.3	4.33
Stornoway	50.5	39.5	45.3	44.1	4.94
Wick.....	51.6	40.1	46.1	44.3	2.94
Nairn.....	51.6	40.6	44.5	42.5	2.38
Aberdeen.....	52.3	41.0	45.5	43.5	2.88
Leith.....	54.7	41.5	46.5	44.7	1.94
Shields.....	53.0	42.8	47.1	45.4	2.46
York.....	54.8	41.0	45.9	44.5	2.64
Loughborough.....	55.3	41.4	46.4	45.0	2.98
Ardrossan.....	53.5	43.6	47.6	45.8	4.31
Donaghadee.....	53.2	43.3	47.7	46.5	3.35
Holyhead.....	54.5	47.0	50.2	48.2	4.53
Liverpool.....	53.6	44.6	47.8	45.8	3.62
Parsonstown.....	54.7	41.1	45.4	44.7	3.27
Valencia.....	56.6	46.5	51.3	49.1	6.09
Roche's Point.....	55.8	45.9	50.2	48.4	4.17
Pembroke.....	54.8	48.0	51.2	49.1	4.13
Scilly.....	56.6	50.3	53.8	51.7	3.84
Jersey.....	58.1	49.2	53.6	51.1	4.34
Hurst Castle.....	57.1	46.0	51.4	49.6	3.24
Dover.....	55.8	47.0	50.7	48.7	3.28
LONDON.....	56.6	43.2	48.0	46.4	2.74
Oxford.....	55.3	42.5	46.7	45.3	2.72
Cambridge.....	56.4	41.2	46.4	45.4	2.36
Yarmouth.....	54.3	44.8	49.2	47.9	2.97

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 30.2 in. and more over Spain, — 29.8 in. at Valencia Island.
lowest, 29.0 in. to 29.3 in. in a depression over the southern half of Scandinavia.
Gradients rather steep over Ireland, Cornwall and Brittany, moderate in the north and east, and irregular.
Barometer falling quickly — most in the east.

TEMPERATURE

Highest, 59° at Rochefort, 58° at Haritz, 54° at Brest, and 52° at Jersey.
lowest, 31° at Narvik, 34° at Luleå, 35° both at Haparanda and Luleå, and below 40° at our northern and eastern stations generally.
It is falling fast over the United Kingdom and North Sea generally, and the change is spreading southwards. Air very raw and unpleasant.

WIND

Blowing a gale from the N. on our extreme northwestern coasts, a strong squally breeze from NW in the Irish and English Channels and in the Netherlands. In Germany, it is moderate W, and over the North Sea moderate NW, while in the Baltic it is strong from SW. and S., and in the north of Sweden E.

WEATHER

Very unsettled. Squally in our Islands generally, with showers of wet snow and hail at some of the northern stations and of cold rain in the south. Lightning occurred at Rocher Point last night.

SEA

Rough in the northwest and west, as well as on the southern side of the Channel, high at C. Fin Ky, moderate in our east coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 27th OCT 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

The NORTH CONE has been hoisted this morning on all coasts.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.36	44	41	WNW	4	0	3		Holyhead ...	29.64	50	47	WNW	4	4
Sumburgh Head ...	29.28	38	37	WNW	3	be	4		Valencia ...	29.88	54	52	NW	3	4
Stornoway ...	29.50	44	40	N	2	0	3		Scilly ...	29.81	52	58	WSW	7	5
Aberdeen ...	29.48	44	39	WNW	4	cgn	3		Jersey ...	29.83	58	56	W	5	4
Shields ...	29.57	49	45	W	2	0	2		Dungeness ...	29.61	49	48	W	4	2
Ardrossan ...	29.52	45	42	WNW	2	0	1		London ...	29.59	50	50	Z	0	8
Malin Head ...	29.57	47	45	NW	4	0	3		Yarmouth ...	29.57	51	49	WNW	3	2
Mullaghmore ...	29.67	51	48	WNW	5	cpq	4		Rochefort ...	30.13	60	54	W	5	2
Belmullet ...	29.75	51	47	NNW	4	0	*								

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

Weather dull and unsettled over nearly the whole of Western and Central Europe, as well as in Russia, with rain in many places and snow at Munich. Fine in Sweden, as well as in Spain, Italy, Algeria, and some parts of Austria. Improvement taking place over the southern parts of the United Kingdom, but rain continuing in most other districts, and snow falling in the north of Scotland. ^{later} Snow also reported at some of the Austrian stations.

Temperature highest 67° at San Fernando, 60° at Palma, and 58° at Algiers and Malta, above 55° over the English Channel and also in the south of Ireland, but below 45° in the Riviera, and as low as 41° even at Naples. Lowest 20° at Arkharkov, 23° at Vienna, 25° at Kiev, and 26° at Cracow, below 35° over Central Spain. Daily maxima below 45° in the north of Scotland, but thermometer rising to between 55° and 60° in the southwest and south of our Islands, and exceeding 60° in Spain, Algeria, the west of France and the south of Italy.

Wind W or SW over the greater part of northwestern, northern, and central Europe, but NW in the extreme north and northwest of our Islands; strong in force over the southern parts of Ireland and England and also at some of the Baltic stations. Strong from the NW in Italy; light from the NE in Spain; variable in Algeria, Austria, and the south of Russia. Subsequently veering to NW in all parts of the United Kingdom, and increasing to a gale in the west of Ireland.

Barometer highest 30.3 ins. and upwards in the south of Russia and also over Central Spain; 30.1 ins. and upwards, in a large anticyclone covering the whole of southwestern, Central and Eastern Europe. Lowest 29.1 ins. and less, in a depression lying over Denmark. Shallow disturbances lying over the west of Ireland in morning and subsequently advancing to the Straits of Dover; other depressions appearing over our northern districts.

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, 27th October, 1890.*
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

Issued by the Hydrographic Office, 65, Victoria Street, London. H. H. SCOTT, Secretary.																		

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, 27th October,

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

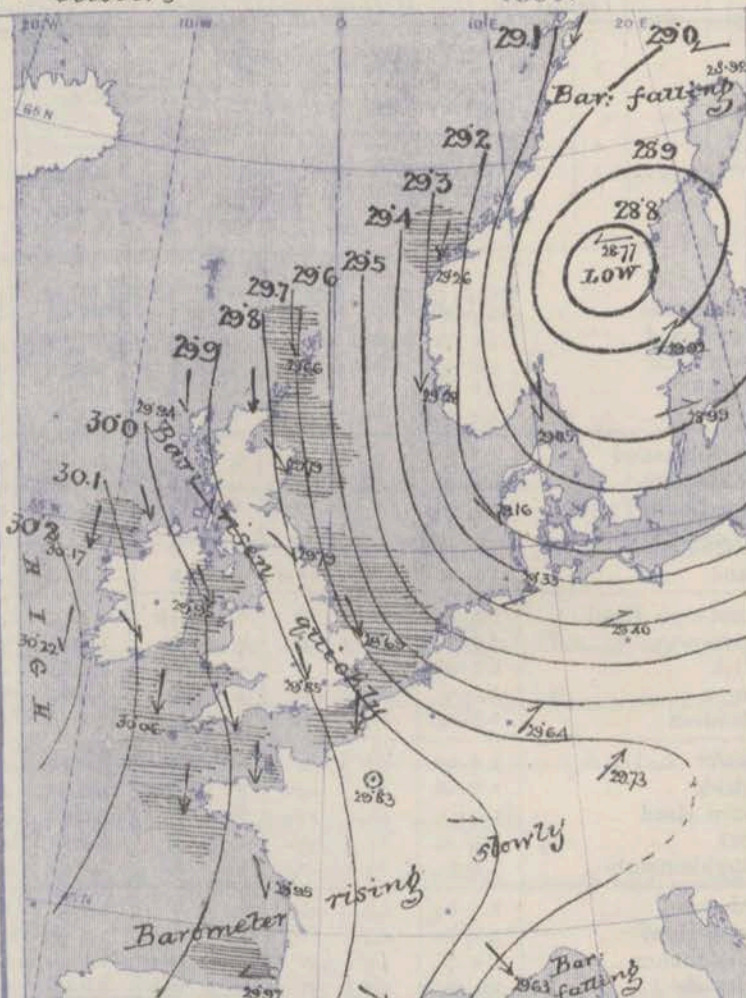
at 8.0 a.m. for the month of October.

During the 15 Years: 1871—1885.

STATIONS.

MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.708
Stornoway	29.735
Wick	29.745
Nairn	29.761
Aberdeen	29.774
Leith	29.804
Shields	29.835
York	29.872
Loughborough	29.891
Ardrossan	29.813
Donaghadee	29.832
Holyhead	29.853
Liverpool	29.864
Parsonstown	29.881
Valencia	29.873
Roche's Point	29.870
Pembroke	29.868
Selly	29.894
Jersey	29.904
Hurst Castle	29.907
Dover	29.909
LONDON	29.911
Oxford	29.910
Cambridge	29.900
Yarmouth	29.886



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.0 in. to 30.2 in. over Ireland.
Lowest, 28.8 in. and less, in a depression over Sweden, and 29.7 in. on the coast of Norfolk.
Gradients steep over the North Sea and Norway, rather so over Great Britain, moderate in Ireland.
Barometer apparently rising generally.

TEMPERATURE

Highest, 56° at Nice, 55° at Lisbon, 47° at Bally, 45° at Valencia Island, and 43° at Holyhead.
Lowest, 32° at Kaparandav, Stockholm and Loughborough, 33° at Aberdeen, Paris and Shields, 35° in London and at Birmmham.
It has been down to between 30° and 34° in the shade over Great Britain during the night, and to 27° on the grass in the south of London.

WIND

N¹ to NW¹ on our own and the French coasts, and on the eastern shores of the North Sea; in force it is moderate to strong, but blows a gale at Guernsey, Cherbourg, and Havre.
In Germany there is a moderate SW¹ breeze.

WEATHER

Rain at many of the southern and western stations, but still changeable and equally in the east and north, with a threatening appearance at Kiel, hail and sleet showers at Aberdeen, Holyhead, and Yarmouth.

SEA

Rough on all exposed parts of our coasts, and on the north coast of France.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Strong N¹ squalls and cold showers are likely to recur on our western and eastern coasts generally during today; and a sharp frost at our inland stations tonight.

FORECASTS

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

DISTRICTS.

FORECASTS.

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

NW¹ to N¹ winds, strong, to a gale in squalls; cold showers.
NW¹ winds, fresh inland, strong on the east coast, some cold showers, bright intervals, frost at night.

DISTRICTS.

FORECASTS.

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

N¹ winds, strong and squally to moderate, slight cold showers.

WARNINGS

The NORTH CONE is still flying on all coasts

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA			BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.						D.	W.	D.	F.		
Skudesnaes ...	29.97	41	38	N	2	c	3			Holyhead ...	29.56	45	40	N	6	609
Sumburgh Head ...										Valencia ...						
Stornoway ...	29.69	43	39	N	7	bc	6			Scilly ...						
Aberdeen ...										Jersey ...	29.54	51	44	WNW	6	2
Shields ...										Dungeness ...	29.36	44	40	NW	5	bc
Ardrossan ...										London ...						
Malin Head ...	29.67	46	41	N	8	bc	5			Yarmouth ...						
Mullaghmore ...										Rochefort ...	29.71	59	52	WNW	5	c
Belmullet ...	29.91	46	42	N	10	c	*									

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

Weather squally and showery in nearly all parts of the United Kingdom, with hail on our western coasts and snow in the north of Scotland. Dull and rainy at several of the Scandinavian, Russian, German and Austrian stations, as well as in the north of Italy, but fine in Denmark, the Netherlands, central France, Spain, Algeria and the south of Italy. Showers of snow or sleet occurring later over the whole of our Islands, with thunder and lightning at several of the western stations.

Temperature highest 65° at Algiers, 62° at Baghdad, and 60° at Barcelona and Le Boulle; above 55° at most of the Mediterranean stations, and also over the Bay of Biscay. Lowest (1) 28° at Warsaw, 29° at Moscow, 30° at Riga, and 31° at Buda Pesth, (2) 32° at Vienna, 34° at Shields, and 35° at Aberdeen and Leith, (3) 35° at Madrid. Daily maxima below 50° in nearly all parts of the United Kingdom, and below 45° at several of our northern and eastern stations.

Wind blowing a moderate to whole gale from the northward in the extreme northwest of our Islands, moderate to strong from the NW^W in other parts of the United Kingdom, and also on the eastern shores of the North Sea. Strong from the W^W over France and the Netherlands, from the SW^W in Germany, and from the S^W over Finland and the Baltic; light from the E^W in the north of Scandinavia, variable in Italy, N^W or NE^W in Spain and the south of France, S^W in Algeria. Subsequently increasing to a moderate or fresh gale from NW^W or N^W in nearly all parts of the United Kingdom.

Barometer highest 30.1 ins. to 30.2 ins. and upwards in a large anticyclone extending from the southern parts of the Mediterranean over Spain and the south of Italy; 30.1 ins. and upwards in another system lying over central Russia. Lowest 29.0 ins. and less in a depression lying over the south of Scandinavia. Secondary disturbances travelling southwards across our Islands during day, but barometer rising rapidly in west and north towards evening.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 13TH TO 25TH OCT. 1890

The distribution of pressure during the greater part of this week has been anticyclonic, but the system has been of a somewhat complex character, and the weather, consequently milder, more cloudy and less dry than is usual with such systems. The anticyclone lay over the Atlantic (off the west of Ireland) on Sunday; so that N^W breezes were then general with cold weather, and showers in the northern and eastern districts. It then spread slowly to the eastward, and on Tuesday was joined by another system which was developed over the eastern shores of the North Sea, and after travelling SSW^W to France became merged in the larger one in the west.

Pressure then began to give way generally, most in the north and as the Anticyclone passed southwards, W^W (SW to NW) winds moderate to strong in force set in all over the Kingdom, with mild showery weather.

At the close of the week depressions were observed in the northeast and east spreading southwards; secondary disturbances appeared in various parts of our Islands, and with a shift of wind to NW^W and N^W temperature fell and cold showers (wet snow in the north) were becoming general with squally weather, and lightning in the south of Ireland.

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.

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DAILY WEATHER REPORT.

for TUESDAY 28TH OCTOBER. 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.	
	Reading at 32° F. and Sea Level.	Dry.	Dir.	Force (0 to 12.)	Weather.	Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force (0 to 12.)	Weather.	Dir.	Force (0 to 12.)	Max.	Min.	Average of 24 hours.
SCANDINAVIA.	Haparanda ...	29.08	32	2	0	C	29.29	+20	25	25	-7	NE	2	6	•	36	?	—
	Hernösand ...	29.97	35	N	2	0	29.34	+57	31	31	-5	NNW	6	0	•	41	?	0.20
	Stockholm ...	29.15	36	WSW	4	6	29.45	+53	31	30	-1	W	2	6	•	43	?	—
	Wisby ...	29.32	41	NNW	4	6	29.47	+48	37	36	-4	WSW	4	6	•	43	36	0.04
	Bodö ...	29.22	34	NNW	6	5	29.45	+37	36	28	-6	NE	2	C	1	37	28	—
	Christiansund	29.40	36	N	7	5	29.62	+36	35	32	-1	WSW	2	6	4	37	34	0.20
	Skudesnaes ...	29.51	35	NNW	5	C	29.74	+46	34	31	-3	N	4	6	2	37	32	—
	Christiania Fjord (Pier)	29.32	40	NW	4	6	29.59	+57	37	31	-5	NNW	5	6	1	43	36	—
	Skagen (The Seaw)	29.39	32	NW	4	5	29.56	+57	37	33	-4	NE	3	6	3	45	30	0.75
	Fanö ...	29.49	38	N	2	C	29.64	+48	37	35	0	NNW	1	Chp	•	43	36	0.20
BRITISH ISLANDS.	Sumburgh Head	29.75	35	N	4	6	29.82	+16	34	33	0	2	0	0	4	37	31	0.01
	Stornoway ...	29.94	33	N	4	5	29.87	-07	40	40	+8	SW	4	0	4	40	30	0.12
	Wick ...	29.87	36	N	4	0	29.87	+00	34	32	0	W	2	0	2	44	30	0.35
	Nairn ...	29.93	35	SW	3	6	29.92	+03	38	37	+4	SW	2	0	2	40	29	0.01
	Aberdeen ...	29.88	34	NNW	4	Chp	29.96	+17	35	32	+2	W	3	C	4	38	32	0.09
	Leith ...	29.93	39	NNW	2	6	30.01	+12	34	32	-2	W	1	m	•	44	30	—
	Shields ...	29.88	35	NW	3	6	29.99	+20	30	28	-3	W	2	C	4	41	27	—
	Spurn Head ...	29.85	40	NW	6	6	30.00	+27	37	34	+1	NNW	5	6	5	42	36	—
	York ...	29.90	36	NNW	1	6	30.04	+23	27	27	-7	N	1	6	•	40	26	—
	Loughborough	29.96	34	W	1	6	30.10	+22	21	21	-11	2	0	6	•	44	20	—
GERMANY & HOLLAND.	Ardrossan ...	29.94	41	N	1	6	30.03	+11	35	34	-3	ENE	2	fd	1	44	29	—
	Malin Head ...	29.97	44	NW	4	Chp	30.00	+02	44	43	+6	NNW	3	od	3	45	38	0.23
	Mullaghmore ...	30.06	47	NW	7	200p	30.08	-01	48	47	+6	NW	5	ogp	4	49	39	0.19
	Belmullet ...	30.15	46	NNW	4	0	30.10	-07	49	46	+6	NNW	2	ogp	•	49	42	0.13
	Donaghadee ...	29.99	40	N	3	6	30.09	+10	40	39	0	W	4	0	2	35	38	0.31
	Liverpool (Bidston)	29.97	40	N	1	C	30.08	+16	37	33	-2	NE	1	6	2	45	34	—
	Holyhead ...	30.00	45	NW	6	ogp	30.09	+14	45	40	+2	NNW	1	C	2	46	35	0.04
	Parsonstown ...	30.11	48	NW	1	C	30.14	0.0	45	44	+9	2	0	0	•	?	36	0.04
	Valencia ...	30.25	47	NNW	3	C	30.23	+01	51	49	+6	NW	2	Cp	3	51	42	0.24
	Roche's Point...	30.19	46	NNW	4	6	30.18	+02	48	45	+8	NW	3	6	3	50	40	—
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.07	44	NW	5	C	30.13	+12	43	42	0	NNW	2	6	3	47	40	0.03
	Scilly ...	30.10	47	N	5	6	30.14	+08	48	46	+1	NNW	4	6	4	48	42	—
	Prawle Point ...	30.08	38	NW	3	6	30.12	+12	42	39	+1	NNW	3	6	1	48	35	0.14
	Jersey (St. Aubin's)	30.03	44	NW	3	6	30.07	+12	38	37	-1	ENE	2	cmtpg	2	49	37	0.23
	Hurst Castle ...	30.00	40	NW	3	6	30.13	+19	34	33	-2	NNW	2	6	1	46	31	—
	Dungeness ...	29.91	35	NW	2	m	30.06	+28	29	28	-6	NNW	2	m	1	43	23	—
	London ...	29.96	37	NNW	1	6	30.10	+25	25	24	-10	SW	1	6	•	44	24	—
	Oxford ...	30.00	34	NW	2	6	30.12	+21	24	24	-9	NW	1	6	•	43	23	—
	Cambridge ...	29.95	35	N	1	6	30.09	+25	31	29	-4	NW	1	6	•	45	28	—
	Yarmouth ...	29.84	35	NNW	5	6	29.99	+30	35	34	-2	NNW	3	6	4	37	30	0.70
PENINSULA.	Cuxhaven ...	29.53	39	NNW	7	7	29.78	+42	38	37	-4	W	4	6	•	45	37	0.40
	Berlin ...	29.63	40	SW	7	6	29.84	+44	39	36	-1	W	4	C	•	45	36	—
	Wiesbaden ...	29.89	36	SW	4	5	29.98	+34	38	36	-2	W	2	C	•	43	34	0.04
	Munich ...	29.89	36	SW	4	5	30.01	+28	34	33	-6	W	3	0	•	43	32	0.04
	The Helder ...	29.75	41	NNW	4	7	29.87	+38	44	39	-3	NNW	2	C	2	50	41	0.12
	Brussels (9 a.m.)	29.89	42	N	5	0	29.98	+26	39	34	-1	SW	1	C	•	41	31	0.59
	Cape Gris Nez	29.99	34	0	1	6	30.08	+25	26	26	-7	NNW	4	6	5	45	37	—
	Paris ...	29.99	43	N	5	0	30.08	+25	49	47	+4	NNW	6	7	6	48	36	—
	Brest ...	30.08	44	N	6	6	30.10	+12	48	44	+8	NNW	5	6	4	50	41	—
	Lorient ...	30.08	44	N	6	6	30.10	+12	48	44	+8	NNW	5	6	4	50	41	—
FRANCE AND BELGIUM.	Rochefort ...	30.01	47	N	3	6	30.11	+16	41	39	-3	NE	3	6	2	54	32	—
	Belfort ...	30.21	51	N	1	6	30.07	?	36	32	-10	W	1	C	•	51	29	—
	Lyons ...	30.01	38	NNW	1	6	30.07	?	37	32	-10	NNW	2	6	•	47	32	—
	Nice ...	29.64	52	2	0	C	29.72	+09	47	41	-9	NE	3	0	2	61	45	—
	Perpignan ...	29.95	50	NW	3	0	29.98	+09	45	39	-7	NW	2	0	•	55	40	—
	Biarritz ...	30.03	46	0	3	7	30.09	+12	41	39	-7	ESE	3	6	5	55	39	0.39
PENINSULA.	Corunna ...	30.06	55	N	6	6	30.18	+16	48	41	-7	N	3	6	5	63	48	—
	Lisbon ...	30.06	55	N	6	6	30.18	+16	48	41	-7	N	3	6	5	63	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

Tuesday, 28th October,

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.

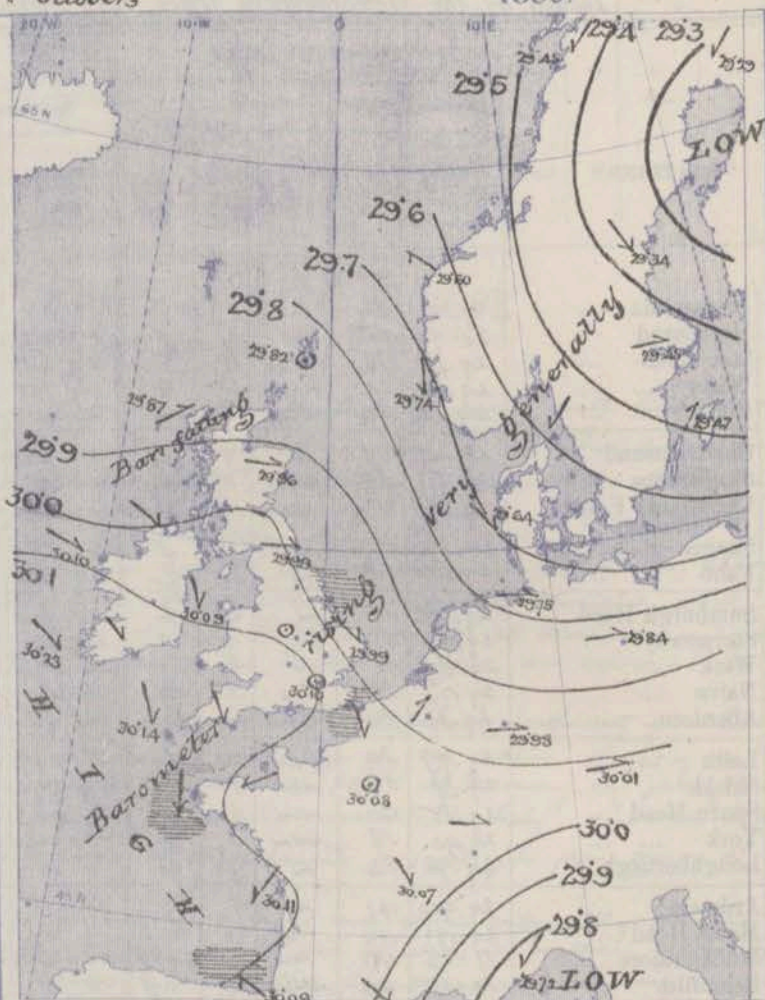
SEA DISTURBANCE—Where considerable, is shown thus:

▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of October,
during the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.708
Stornoway	29.735
Wick	29.745
Nairn	29.761
Aberdeen	29.774
Leith	29.804
Shields	29.835
York	29.872
Loughborough	29.891
Ardrossan	29.813
Donaghadee	29.832
Holyhead	29.853
Liverpool	29.864
Parsonstown	29.881
Valencia	29.873
Roche's Point	29.870
Pembroke	29.868
Selly	29.894
Jersey	29.904
Hurst Castle	29.907
Dover	29.909
LONDON	29.911
Oxford	29.910
Cambridge	29.900
Yarmouth	29.886



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.

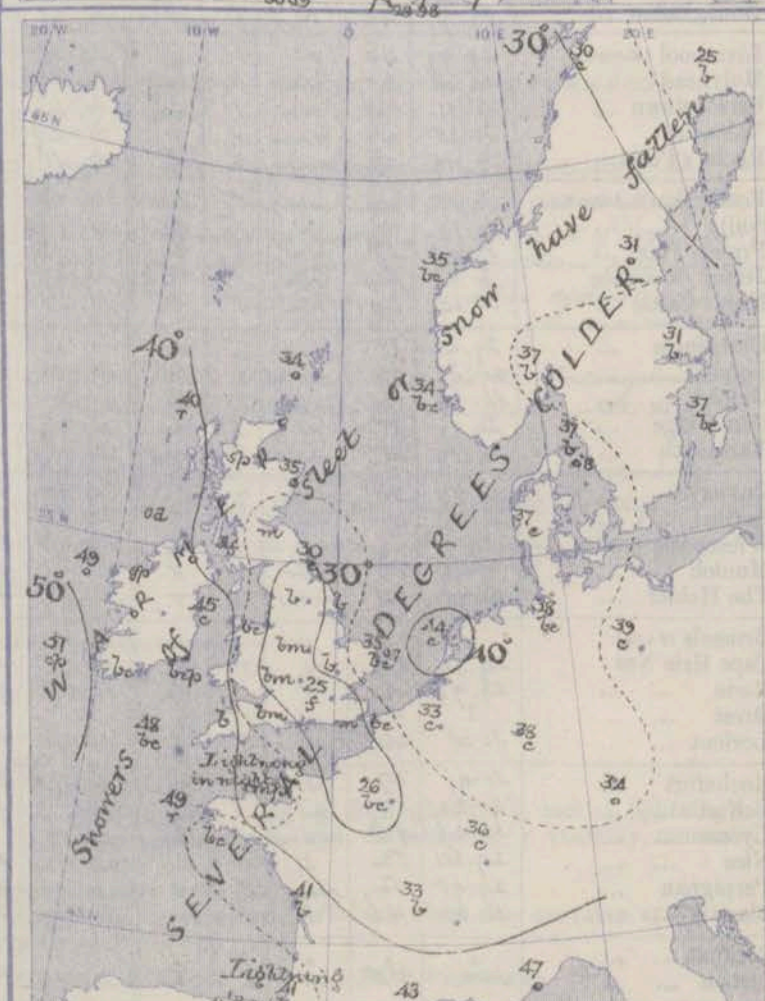
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of October.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.	at 8 a.m.	
			Dry.	Wet.	
Sumburgh Head	49.7	41.6	46.0	44.3	4.33
Stornoway	50.5	39.5	45.3	44.1	4.91
Wick	51.6	40.1	46.1	44.3	2.94
Nairn	51.6	40.6	44.5	42.5	2.38
Aberdeen	52.3	41.0	45.5	43.6	2.88
Leith	54.7	41.5	46.5	44.7	1.94
Shields	53.0	42.8	47.1	45.4	2.46
York	54.8	41.0	45.9	44.5	2.64
Loughborough	55.3	41.4	46.4	45.0	2.98
Ardrossan	53.5	43.6	47.6	45.6	4.31
Donaghadee	53.2	43.3	47.7	46.5	3.35
Holyhead	54.5	47.0	50.2	48.2	4.53
Liverpool	53.6	44.6	47.8	45.8	3.62
Parsonstown	54.7	41.1	45.4	44.7	3.27
Valencia	55.6	46.5	51.3	49.1	6.99
Roche's Point	55.8	45.9	50.2	48.4	4.17
Pembroke	54.8	48.0	51.2	49.1	4.13
Selly	56.6	50.3	53.8	51.7	3.84
Jersey	58.1	49.2	53.6	51.1	4.34
Hurst Castle	57.1	46.0	51.4	49.6	3.24
Dover	55.8	47.0	50.7	48.7	3.28
LONDON	56.6	43.2	48.0	46.4	2.74
Oxford	55.3	42.5	46.7	45.3	2.72
Cambridge	56.4	41.2	46.4	45.4	2.36
Yarmouth	54.3	44.8	49.2	47.9	2.97

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, 30.2 ins: and upwards, in an anticyclone extending from the Atlantic over the southeast of Ireland.</p> <p>Lowest, 29.3 ins: and less, over the Gulf of Bothnia; 29.8 ins: and less, over the Gulf of Genoa.</p> <p>Gradients slight generally.</p> <p>Barometer falling in the extreme west and northwest of our Islands, but rising elsewhere.</p>
TEMPERATURE	<p>Highest, 51° at Valencia Island, 49° at Kilmullet and Brest, and 48° at Mullaghmore, Rocher Point, Scilly, Lowest, and Lister.</p> <p>Lowest, 21° at Loughborough, 24° at Oxford, 25° at Caparanda and in London, 26° at Paris and 27° at York.</p> <p>During last night the sheltered thermometer fell to 20° at Loughborough to 22° at Angouleme and Oxford and to 24° in London. On the grass the thermometer in London fell to 15°.</p>
WIND	<p>Moderate from the SWnd in the Hebrides, light from the Wnd in the east of Scotland and also in Germany.</p> <p>Light or moderate from the NWnd over the greater part of Ireland and England, and strong from the same quarter in the northwest of France.</p> <p>Light from the NEnd in the north of Scandinavia, moderate from the Nnd in the south.</p>
WEATHER	<p>Fine over the greater part of England and France, as well as in Scandinavia, but foggy in London.</p> <p>Cloudy or overcast elsewhere, with rain or passing showers in the extreme west and northwest of our Islands and snow at Kilmullet.</p> <p>Showers of snow or sleet fell yesterday at all but our central and southern stations, and lightning was seen at Jersey and Biarritz.</p>
SEA	<p>Moderate or slight generally, but rather rough at Spinn Head, as well as on many parts of the French coasts.</p>

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A depression is approaching the northwest of Scotland, and freshening winds are therefore probable in the northern part of the Kingdom, with snow in many places. It is at present doubtful whether the disturbance will prove to be of sufficient size and depth to influence our more southern districts.

FORECASTS

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

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	SW ^{ly} to W ^{ly} or NW ^{ly} winds, increasing in force; dull, unsettled, some snow.
1	SCOTLAND EAST	
2	ENGLAND N.E.	W ^{ly} winds, freshening; fine to unsettled and some snow.
3	ENGLAND EAST	NW ^{ly} to W ^{ly} winds; fine at first with local fogs, less settled later, possibly some snow. very cold tonight.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	W ^{ly} to NW ^{ly} winds, increasing in force; unsettled, some cold rain or sleet.
7	ENGLAND N.W.	Same as No 2.
8	ENGLAND S.W.	NW ^{ly} winds, light or moderate; fair generally, but local showers.
9	IRELAND NORTH	Same as No 6.
10	IRELAND SOUTH	Same as No 8.
WARNINGS		NONE ISSUED.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	THER: WIND								THER: WIND						
	BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA
Skudesnaes ...	29.40	40	34	NW	6	C	3	Holyhead ...	30.00	44	40	NW	6	bc	6
Sumburgh Head ...	29.70	35	34	N	5	C	6	Valencia ...	30.20	47	43	N	4	bc	4
Stornoway ...	29.93	33	33	N	3	C	3	Scilly ...	30.01	43	40	NW	5	bc	4
Aberdeen ...	29.42	33	34	NW	4	bc	6	Jersey ...	30.01	49	42	NW	4	bc	4
Shields ...	29.33	41	35	NW	4	bc	5	Dungeness ...	29.86	38	35	NW	5	bc	4
Ardrossan ...	29.53	44	37	NW	3	C	2	London ...	29.91	44	38	NW	4	C	3
Malin Head ...	29.93	42	41	NW	4	0	3	Yarmouth ...	29.77	35	35	NW	5	bc	5
Mullaghmore ...	30.09	47	43	NW	6	C	4	Rochefort ...	30.03	50	46	NW	3	bc	?
Belmullet ...	30.17	47	44	NW	5	0	*								

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

Weather fine over the south of our Islands and the greater part of France, as well as in the southern parts of Sweden and Russia, cloudy or overcast in nearly all other localities, with snow and hailshowers in the northwest, north, and east of our Islands, rain over Germany and the north of Italy, and thunder at Biarritz. Snow also reported at Khabaranda and Petersburg. Showers falling during day in all but the central and southern parts of the United Kingdom; lightning seen in evening at Jersey and Biarritz.

Temperature highest 65° at Malta and Algiers, 64° at Palermo, 63° at Cagliari, and 62° at Legna. Oran and Tunis, above 55° at nearly all the Mediterranean stations. Lowest (1) 32° at Stornoway and Loughborough, and 33° at Aberdeen, Shields, and Oxford; (2) 33° at Paris, and 35° at Le Mans; (3) 32° at Khabaranda, and 33° at Archangel, Krasnodar, and Petersburg. Daily maxima below 45° in all the more northern, eastern, and southeastern parts of the United Kingdom and as low as 37° at Yarmouth. Severe frost over England at night.

Wind NW or N over the whole of Western Europe, strong in force over the North Sea and the more exposed parts of the British and Irish coasts. Fresh or strong from the SW in Germany, light from the S or SE in Russia; E in the north of Sweden. Moderate from the SW in Italy, and from the S in Algeria. Wind moderating somewhat on our coasts later, and backing slightly in the extreme northwest.

Barometer highest 30.2 in: and upwards in an anticyclone lying to the southward of our Islands and also in another system over Asia Minor. Lowest, 28.8 in: ^{and less} in a well marked depression lying over Central Sweden; small secondary disturbances passing across various parts of Northwestern and Central Europe, and gradients steep in places. Depression subsequently moving northeastwards, anticyclone to the southwestward of our Islands spreading slightly eastwards.

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, 29th October, 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 10.)	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 ...	29.51	25	N	2	0	29.58	+ .19	19	18	- 6	2	0	c	*	36	?	-	
	Hernösand ...	29.65	25	N	0	6	29.65	+ .31	20	20	- 11	N	0	b	*	37	?	-	
	Stockholm ...	29.70	32	W	2	0	29.80	+ .35	28	26	- 3	SW	2	b	*	39	28	-	
	Wisby ...	29.75	38	SW	4	60	29.86	+ .39	35	33	- 2	WSW	4	b	*	41	32	0.16	
	Bodö ...	29.58	25	N	0	6	29.36	- .09	25	23	- 5	E	4	b	2	30	21	-	
	Christiansund	29.60	33	NW	3	60	28.95	- .64	37	36	+ 2	ESE	4	0	3	37	34	0.16	
	Skudesnaes ...	29.71	43	S	6	0	29.18	- .66	51	50	+ 17	SW	8	r	7	?	34	0.67	
	Christiania Fjord (Fæder)	29.75	41	WSW	2	6	29.47	- .12	45	42	+ 8	S	7	r	5	?	?	-	
	Skagen (The Scaw)	?	37	W	1	6	29.60	+ .04	42	40	+ 5	SW	7	r	5	42	27	0.04	
	Fanö ...	29.91	39	W	3	6	29.72	+ .08	46	43	+ 9	SSW	6	c	*	46	34	0.12	
BRITISH ISLANDS.	Sumburgh Head	29.88	43	S	4	r	29.01	- .81	50	50	+ 16	W	4	r	5	50	34	0.67	
	Stornoway ...	29.47	52	SW	7	r	29.25	- .62	54	53	+ 14	W	7	r	6	54	38	1.25	
	Wick ...	29.40	48	SW	3	r	29.18	- .69	54	52	+ 20	NW	3	r	2	54	34	0.54	
	Nairn ...	29.49	47	SSW	4	r	29.24	- .63	55	54	+ 17	W	5	or	3	55	37	0.14	
	Aberdeen ...	29.63	39	SSW	5	grq	29.34	- .62	52	49	+ 17	S	3	og	4	54	35	0.33	
	Leith ...	29.74	45	W	2	c	29.50	- .51	55	52	+ 21	W	5	c	*	55	33	-	
	Shields ...	29.57	43	W	2	d	29.62	- .37	53	50	+ 23	SW	3	0	3	53	28	0.12	
	Spurn Head ...	30.02	40	SW	4	c	29.78	- .22	49	48	+ 12	SW	4	0	4	49	36	0.26	
	York ...	29.98	40	SSW	2	0	29.76	- .28	51	50	+ 24	W	3	0	*	52	26	0.28	
	Loughborough	30.08	37	SW	1	0	29.88	- .22	49	47	+ 28	SW	3	0	*	49	21	0.10	
GERMANY & HOLLAND.	Ardrossan ...	29.79	52	SW	3	r	29.57	- .46	54	53	+ 19	WSW	5	r	5	54	35	0.22	
	Malin Head ...	29.82	51	W	7	or	29.54	- .46	53	53	+ 9	SW	7	or	4	53	44	0.23	
	Mullaghmore ...	29.98	52	W	7	orq	29.73	- .25	54	53	+ 6	SW	7	or	6	55	48	0.10	
	Belmullet ...	30.04	53	W	4	0	29.74	- .36	55	54	+ 6	W	7	orv	*	55	49	0.15	
	Donaghadee ...	29.93	49	W	4	r	29.72	- .37	53	52	+ 13	W	3	0	1	56	40	0.13	
	Liverpool (Bidston)	30.01	45	SW	3	0	29.81	- .27	52	50	+ 15	WSW	6	0	4	53	37	0.06	
	Holyhead ...	30.04	49	W	2	og	29.88	- .21	53	52	+ 8	WSW	5	ogm	4	53	42	0.15	
	Parsonstown ...	30.09	50	SW	1	0	29.91	- .23	53	51	+ 8	SW	2	c	*	54	44	-	
	Valencia ...	30.20	53	WSW	2	0	30.04	- .19	56	55	+ 5	WSW	5	op	5	56	49	0.07	
	Roche's Point...	30.17	50	WSW	3	60	30.03	- .15	53	50	+ 3	W	4	c	4	53	48	-	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.11	50	W	3	c	30.00	- .13	54	53	+ 11	WSW	5	c	5	54	43	0.05	
	Scilly ...	30.28	51	WSW	3	c	30.14	- .00	53	53	+ 5	W	5	60	3	53	48	0.01	
	Prawle Point ...	30.18	46	WSW	3	60	30.11	- .01	52	50	+ 10	WSW	4	60	3	52	41	0.03	
	Jersey (St. Aubin's)	30.20	45	WSW	3	6	30.14	+ .07	53	51	+ 15	W	4	orpm	3	53	38	0.11	
	Hurst Castle ...	30.17	40	WSW	2	60m	30.06	- .07	51	50	+ 17	W	5	c	2	52	33	0.01	
	Dungeness ...	30.12	36	N	1	m	30.03	- .03	50	48	+ 21	WSW	4	0	3	52	28	-	
	London ...	30.14	33	SW	1	b	29.99	- .11	47	46	+ 22	SSW	1	c	*	47	25	0.02	
	Oxford ...	30.12	38	WSW	1	0	29.98	- .14	48	47	+ 24	SW	1	c	*	48	24	0.01	
	Cambridge ...	30.11	32	WSW	1	6	29.94	- .15	48	47	+ 17	SW	2	0	*	49	29	0.08	
	Yarmouth ...	30.04	38	WSW	3	60m	29.86	- .13	45	44	+ 10	W	3	6	2	45	33	0.02	
PENINSULA.	Cuxhaven ...	29.96	39	N	2	60	29.94	+ .19	33	33	- 5	SSW	3	c	*	42	33	0.20	
	Berlin ...	30.02	37	W	3	6	30.12	+ .28	31	30	- 8	WSW	2	6	*	43	28	-	
	Wiesbaden ...	*	*	*	*	*	30.19	+ .21	30	29	- 8	N	0	6	*	43	28	-	
	Munich ...	30.08	33	SW	1	0	30.18	+ .17	32	31	- 2	SE	3	6	*	39	30	-	
	The Helder ...	30.03	40	SE	1	r	29.86	- .01	46	45	+ 2	SW	5	r	4	46	39	0.24	
	Brussels (9 a.m.)	*	*	*	*	*	30.12	?	36	33	+ 3	SSW	4	0	*	42	32	0.04	
	Cape Gris Nez	30.08	42	NW	3	60	30.00	+ .01	48	47	+ 9	W	5	r	3	?	?	-	
	Paris ...	30.18	33	N	1	60	30.23	+ .15	25	25	- 1	S	1	60	*	44	24	-	
	Brest ...	30.22	48	N	1	0	?	?	52	50	+ 3	NW	3	0	4	52	37	0.04	
	Lorient ...	30.22	48	NNE	3	6	30.20	+ .10	51	49	+ 3	WSW	3	0	3	51	43	-	
PENINSULA.	Rochefort ...	30.15	42	E	3	60	30.26	+ .15	40	39	- 1	SE	3	c	*	46	32	-	
	Belfort ...	?	37	W	1	6	?	?	25	23	- 11	W	1	6	*	50	23	-	
	Lyons ...	30.10	33	NW	3	6	30.19	+ .12	32	29	- 1	WSW	4	6	*	41	31	-	
	Nice ...	29.71	50	W	5	60	29.84	+ .12	45	37	- 2	NNE	4	c	3	55	21	-	
	Perpignan ...	30.06	45	NW	4	6	30.11	+ .13	41	35	- 2	W	6	6	*	51	39	-	
	Biarritz ...	30.15	46	SW	3	r	30.28	+ .19	36	35	- 5	SE	3	m	4	52	34	0.12	
	Corunna ...	*	*	*	*	*	30.40	+ .22	50	42	+ 2	N	4	6	2	59	46	-	
	Lisbon ...	30.31	53	N	5	6												-	

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, 29th October,

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.

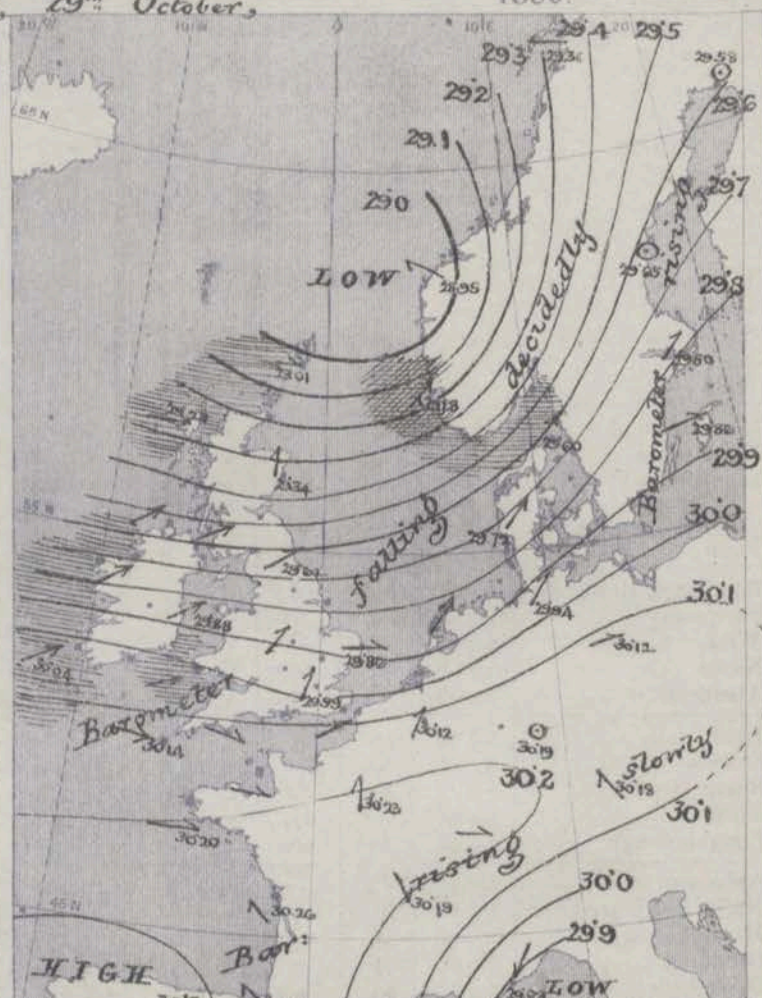
SEA DISTURBANCE—Where considerable, is shown thus:

▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS.
Sunbury Head	29.708
Stornoway	29.735
Wick	29.745
Nairn	29.761
Aberdeen	29.774
Leith	29.804
Shields	29.835
York	29.879
Loughborough	29.891
Ardrossan	29.813
Donaghadee	29.832
Holyhead	29.853
Liverpool	29.864
Parsonstown	29.881
Valencia	29.873
Roche's Point	29.870
Pembroke	29.868
Scilly	29.894
Jersey	29.904
Hurst Castle	29.907
Dover	29.909
LONDON	29.911
Oxford	29.910
Cambridge	29.900
Yarmouth	29.886



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.

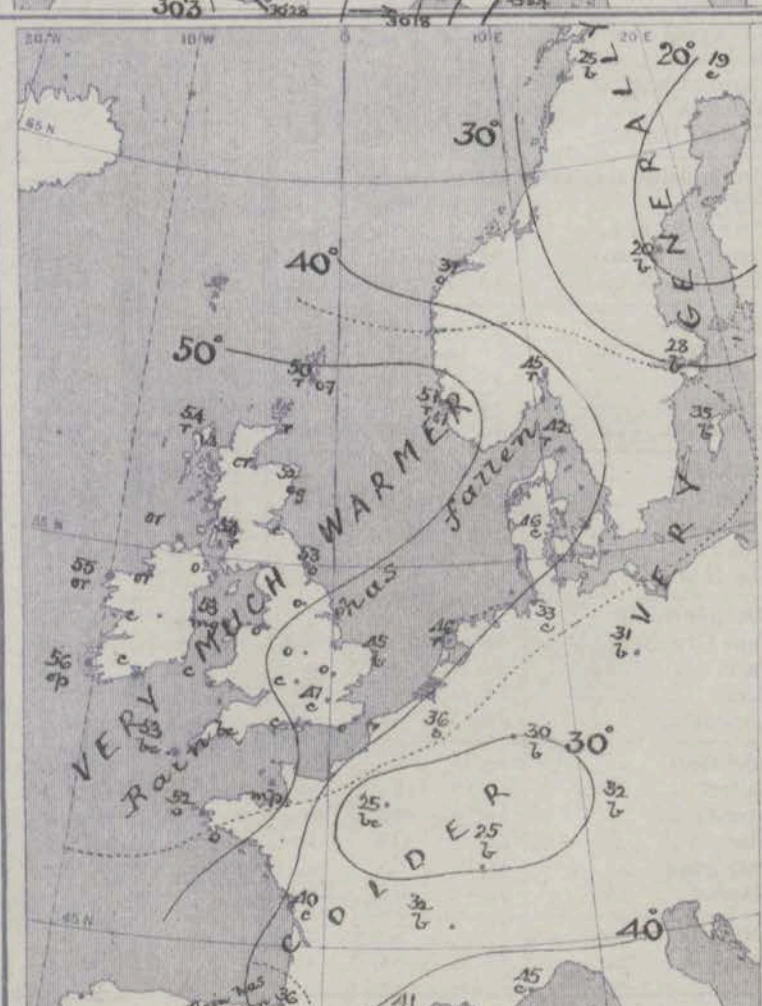
WEATHER is shown by Letters of the Beaufort Scale.

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 October.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sunburgh Head.....	49.7	41.6	46.0	44.3	4.33
Stornoway	50.5	39.5	43.3	44.1	4.94
Wick.....	51.6	40.1	46.1	44.3	2.94
Nairn.....	51.6	40.6	44.5	42.5	2.38
Aberdeen	52.3	41.0	45.5	43.5	2.88
Leith.....	54.7	41.5	46.5	44.7	1.94
Shields.....	53.0	42.8	47.1	45.4	2.46
York.....	54.8	41.0	45.9	44.5	2.64
Loughborough	55.3	41.4	46.4	45.0	2.98
Ardrossan	53.5	43.6	47.6	45.6	4.31
Donaghadee.....	53.2	43.3	47.7	46.5	3.35
Holyhead.....	54.5	47.0	50.2	48.2	4.53
Liverpool.....	53.6	44.6	47.8	45.8	3.62
Parsonstown	54.7	41.1	45.4	44.7	3.27
Valencia.....	50.6	46.5	51.3	49.1	6.09
Roche's Point.....	55.8	45.9	50.2	48.4	4.17
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Yarmouth.....	54.3	44.8	49.2	47.9	2.97

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, 30.40 in. and upwards, in an anticyclone lying off the Portuguese coast.

Lowest, 29.0 in. in a large depression lying off the west of Norway.

Gradient steep over Scandinavia, the North Sea, and the northern parts of our Islands, but slight in the south.

Barometer falling at all but the Swedish and Danish stations, - quickly in the north and northwest.

TEMPERATURE

Highest, 56° at Valencia Island, 55° at Narvik, Leith, and Kilmullet, and 54° at Stornoway, Kirk, Ardara, Mullaghmore and Loughbeg.

Lowest, 15° at Haparanda, 20° at Helsingfors, 24° at Belfast, 25° at Brest and Paris, 28° at Stockholm, and 30° at Nisebuden.

A rapid rise has taken place over Great Britain, the change since yesterday morning amounting to 24° at York and Oxford, and 28° at Loughborough.

WIND

SW and W in our Islands; strong to a gale in force on our extreme northwest coasts.

Strong to a gale from SW or S. in the south of Norway.

Moderate from the E. in the coast of Norway, and light from the same quarter in the southwest of France.

WEATHER

Dull and unsettled over the greater part of Northwestern Europe, with rain in the north of our Islands and the south of Scandinavia.

Fine in the east of England and also in Sweden, Germany, and France.

Since yesterday morning rain has fallen in all parts of the United Kingdom, the largest amount being 1.3 in. at Stornoway and 0.7 in. at Sumburgh Head.

SEA

High at Skidean and rather rough on all the more exposed parts of our western and northern coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Since last night the wind has backed to the SW. in the north of Ireland, while the baric fall there has become rather more decided. A secondary disturbance is probably about to pass across our northern districts.

FORECASTS

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

DISTRICTS.

FORECASTS.

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

W¹ to NW² winds, increasing in force; squally, rain at times.

Same as No 5

SW³ to W⁴ winds, increasing in force; cloudy, squally, some rain.

DISTRICTS.

FORECASTS.

- 1 SCOTLAND WEST
- 2 ENGLAND N.W.
- 3 ENGLAND S.W.
- 4 IRELAND NORTH
- 5 IRELAND SOUTH

SW² to NW³ strong winds and gales; squally, rainy.

W³ to NW⁴ strong winds and gales; squally showery

Same as No 6 and 7

Same as No 8.

WARNINGS

The NORTH CONE was hoisted yesterday in all districts excepting 5 and parts of 3 and 8.

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

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

YESTERDAY'S 2 P.M. REPORTS.

THER: WIND								THER: WIND							
BAR:		D.	W.	D.	F.	WEA.	SEA	BAR:		D.	W.	D.	F.	WEA.	SEA
Skudesnaes ...	29.79	41	38	W	1	c	2	Holyhead ...	30.08	48	45	SW	2	7g	2
Sumburgh Head ...	29.61	41	40	SW	2	r	4	Valencia ...	30.22	51	50	W	3	0g	3
Stornoway ...	29.49	49	49	W	6	r	5	Scilly ...	30.19	52	50	W	3	0	3
Aberdeen ...	29.82	39	36	SW	4	ogp	4	Jersey ...	30.16	49	43	N	3	6c	3
Shields ...	29.97	42	36	W	2	c	4	Dungeness ...	30.09	45	38	N	1	6	0
Ardrossan ...	29.92	49	48	W	5	o	3	London ...	30.12	44	40	W	2	6m	*
Malin Head ...	29.91	50	49	W	5	o	3	Yarmouth ...	30.02	43	38	W	4	6c	3
Mullaghmore ...	30.04	52	50	SW	5	ogp	4	Rochefort ...	30.11	46	42	W	2	0	4
Belmullet ...	30.08	53	51	W	3	o	*								

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

Weather fine over the greater part of England, France, and Spain, as well as in Scandinavia, but foggy in London. Cloudy or overcast in nearly all other countries with rain in the extreme west and northwest of our Islands, and also in some parts of Russia, Germany, Italy, and Algeria; snow showers reported at Nain. Rain falling later in nearly all parts of the United Kingdom — heavily in the north of Scotland.

Temperature highest 70° at Malta, 65° at La Cella, 64° at Tunis, and 62° at Palermo and Sfax; above 55° at nearly all the Mediterranean stations. Lowest, 21° at Loughborough, 24° at Oxford, 25° at Haparanda and in London, 26° at Paris, and 27° at York; below 32° over the inland parts of England and France generally and also in Sweden. Considerable rise taking place over England later, but weather remaining very cold over Central France.

Wind light to moderate from SW or W. over the northern parts of our Islands as well as over Germany and the Baltic. NW or N over the southern parts of the United Kingdom, and also in Scandinavia, Denmark, the Netherlands, France, and Spain. Light or moderate from the SW or SE in Italy and from the SW in Algeria. Subsequently increasing to a moderate gale from SW and W. over the northern and northwestern parts of our Islands, and backing to the W in the south.

Barometer highest 30.2 ins. and upwards, in an anticyclone extending from the Atlantic over the southwest of Ireland, and the northwest of Spain, as well as in another system lying over the Black Sea. Lowest 29.3 ins. and less, in an elongated depression lying over Lapland and the White Sea, 29.6 ins. and less, in another disturbance lying over Sardinia. New depression of considerable size and depth advancing later to the north of Scotland, and barometer falling quickly in the north of our Islands.

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, 30th October, 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.		
		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 ...		29.47	32	SE	4	0	28.96	-.62	33	33	+ 14	SSE	8	S	*	?	?	0.67
Hernösand ...		29.07	37	S	9	T	28.71	-.94	37	37	+ 19	SSW	2	b	*	43	18	0.83
Stockholm ...		29.95	38	SSW	2	T	29.08	-.72	43	40	+ 18	SSW	6	b	*	?	?	0.35
Wisby ...		29.58	41	SW	8	T	29.28	-.58	45	44	+ 10	SW	8	bc	*	?	82	0.47
Bodö ...		28.88	33	E	8	0	28.75	-.61	34	33	+ 9	ESE	2	S	1	34	23	-
Christiansund		28.73	41	SW	4	bc	28.88	-.07	42	40	+ 5	WNW	6	T	5	45	?	0.24
Skudesnaes ...		29.12	46	WNW	8	0	29.48	+ .30	45	40	- 6	WNW	8	C	7	52	41	0.79
Christiania Fjord (Færder)		28.98	52	SSW	9	b	29.09	-.38	48	44	+ 3	W	7	b	5	52	?	0.04
Skagen (The Scaw)		29.14	50	SW	8	0	29.25	-.35	47	44	+ 5	W	8	b	5	50	41	0.55
Fanö ...		29.45	51	WNW	6	T	29.62	-.10	47	43	+ 1	WNW	6	b	*	52	46	0.55
Sumburgh Head		29.09	44	W	6	bc	29.66	+ .65	41	38	- 9	WNW	4	C	6	51	39	0.11
Stornoway ...		29.50	46	N	6	e	29.83	+ .58	43	42	- 11	SW	3	0	3	54	38	0.10
Wick ...		29.40	44	WNW	6	0	29.84	+ .66	38	36	- 16	W	2	C	1	54	34	0.03
Nairn ...		29.48	47	W	5	C	29.87	+ .58	39	38	- 16	SW	1	C	1	58	35	0.01
Aberdeen ...		29.43	48	WNW	8	bq	29.89	+ .53	39	36	- 13	WSW	2	bc	3	59	38	-
Leith ...		29.49	54	W	5	b	29.90	+ .40	41	39	- 14	W	1	bm	*	57	39	-
Shields ...		29.51	55	SW	4	b	29.91	+ .29	40	38	- 13	W	2	bc	2	57	37	-
Spurn Head ...		29.64	52	W	5	0	29.92	+ .14	45	43	- 4	N	3	bcm	3	54	44	-
York ...		29.62	54	SW	3	0	29.96	+ .20	41	40	- 10	WNW	1	b	*	56	38	0.02
Loughborough		29.75	53	WNW	4	0	29.95	+ .07	50	49	+ 1	NNE	1	cm	*	56	49	-
Ardrossan ...		29.62	53	W	4	b	29.91	+ .34	44	41	- 10	Z	0	bm	0	56	41	0.05
Malin Head ...		29.65	53	WNW	5	op	29.92	+ .38	48	44	- 5	SW	2	C	2	54	44	0.05
Mullaghmore ...		29.76	55	W	6	opm	29.96	+ .23	46	45	- 8	Z	0	0	2	57	44	0.12
Belmullet ...		29.78	55	W	4	0	29.95	+ .21	51	51	- 4	WSW	1	om	*	56	49	0.12
Donaghadee ...		29.68	55	W	4	0	29.96	+ .24	42	41	- 11	W	3	m	1	57	38	0.02
Liverpool (Bidston)		29.71	55	WSW	6	0	29.95	+ .14	48	46	- 4	N	2	0	2	57	47	0.03
Holyhead ...		29.77	57	W	5	og	29.97	+ .09	51	47	- 2	N	1	bc	2	57	50	0.03
Parsonstown ...		29.82	56	SW	2	0	29.99	+ .08	51	50	- 2	Z	0	0	*	57	51	0.06
Valencia ...		29.95	57	W	5	om	30.02	- .02	54	54	- 2	Z	0	g	1	57	52	0.33
Roche's Point ...		29.91	56	W	4	bc	30.00	- .03	52	50	- 1	N	2	bc	3	58	50	0.01
Pembroke (St. Ann's Hd.)		29.85	55	WSW	6	0	29.97	- .03	56	55	+ 2	N	2	cf	4	56	54	0.05
Scilly ...		29.99	56	W	5	m	30.02	- .12	55	55	+ 2	WNW	5	f	5	57	52	0.05
Prawle Point ...		29.97	55	W	5	T	29.96	- .15	55	55	+ 3	WNW	4	C	2	56	51	0.06
Jersey (St. Aubin's)		30.06	55	W	3	cp	29.98	- .16	58	57	+ 5	WSW	4	opm	3	58	51	0.50
Hurst Castle ...		29.95	56	WSW	6	cp	29.95	- .11	55	55	+ 4	W	2	adm	2	58	51	0.02
Dungeness ...		29.87	54	WSW	5	0	29.93	- .10	53	52	+ 3	WNW	2	0	2	57	49	0.02
London ...		29.88	54	SW	3	0	29.94	- .05	53	52	+ 6	WSW	1	0	*	59	47	0.01
Oxford ...		29.83	53	SSW	4	0	29.95	- .03	52	52	+ 4	SW	1	om	*	57	47	-
Cambridge ...		29.81	53	SW	3	0	29.95	+ .01	52	50	+ 4	N	1	b	*	57	47	-
Yarmouth ...		29.75	52	W	5	C	29.89	+ .03	48	47	+ 3	W	1	bm	2	53	44	0.01
GERMANY & HOLLAND.																		
Cuxhaven ...		29.80	47	SSW	6	T	29.78	- .16	47	46	+ 14	WNW	2	C	*	48	?	0.14
Berlin ...		30.01	36	S	4	b	29.84	- .25	38	36	+ 7	SW	5	0	*	43	?	-
Wiesbaden ...		*	*	*	*	*	30.05	- .14	39	37	+ 9	Z	0	0	*	43	?	-
Munich ...		30.15	30	NE	1	b	30.14	- .04	29	28	- 3	SW	4	b	*	39	25	-
The Helder ...		29.62	53	SW	4	T	29.86	.00	51	49	+ 5	WNW	1	C	3	54	46	0.24
FRANCE AND BELGIUM.																		
Brussels (9 a.m.)		*	*	*	*	*	29.95	- .17	44	44	+ 7	SW	4	0	*	?	?	0.08
Cape Gris Nez		29.86	55	W	5	0	29.89	- .11	55	54	+ 7	WNW	3	0	4	57	46	0.12
Paris ...		30.13	41	S	3	T	30.01	- .22	45	44	+ 20	SW	2	T	*	45	?	0.08
Brest ...		30.11	56	W	3	0	30.04	?	56	56	+ 4	WNW	3	b	0	57	50	-
Lorient ...		30.17	53	WNW	4	bc	30.06	- .14	55	55	+ 4	W	3	f	3	55	50	-
Rochefort ...		30.19	51	SW	3	0	30.07	- .19	55	54	+ 15	W	5	T	4	55	?	0.32
Belfort ...		30.12	37	W	1	b	30.12	?	28	22	+ 3	W	1	b	*	44	23	-
Lyons ...		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-
Nice ...		29.95	46	NE	4	0	29.92	+ .08	47	38	+ 2	E	2	b	1	50	41	0.04
Perpignan ...		30.14	45	WNW	4	b	30.11	.00	48	43	+ 7	W	4	C	*	50	?	-
Biarritz ...		30.25	47	SSE	3	0	30.16	- .12	52	51	+ 16	SSW	3	T	2	?	?	0.04
PENIN- SULA.																		
Corunna ...		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-
Lisbon ...		30.41	55	WNW	5	b	30.38	- .02	54	50	+ 4	WNW	3	b	?	64	?	-

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, 30th October,

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 6 to 7; → = forces 1 to 4.
○ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

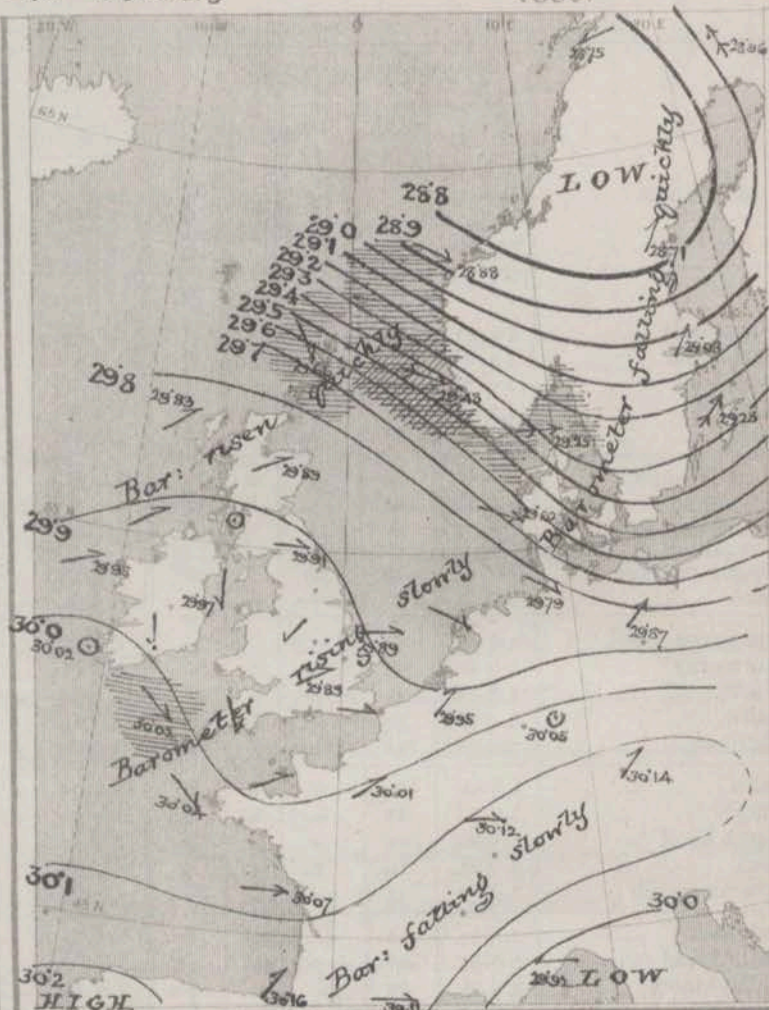
■ = Rough. ■ = High.

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Seilly	29.894
Jersey	29.904
Hurst Castle	29.907
Dover	29.909
LONDON	29.911
Oxford	29.916
Cambridge	29.900
Yarmouth	29.886



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WEATHER—is shown by Letters of the Beaufort Scale.

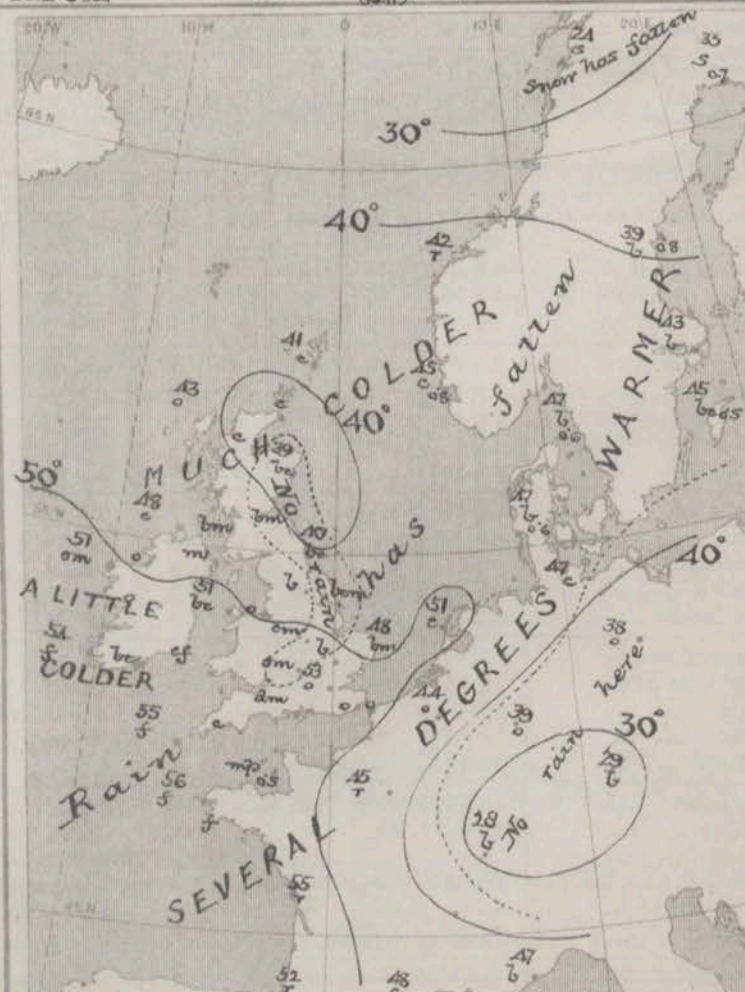
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.1 in. or more are quoted in figures.

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(For the month of October.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
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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 Portugal.</p> <p>Lowest, 28.8 ins; and less, in a large depression lying over the north of Scandinavia.</p> <p>Gradient steep over Denmark and the southern part of Scandinavia, but slight elsewhere.</p> <p>Barometer falling quickly in Sweden, and slightly in France and Germany, but rising elsewhere.</p>
TEMPERATURE	<p>Highest, 58° at Jersey, 56° at Bournemouth and Brest, 55° at Scilly, Pauillac, Hurst Castle, Lorient, and Hookfort.</p> <p>Lowest, 28° at Brest, 28° at Munich, 33° at Haparanda, 34° at Rode, and 38° at Niek and Abudon.</p> <p>During yesterday the thermometer rose to between 55° and 59° in nearly all parts of the United Kingdom.</p>
WIND	<p>Light from the SWnd in the north of our Islands; strong to a gale from W. in Norway and Denmark, and from SW. or S. in Sweden.</p> <p>Light from the NWnd or NNWnd in the central and southern parts of our Islands, moderate from W. or SW. in Germany and France.</p> <p>A strong NWth gale blew last night in the east of Scotland, and a hurricane is said to have occurred at Helsingland.</p>
WEATHER	<p>Fine in the northern and eastern parts of Great Britain, as well as in Sweden, Denmark, and the south of France.</p> <p>Dull elsewhere, with fog in the southwest of France, and snow in the north of Scandinavia.</p> <p>Rain fell yesterday in many parts of the United Kingdom, but the amounts were in most cases slight.</p>
SEA	<p>Rough on the Norwegian coast and also at Sumburgh Hd, rather rough at Scilly, but moderate to smooth elsewhere.</p>

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The wind is again backing to the SWnd on our north and northwest coasts, so that fresh disturbances are probably advancing from the Atlantic. The ridge of high pressure which is now passing across our Islands is likely to bring cold foggy weather for a time to our more central and southern districts.

FORECASTS

For the 24 hours ending at NOON on 31st OCT^r 1890.

DISTRICTS.

FORECASTS.

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

- SWth winds, freshening; fair to unsettled and some rain.
- NWth to Wth winds, light; fair generally.
- NWth and Wth winds, light; fair generally, but local fogs, becoming temporarily colder.

DISTRICTS.

FORECASTS.

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

Same as No 0 and 1

Same as No 2

NWth winds, light; fair generally
SWth winds freshening; dull, unsettled, some rain.
Variable breezes, finally SWth; fair to dull and some rain.

WARNINGS

The NORTH CONE has been lowered this morning in districts 1, 2, 7, 10 and parts of 8 and 9.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.08	51	51	WSW	6	r	7		Holyhead ...	29.75	55	54	WSW	6	o q m
Sumburgh Head ...	29.04	46	43	W	5	bc	5		Valencia ...	29.96	57	56	W	6	om
Stornoway ...	29.38	49	45	W	6	c	6		Scilly ...	30.08	56	56	W	5	r
Aberdeen ...	29.31	38	33	W	4	egp	4		Jersey ...	30.11	50	54	W	3	6
Shields ...	29.51	56	52	WSW	5	o	2		Dungeness ...	29.94	56	52	WSW	5	c
Ardrossan ...	29.49	56	54	W	7	c	5		London ...	29.92	59	55	WSW	3	c
Malin Head ...	29.57	53	52	WSW	6	o	4		Yarmouth ...	29.81	53	51	WSW	5	c
Mullaghmore ...	29.71	56	55	W	6	o	5		Rochefort ...	30.34	52	49	SSE	3	c
Belmullet ...	29.77	56	56	W	6	o	*								

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

Weather in morning clear and bright on the Swedish coast and in many parts of central, southern, and southeastern Europe, cloudy or overcast elsewhere, with fog or rain at several of the northern and northwestern stations; unsettled over the British Islands and North Sea. Rain at times during day over Northwestern Europe generally, but amounts registered not large except at Jersey, where more than half an inch fell.

Temperature risen rapidly over the United Kingdom and North Sea — as much as 20° to 28° over our midland and northern counties; fallen decidedly in the south of France and over Central Europe. Morning readings exceeding 60° over some parts of Southern Europe, and exceeding 50° over the British Islands generally and on the Spanish coasts; much lower elsewhere. Lowest (1) 19° at Haparanda, 20° at Hernösand, 25° at Bodö and 28° at Stockholm, (2) 25° at Paris and Belfort, 26° at Limoges, 30° at Le Mans and Nîmes, and 31° to 34° at the German stations as a whole. Rising to between 55° and 59° over the British Isles later.

Wind SW² to W² over the British Isles — moderate to fresh over the southern districts, strong to a gale in the north west; SW² to S² on the eastern shore of the North Sea, and strong to a gale in many places; very light and variable over central parts of France, Germany and Russia; N² to NE² over Southern Europe — strong to a moderate ^{gale} in places. Strong NW³ gale in east of Scotland later, and strong W¹ breezes on our northwest coasts.

Barometer highest, 30.4 in.: to 30.2 in. and more over Spain and the western and central parts of France, and 30.2 in. (and more) to 30.1 in.: over the southern half of Russia; exceeding 30.1 in.: in a "Col" over Germany. Lowest, 29.0 in. and less, in a depression off the west of Norway; and about 29.8 in.: in a depression over Corsica, and in another over Serbia and Dalmatia. Gradient (for S² to W² winds) steep over Northwestern Europe. Northern depression moving eastward later and barometer rising over the United Kingdom — especially in the north and northwest.

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, 31st October, 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.		Weather.	Sea. (0 to 4.)	Shade Temp.		Amount of Rainfall.
				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 ...		28.64	35	Z	0	0	28.95	- .01	31	30	- 2	NW	4	0	*	36	27	0.83
Hernösand ...		29.10	40	NW	8	0	29.48	+ .77	36	31	- 5	NW	6	0	*	50	36	-
Stockholm ...		29.38	42	N	4	0	29.74	+ .66	35	32	- 3	N	2	0	*	50	34	-
Wisby ...		29.49	45	SW	0	0	29.80	+ .62	41	39	- 4	WNW	4	0	*	46	39	-
Bodö ...		28.91	38	SW	4	0	29.19	+ .44	40	38	+ 6	WSW	8	0	*	?	?	0.43
Christiansund		29.50	39	WNW	9	+	29.68	+ .80	35	34	- 7	N	4	+	5	?	34	0.28
Skudesnaes ...		29.78	41	NW	5	C	29.76	+ .28	45	42	0	SSE	6	0	5	45	39	0.08
Christiania Fjord (Færder)		29.58	46	WNW	5	0	29.79	+ .70	41	36	- 7	WNW	3	0	3	50	41	-
Skagen (The Scaw)		29.67	45	NW	7	0	29.82	+ .57	41	38	- 6	NW	1	0	2	48	39	-
Fanö ...		29.90	44	WNW	4	C	29.89	+ .27	40	39	- 7	SSE	4	0	*	50	39	-
Sumburgh Head		29.78	39	Z	0	0	29.52	- .14	44	43	+ 3	SE	2	0	4	45	38	0.26
Stornoway ...		29.73	46	SW	2	T	29.43	- .40	45	44	+ 2	SW	2	0	3	48	43	0.50
Wick ...		29.76	40	N	2	0	29.43	- .41	43	42	+ 5	N	1	0	1	45	36	0.25
Nairn ...		29.77	46	N	2	T	29.41	- .46	44	44	+ 5	Z	0	0	1	48	38	0.52
Aberdeen ...		29.84	44	SSW	2	Cm	29.43	- .46	46	46	+ 7	SSW	1	ogrm	3	47	39	0.46
Leith ...		29.88	48	N	1	m	29.42	- .48	49	49	+ 8	Z	0	df	*	52	40	0.46
Shields ...		29.91	46	Z	0	f	29.48	- .43	49	48	+ 9	SSE	3	0	2	50	37	0.09
Spurn Head ...		29.96	49	SSE	2	bc	29.62	- .30	50	49	+ 5	S	4	rm	4	52	45	0.07
York ...		29.95	46	SSW	1	0	29.57	- .39	52	51	+ 11	S	1	0	*	52	40	0.04
Loughborough		29.98	45	Z	0	0	29.65	- .30	53	52	+ 3	SSW	4	ogp	*	60	43	0.03
Ardrossan ...		29.83	50	SSE	2	T	29.41	- .50	53	52	+ 9	SSW	3	d	2	55	43	0.33
Malin Head ...		29.74	50	SSE	4	ogp	29.46	- .46	51	51	+ 3	NW	5	odp	3	54	48	0.27
Mullaghmore ...		29.78	54	SSW	4	dp	29.59	- .37	52	51	+ 6	WNW	6	ogp	4	55	46	0.19
Belmullet ...		29.78	53	SW	3	om	29.63	- .32	52	50	+ 1	WNW	1	0	*	54	50	0.08
Donaghadee ...		29.87	50	SSW	2	0	29.49	- .47	53	52	+ 11	N	3	0	1	55	40	0.14
Liverpool (Bidston)		29.95	48	NW	1	C	29.57	- .38	53	53	+ 5	WSW	3	0	3	54	46	0.07
Holyhead ...		29.94	52	SSW	1	om	29.59	- .38	54	52	+ 3	N	4	og	4	55	50	0.13
Parsonstown ...		29.88	54	Z	0	0	29.67	- .32	52	50	+ 1	N	1	0	*	56	50	0.07
Valencia ...		29.93	56	N	3	ogdm	29.77	- .23	55	54	+ 1	N	5	om	5	57	53	0.10
Roche's Point...		29.92	55	SW	3	f	29.76	- .24	55	52	+ 3	WNW	4	0	3	56	50	-
Pembroke (St. Ann's Hd.)		29.96	50	N	3	C	29.70	- .27	55	54	- 1	N	0	bc	5	57	53	0.05
Scilly ...		29.98	54	N	2	m	29.82	- .20	55	54	0	WNW	6	op	4	56	51	0.06
Prawle Point ...		29.99	56	N	2	C	29.77	- .19	55	55	0	WNW	5	ru	4	59	50	0.14
Jersey (St. Aubin's)		29.98	57	WNW	3	ofdm	29.85	- .13	56	54	- 2	WSW	4	ogp	3	60	54	0.10
Hurst Castle ...		29.98	55	Z	2	0	29.76	- .19	54	54	- 1	WSW	2	adm	2	57	52	0.03
Dungeness ...		29.99	54	SE	2	m	29.79	- .14	53	53	0	S	4	m	3	57	51	-
London ...		29.97	50	SW	1	bf	29.74	- .20	52	51	- 1	S	3	od	*	58	44	0.01
Oxford ...		29.97	49	NW	1	0	29.70	- .25	53	52	+ 1	S	2	od	*	61	48	-
Cambridge ...		29.98	48	N	1	0	29.70	- .25	52	51	0	S	1	0	*	57	43	-
Yarmouth ...		29.98	49	NE	2	0	29.76	- .13	49	48	+ 1	SSW	4	cgm	3	52	47	-
GERMANY & HOLLAND.																		
Cuxhaven ...		29.92	41	WNW	2	0	29.95	+ .17	38	37	- 9	SSW	2	0	*	?	38	-
Berlin ...		29.98	42	N	2	0	30.02	+ .15	42	41	+ 4	Z	0	0	*	45	?	0.04
Wiesbaden ...		*	*	*	*	*	29.96	- .09	42	41	+ 3	SW	1	0	*	43	?	0.08
Munich ...		30.08	30	NE	1	0	29.93	- .21	30	30	+ 1	N	2	0	*	39	27	0.04
The Helder ...		30.00	43	WNW	1	0	29.86	- .00	43	42	- 8	SSE	1	0	*	52	41	-
FRANCE AND BELGIUM.																		
Brussels (9 a.m.)		*	*	*	*	*	29.89	- .06	45	44	+ 1	S	2	0	*	46	44	-
Cape Gris Nez		29.90	32	N	1	0	29.81	- .08	49	48	- 6	S	4	0	2	57	45	-
Paris ...		30.01	50	SSE	1	0	29.90	- .11	48	48	+ 3	S	2	0	*	53	?	0.04
Brest ...		30.02	56	WNW	2	m	29.86	- .18	56	55	0	N	3	0	4	56	50	0.04
Lorient ...		30.04	55	WNW	2	m	29.92	- .14	54	54	- 1	WNW	2	0	4	57	52	-
Rochefort ...		30.02	57	WNW	3	0	29.94	- .13	55	54	0	NW	3	0	*	59	50	0.08
Belfort ...		?	41	N	1	0	?	?	32	27	+ 4	N	1	0	*	43	25	-
Lyons ...		30.07	40	NE	1	0	30.00	- .07	38	38	-	SSE	1	0	*	43	38	-
Nice ...		29.87	51	Z	0	C	29.90	- .02	45	44	- 2	E	2	0	3	59	45	-
Perpignan ...		29.98	56	N	2	0	29.91	- .20	58	54	+ 10	NW	2	0	*	?	43	0.08
Biarritz ...		30.08	61	NW	4	0	30.01	- .15	61	59	+ 9	NW	4	0	4	63	?	0.41
PENINSULA.																		
Corunna ...		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lisbon ...		30.28	58	N	5	0	30.27	- .11	60	57	+ 6	N	4	0	5	63	?	-

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 31st October,

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:

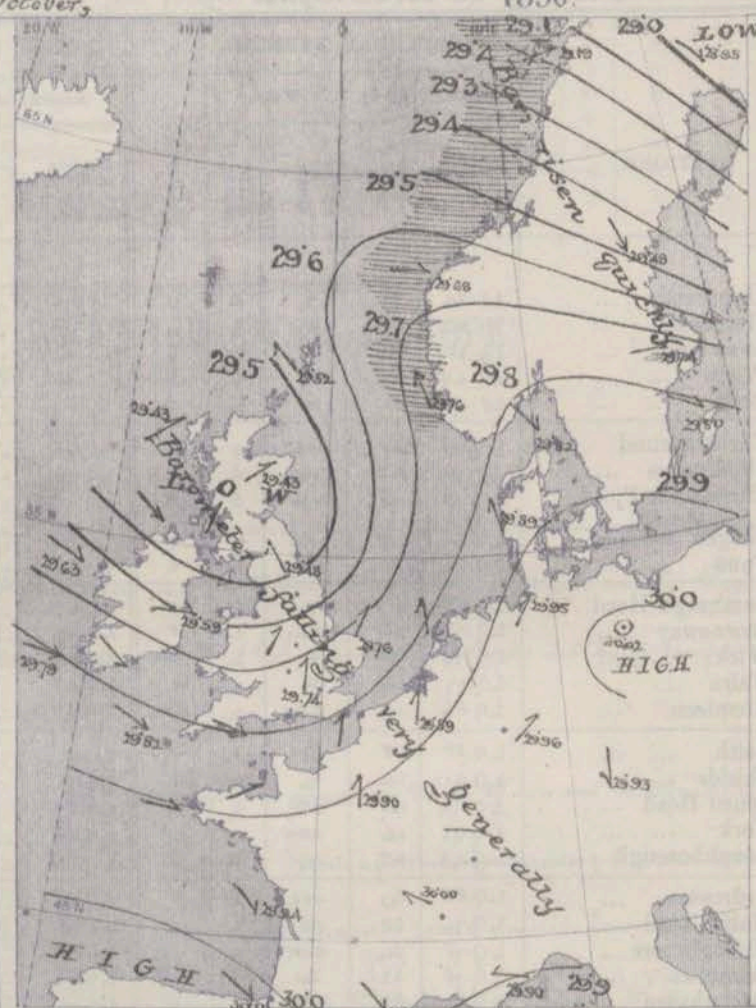
■ = Rough. ■ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.708
Stornoway	29.735
Wick	29.745
Nairn	29.761
Aberdeen	29.774
Leith	29.804
Shields	29.835
York	29.872
Loughborough	29.891
Ardrossan	29.813
Donaghadee	29.832
Holyhead	29.853
Liverpool	29.864
Parsonstown	29.881
Valencia	29.873
Roche's Point	29.870
Pembroke	29.868
Scilly	29.894
Jersey	29.904
Hurst Castle	29.907
Dover	29.909
LONDON	29.911
Oxford	29.910
Cambridge	29.900
Yarmouth	29.886



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.

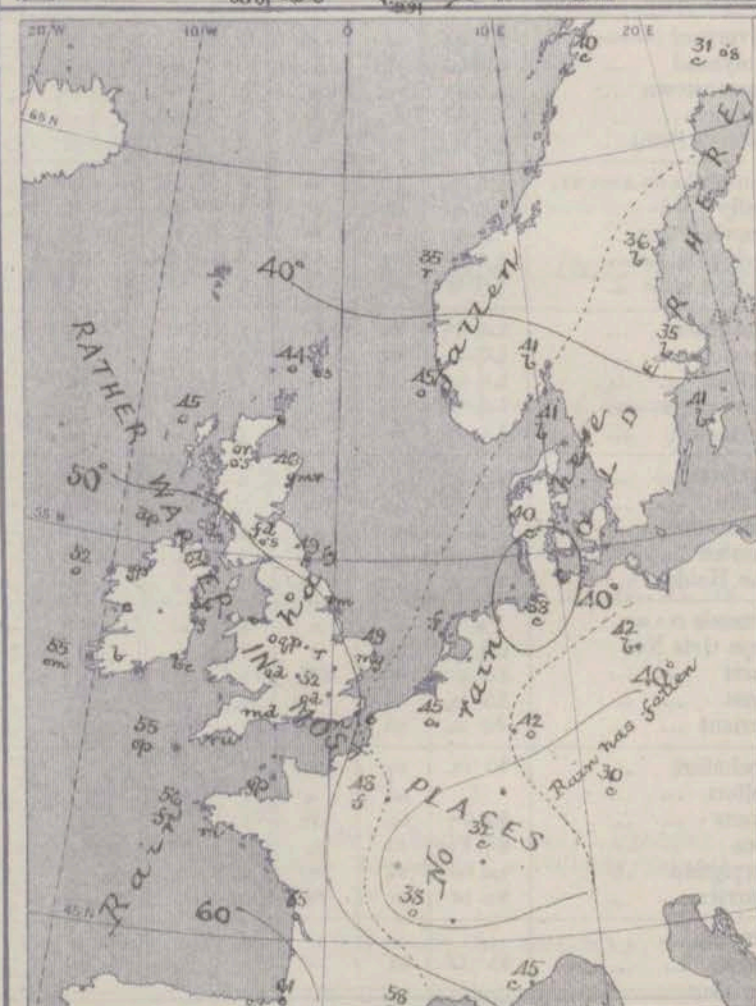
WEATHER is shown by Letters of the Beaufort Scale.

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 October.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	At 8 A.M. Dry.	Wet.	
Sumburgh Head	49.7	41.6	46.0	44.3	4.33
Stornoway	50.5	39.5	45.3	44.1	4.94
Wick	51.6	40.1	46.1	44.3	2.94
Nairn	51.6	40.6	44.5	42.5	2.38
Aberdeen	52.3	41.0	45.5	43.5	2.88
Leith	54.7	41.5	46.6	44.7	1.94
Shields	53.0	42.8	47.1	45.4	2.46
York	54.8	41.0	45.9	44.5	2.64
Loughborough	55.3	41.4	46.4	45.0	2.98
Ardrossan	53.5	43.6	47.6	45.6	4.31
Donaghadee	53.2	43.3	47.7	46.5	3.35
Holyhead	54.5	47.0	50.2	48.2	4.63
Liverpool	53.6	44.6	47.8	45.8	3.62
Parsonstown	54.7	41.1	46.4	44.7	3.27
Valencia	56.6	46.5	51.3	49.1	6.09
Roche's Point	55.8	45.9	50.2	48.4	4.17
Pembroke	54.8	48.0	51.2	49.1	4.13
Scilly	56.6	50.3	53.8	51.7	3.84
Jersey	58.1	49.2	53.6	51.1	4.34
Hurst Castle	57.1	46.0	51.4	49.6	3.24
Dover	56.8	47.0	50.7	48.7	3.28
LONDON	56.6	43.2	48.0	46.4	2.74
Oxford	55.3	42.5	46.7	45.3	2.72
Cambridge	56.4	41.2	46.4	45.4	2.36
Yarmouth	54.3	44.8	49.2	47.9	2.97

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. Lowest, 29.0 in. and less, in England; 29.5 in. and less, in a depression lying over Scotland and the northern part of Ireland and England. Gradients steep over the north of Scandinavia, but moderate or slight elsewhere. Barometer falling at nearly all but the Scandinavian stations — beginning to rise again at Stornoway.
TEMPERATURE	Highest, 61° at Biarritz, 60° at Dieppe, 58° at Boulogne, 56° at Jersey and Brest, and 55° at most of our southwestern stations. Lowest, 30° at Munich, 31° at Copenhagen, 35° at Stockholm and Christiania, and 36° at Helsingfors. During yesterday the thermometer rose to 60° at Loughborough and Jersey and 61° at Oxford.
WIND	Moderate to strong from the W nd in the west and southwest of our Islands, light from the NW nd in the east and south of France. S ^{ly} or SE ^{ly} over the North Sea and adjacent coast. NW ^{ly} in Sweden; strong to a gale from WSW ^{ly} at Stockholm.
WEATHER	Dull over nearly the whole of western Europe with mist and rain in many parts of the United Kingdom and fog on the French side of the Channel. Fair or fine in Sweden, Denmark and Germany. Since yesterday morning, rain has fallen in most places; the largest amount being 0.5 in. at Stornoway, Kinn, and Aberdeen.
SEA	Rather rough at Heligoland, Pembroke and Linton as well as on the Norwegian coast, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression in the north is apparently spreading down in a southeasterly direction, and unsettled rainy weather seems likely to continue over England for a time. On our western coast the wind may possibly increase from the NWnd.

FORECASTS

For the 24 hours ending at NOON on 1st Nov^r 1890.

DISTRICTS.

FORECASTS.

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

Light variable breezes; drizzle, rain at times.

S^{ly} winds, moderate; unsettled, rain at times.

SW^{ly} winds, freshening; mild, changeable, some rain.

DISTRICTS.

FORECASTS.


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


SW^{ly} to W^{ly} winds, freshening; changeable, showery.

W^{ly} to NW^{ly} winds, fresh or strong; squally, showery.

WARNINGS

NONE ISSUED.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.67	43	39	SW	8	C	6		Holyhead ...	29.98	53	49	WWSW	1	6
Sumburgh Head ...	29.78	42	38	WWSW	2	O	4		Valencia ...	29.99	57	56	WSW	3	om
Stornoway ...	29.81	48	45	W	3	O	3		Scilly ...	30.02	56	55	WWSW	3	c
Aberdeen ...	29.89	46	42	S	1	om	3		Jersey ...	29.98	59	58	WWSW	3	c
Shields ...	29.95	49	44	Z	0	m	2		Dungeness ...	29.95	55	54	SE	2	m
Ardrossan ...	29.91	51	47	Z	0	O	0		London ...	29.97	58	54	Z	0	t
Mulin Head ...	29.87	49	47	SSE	3	O	3		Yarmouth ...	29.95	52	49	NNE	2	b
Mullaghmore ...	29.89	53	51	SSW	2	O	3		Rochefort ...	30.12	59	58	WWSW	3	T
Belmullet ...	29.90	53	53	SW	2	O	*								

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

Weather very rough and unsettled over the Baltic and Northern Europe; quiet over the British Islands, as well as over France, Germany, southern, and central Russia, somewhat disturbed over the Mediterranean, damp fog and mist in many parts of our Islands, clear bright weather in others, and also over Central Europe and Portugal - rain at some of the Channel and northern French stations. Rain later over all but the southeastern parts of our Islands, amount considerable in Scotland and Norway, fog in many places, thick during the evening in London.

Temperature changing very irregularly and fitfully; inclined to fall again over the northern and eastern parts of the British Isles, risen rapidly in some parts of France and North Germany. Morning readings exceeding 50° on the Atlantic and Channel coasts of the British Isles, France, Spain and Portugal, and exceeding 60° at Brindisi and Malta; below 40° over Lapland, Russia, Poland, and south Germany, and as low as 28° at Moscow and Breslau, 22° at Vienna and Munich, 30° at Warsaw and 31° at Archangel. Rising later to between 55° and 61° over our Islands - air damp and close.

Wind blowing a gale from the Sst (SSE to SSW) over Finland and the Baltic, a strong breeze to a fresh gale from W. on the eastern shores of the North Sea, and a light to moderate and variable breeze over the United Kingdom, France, and Central Europe. NE³ to N³ winds prevalent over the Mediterranean, SE³ and E³ over the Adriatic. Gale veering to NW. on the eastern shores of the North Sea later, and wind backing to SW² very generally over Ireland and Scotland.

Barometer highest 30.4 ins. to 30.1 ins. over the Iberian Peninsula and southwest of France, and exceeding 30.2 ins. over Central Russia; exceeding 30.1 ins. in a well marked band (or col) extending from the southwest of France across that country and south Germany to Austria and Russia. Lowest, 28.8 ins. and less, in a deep depression lying over the northern part of Scandinavia (gradients very steep over the Baltic and south of Scandinavia) and between 28.8 ins. and 29.2 ins. over Italy, Sardinia, Sicily, Malta, and the adjacent parts of the Mediterranean and Adriatic. Northern depression moving eastwards across Finland later, and new one appearing off our northwestern 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.

ADDITIONS AND CORRECTIONS TO THE

1. REPORTS RECEIVED TOO LATE FOR INSERTION DAILY.

DATE.	STATIONS.	YESTERDAY EVENING.					8 A.M. TO-DAY.										PAST 24 HOURS.		
		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	SEA (0 to 8.)	SHADE TEMP.		Amount of Rainfall.	
				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.		
1	Corunna.....	*	*	*	*	*	30.12	-0.01	66	61	+5	N	1	m	3	75	55	.	
2	Corunna.....	*	*	*	*	*	30.26	+0.14	59	59	-7	NNW	1	f	3	72	55	.	
3	Corunna.....	*	*	*	*	*	29.84	-0.37	67	62	+8	NNW	1	e	4	73	55	.	
4	Brussels.....	*	*	*	*	*	30.26	-0.13	51	-	+5	SW	3	o	*	62	?	.	
-	Corunna.....	*	*	*	*	*	30.25	+0.36	72	68	+5	NE	1	e	.	.	.	.
6	Brussels.....	.	.	.	.	.	30.12	-	57	-	-	SW	4	o	*	66	53	.
-	Corunna.....	*	*	*	*	*	30.15	-0.06	63	53	+3	NNW	3	e	3	64	59	.	
7	Corunna.....	*	*	*	*	*	30.22	+0.07	61	61	-2	NW	1	f	2	70	57	.	
8	Corunna.....	*	*	*	*	*	30.28	+0.06	64	59	+3	N	1	b	4	68	57	.	
9	Naparanda..	29.80	27	NE	4	b	29.71	0.00	28	26	+2	NW	4	b	*	36	18	.	
-	Corunna.....	*	*	*	*	*	30.16	-0.12	60	57	-4	NNE	1	m	4	66	52	.	
10	Brussels.....	*	*	*	*	*	30.39	-0.15	43	-	-2	SW	1	bc	*	59	38	.	
-	Corunna.....	*	*	*	*	*	30.15	-0.01	65	60	+5	NE	1	m	4	72	52	.	
11	Roche's Point...	30.25	62	NW	3	e	30.28	+0.05	49	-	+4	E	3	b	*	75	43	.	
-	Corunna.....	*	*	*	*	*	30.20	+0.05	65	59	0	NE	1	b	4	79	54	.	
13	Corunna.....	*	*	*	*	*	30.21	+0.15	58	54	-2	NNE	1	e	4	77	50	.	
14	Corunna.....	*	*	*	*	*	30.27	+0.06	59	58	+1	NW	1	m	4	73	55	.	
15	Corunna.....	*	*	*	*	*	30.28	+0.01	61	58	+2	NNW	1	b	4	68	55	.	
16	Biarritz.....	30.16	63	NW	5	o	30.10	-0.09	60	59	+1	W	6	r	4	63	59	0.04	
-	Corunna.....	*	*	*	*	*	30.26	-0.02	61	59	0	NW	1	m	4	70	54	.	
17	Corunna.....	*	*	*	*	*	30.34	+0.08	60	58	-1	N	3	bc	5	68	55	0.04	
18	Corunna.....	*	*	*	*	*	30.32	-0.02	53	53	-7	NNE	1	bc	5	64	48	.	
20	Corunna.....	*	*	*	*	*	30.19	-0.06	59	55	-1	NNE	6	b	6	64	54	.	
21	Berlin.....	30.14	58	NW	3	b	30.30	+0.31	41	-	+1	NW	3	b	*	43	30	.	
-	Misbaden.....	*	*	*	*	*	30.33	+0.29	34	-	-10	Z	0	b	*	50	32	.	
-	Munich.....	30.12	38	SW	2	o	30.24	+0.32	41	-	0	N	1	s	*	41	34	0.39	
-	Corunna.....	*	*	*	*	*	30.18	-0.01	56	50	-3	NE	1	b	2	-	-	.	
22	Cape Gris Neg..	30.34	48	S	2	o	30.46	+0.23	35	-	-13	E	3	m	2	52	32	.	
-	Corunna.....	*	*	*	*	*	30.31	+0.13	58	55	+2	NNE	6	b	6	64	54	.	
23	Corunna.....	*	*	*	*	*	30.31	0.00	58	53	0	NE	6	b	4	63	52	.	
24	Corunna.....	*	*	*	*	*	30.33	+0.02	54	47	-4	NE	1	b	4	63	45	.	
25	Corunna.....	*	*	*	*	*	30.25	-0.08	49	45	-5	ESE	1	b	4	64	41	.	
27	Corunna.....	*	*	*	*	*	30.17	+0.03	52	48	+2	ESE	1	b	5	61	45	0.16	
28	Corunna.....	*	*	*	*	*	30.23	+0.11	45	44	-7	NE	2	b	6	59	41	0.12	
29	Corunna.....	*	*	*	*	*	30.46	+0.18	56	54	+11	NW	3	bc	5	?	46	0.04	
30	Corunna.....	*	*	*	*	*	30.36	-0.10	58	55	+2	WSW	3	o	4	59	52	0.12	
31	Corunna.....	*	*	*	*	*	30.20	-0.16	59	59	+1	WSW	2	r	4	59	55	0.59	

2. CORRECTIONS.

DATE.	STATIONS.	YESTERDAY EVENING.					8 A.M. TO-DAY.							PAST 24 HOURS.				
		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 9.)	SHADE TEMP.		Amount of Rainfall.
				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.	
2	Nairn	29.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Pearle Point	29.95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Mullaghmore 2pm	-	-	-	-	-	-	55	-	-	-	-	-	-	-	-	-	-
3	Ardrossan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	59	49	-
4	Mullaghmore	-	-	-	-	-	-	-	56	-	-	-	-	-	-	-	-	-
-	Aberdeen 2pm	-	-	-	-	-	-	62	-	-	-	-	-	-	-	-	-	-
-	Mullaghmore 2pm	-	-	-	-	-	-	-	58	-	-	-	-	-	-	-	-	-
7	Mullaghmore	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-
9	Aberdeen	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-
10	Mullaghmore	-	59	-	-	-	-	-	-	-	-	-	-	-	-	60	-	-
-	Scilly	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	Aberdeen	-	-	-	-	-	-	-	51	-	-	-	-	-	-	-	53	-
12	Shields	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	Aberdeen	-	-	-	-	-	-	-	-	-	-	SW	-	-	-	-	-	-
15	Leith	-	53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Glasgow	-	-	-	-	b f	-	-	-	-	-	-	-	-	-	-	-	-
-	Mullaghmore 2pm	-	-	-	-	-	29.58	-	-	-	-	-	-	-	-	-	-	-
17	Summargate Head . .	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.22
"	Aberdeen 2 pm.	-	-	-	-	-	-	-	-	-	-	WNW	-	-	-	-	-	-
18	Mullaghmore 2pm	-	-	-	-	-	-	-	-	-	-	WNW	-	-	-	-	-	-
20	Nairn	-	-	-	-	-	30.20	-	-	-	-	-	-	-	-	-	-	-
-	Mullaghmore	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	Pembroke	-	-	-	-	-	30.49	+ 15	-	-	-	-	-	-	-	-	-	-
24	Balmullet 2pm . . .	-	-	-	-	-	29.98	-	-	-	-	-	-	-	-	-	-	-
-	Scilly 2pm	-	-	-	-	-	-	-	-	-	-	E	-	-	-	-	-	-
25	Liverpool	29.97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
"	Scilly 2pm	-	-	-	-	-	-	-	-	-	-	WNW	-	-	-	-	-	-
26	Balmullet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.58
-	Liverpool	-	-	-	-	-	-	-	-	-	-	E	-	-	-	-	-	-
-	Hurst Castle	-	-	-	-	-	-	-	-	-	-	W	-	-	-	-	-	-
27	Parsonstown	29.82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Cambridge	29.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	Parsonstown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	49	-	-
"	Scilly	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
29	Leith	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
31	Spinn Head	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45	-	-