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METEOROLOGICAL OFFICE,
LONDON.

DAILY WEATHER REPORTS.

1ST JULY-31ST DECEMBER,
1890.

Soc. Reg. Lond.

DAILY WEATHER REPORT.

July to December 1890.



DAILY WEATHER REPORT.

for FRIDAY 1st AUGUST 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 3.)	Shade Temp.				
				Force. (0 to 12.)	Dirce.		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirce.	Force. (0 to 12.)		Weather.	Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.	Haparanda ...	29.67	60	2	0	c	29.65	-0.04	63	60	0	SW	2	0	•	72	54	—	
	Hernösand ...	29.67	63	SW	2	bc	29.56	-0.09	63	60	+3	SW	2	c	•	72	46	—	
	Stockholm ...	29.70	62	2	0	c	29.74	-0.12	63	57	+1	W	6	c	•	70	52	—	
	Wishby ...	29.80	63	SW	4	0	29.81	-0.05	63	60	+3	WSW	4	c	•	70	57	—	
	Bodö ...	29.60	62	2	0	c	29.59	-0.02	52	52	-6	SW	2	c	•	70	57	—	
	Christiansund ...	29.66	55	WSW	4	f	29.75	+0.22	58	56	-2	ENE	1	c	2	59	52	0.20	
	Skudesnaes ...	29.77	56	SW	2	0	29.83	+0.23	58	56	0	SE	2	0	3	59	52	—	
	Christiania Fjord (Færder) ...	29.61	59	SW	6	c	29.76	+0.03	59	54	+1	WSW	5	c	3	61	57	0.35	
	Skagen (The Scaw) ...	29.80	59	WSW	3	m	29.83	+0.07	59	50	0	W	3	c	3	64	54	—	
	Fanö ...	29.91	61	SW	4	0	29.89	+0.04	62	62	+1	WSW	4	0	•	63	61	—	
BRITISH ISLANDS.	Sumburgh Head ...	29.63	56	SW	1	c	29.73	+0.20	57	55	+2	W	1	bc	2	60	50	0.01	
	Stornoway ...	29.62	58	SW	3	c	29.70	+0.20	57	57	+1	SW	2	c	2	63	53	0.12	
	Wick ...	29.65	58	2	0	c	29.75	+0.14	61	57	+3	SW	1	c	0	63	46	0.07	
	Nairn ...	29.67	61	2	0	c	29.75	+0.16	59	55	+3	2	0	c	1	67	54	0.03	
	Aberdeen ...	29.69	65	SW	4	c	29.80	+0.15	61	56	+3	SW	1	bc	3	69	57	—	
	Leith ...	29.73	63	SW	1	c	29.80	+0.11	57	55	-5	SW	1	om	•	69	52	0.13	
	Shields ...	29.76	71	SW	3	c	29.80	+0.08	60	58	-2	SW	2	0	2	72	57	—	
	Spurn Head ...	29.83	67	WSW	4	bc	29.84	+0.05	63	59	-4	SW	2	c	3	69	57	0.04	
	York ...	29.81	69	W	1	bc	29.87	+0.06	60	57	-5	2	0	c	•	71	54	0.11	
	Loughborough ...	29.88	72	WSW	4	bc	29.91	+0.03	63	59	-3	2	0	c	•	74	58	0.11	
BRITISH ISLANDS.	Ardrossan ...	29.75	59	SW	2	0	29.81	+0.12	58	57	0	SW	3	bc	2	61	54	0.04	
	Malin Head ...	29.69	60	W	4	c	29.76	+0.14	56	54	-2	SW	3	c	3	63	54	0.04	
	Mullaghmore ...	29.73	61	SW	5	c	29.78	+0.12	58	55	0	SW	3	c	3	65	55	0.06	
	Belmullet ...	29.68	58	WSW	5	bc	29.77	+0.11	57	57	0	WSW	2	0	•	62	54	0.14	
	Donaghadee ...	29.76	63	ENE	2	c	29.82	+0.09	58	56	0	SW	3	m	1	70	56	0.04	
	Liverpool (Bidston) ...	29.86	64	SW	4	bc	29.86	+0.05	59	58	-5	SW	1	0	2	71	57	0.03	
	Holyhead ...	29.84	60	SW	5	c	29.84	+0.05	58	58	0	SW	3	PMF	3	64	56	0.10	
	Parsonstown ...	29.81	65	WSW	1	bc	29.80	+0.05	57	56	-4	2	0	bc	•	67	53	—	
	Valencia ...	29.85	63	SW	4	bc	29.88	+0.04	57	57	-2	WSW	1	c	2	65	55	0.03	
	Roche's Point ...	29.87	63	WSW	3	c	29.83	+0.01	58	56	-1	W	1	bc	3	65	55	0.15	
BRITISH ISLANDS.	Pembroke (St. Ann's Hd.) ...	29.92	58	SW	4	c	29.83	-0.01	56	56	-3	SE	1	PM	4	61	55	0.49	
	Scilly ...	29.98	62	SW	3	c	29.81	-0.11	57	57	-4	N	2	m	2	66	55	0.70	
	Prawle Point ...	30.00	60	2	0	c	29.81	-0.11	57	57	-1	2	4	f	4	61	55	0.25	
	Jersey (St. Aubin's) ...	30.06	70	W	3	bc	29.94	-0.14	65	63	+1	SE	1	bc	1	77	57	—	
	Hurst Castle ...	30.02	62	WSW	5	spd	29.92	-0.09	62	62	+1	SW	3	m	4	67	60	0.03	
	Dungeness ...	30.01	64	WSW	4	bc	29.95	-0.07	61	57	-1	ENE	1	f	1	67	58	—	
	London ...	29.99	66	SW	2	0	29.93	-0.04	66	62	+1	SW	1	c	•	70	61	—	
	Oxford ...	29.96	64	SW	3	0	29.90	-0.04	62	61	-3	2	3	0	•	70	61	0.02	
	Cambridge ...	29.91	65	SW	5	0	29.92	-0.02	65	63	-2	2	2	0	•	73	51	—	
	Yarmouth ...	29.93	70	SW	4	c	29.93	0.00	66	63	0	2	2	c	2	73	60	—	
GERMANY & HOLLAND.	Cuxhaven ...	30.01	65	SW	3	f	29.95	+0.02	65	64	+1	SW	3	bc	•	71	64	0.04	
	Berlin ...	30.05	71	WSW	3	bc	30.06	-0.01	71	66	+4	SW	3	c	•	72	64	—	
	Wiesbaden ...	30.09	68	•	•	•	30.09	-0.05	65	61	+2	2	0	c	•	72	57	—	
	Munich ...	30.21	66	NE	1	c	30.20	-0.04	67	62	0	2	1	c	•	77	54	—	
	The Helder ...	29.97	64	SW	2	bc	29.97	+0.01	64	62	0	SW	2	c	2	64	63	—	
FRANCE AND BELGIUM.	Brussels (9 a.m.) ...	30.03	65	WSW	3	bc	29.99	-0.10	73	67	+8	SW	1	c	•	78	60	—	
	Cape Gris Nez ...	30.06	75	WSW	1	c	30.01	-0.12	67	62	+4	2	1	c	0	76	59	—	
	Paris ...	30.04	62	SW	3	m	29.91	-0.16	61	60	-3	2	3	0	3	66	52	—	
	Brest ...	30.05	67	WSW	1	c	29.95	-0.16	60	60	-3	2	1	c	4	70	57	—	
	Lorient ...	30.14	72	WSW	3	c	30.01	-0.19	70	65	+6	ENE	4	bc	2	81	57	—	
FRANCE AND BELGIUM.	Rocheport ...	30.07	62	ENE	2	c	30.08	-0.01	70	61	+2	ENE	1	c	•	86	59	—	
	Belfort ...	30.07	77	ENE	5	c	30.10	+0.01	77	67	+6	2	0	c	0	84	68	—	
	Nice ...	30.08	75	SE	2	c	30.08	-0.04	72	67	-2	2	0	c	•	85	60	—	
	Perpignan ...	30.01	74	ENE	3	c	29.97	-0.13	68	67	0	WSW	4	0	2	81	63	—	
	Biarritz ...	30.01	74	ENE	3	c	29.97	-0.13	68	67	0	WSW	4	0	2	81	63	—	
PENINSULA.	Corunna ...	29.98	71	WSW	5	c	30.06	+0.02	66	61	-1	N	4	c	2	88	63	—	
	Lisbon ...	29.98	71	WSW	5	c	30.06	+0.02	66	61	-1	N	4	c	2	88	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, 1st August

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:

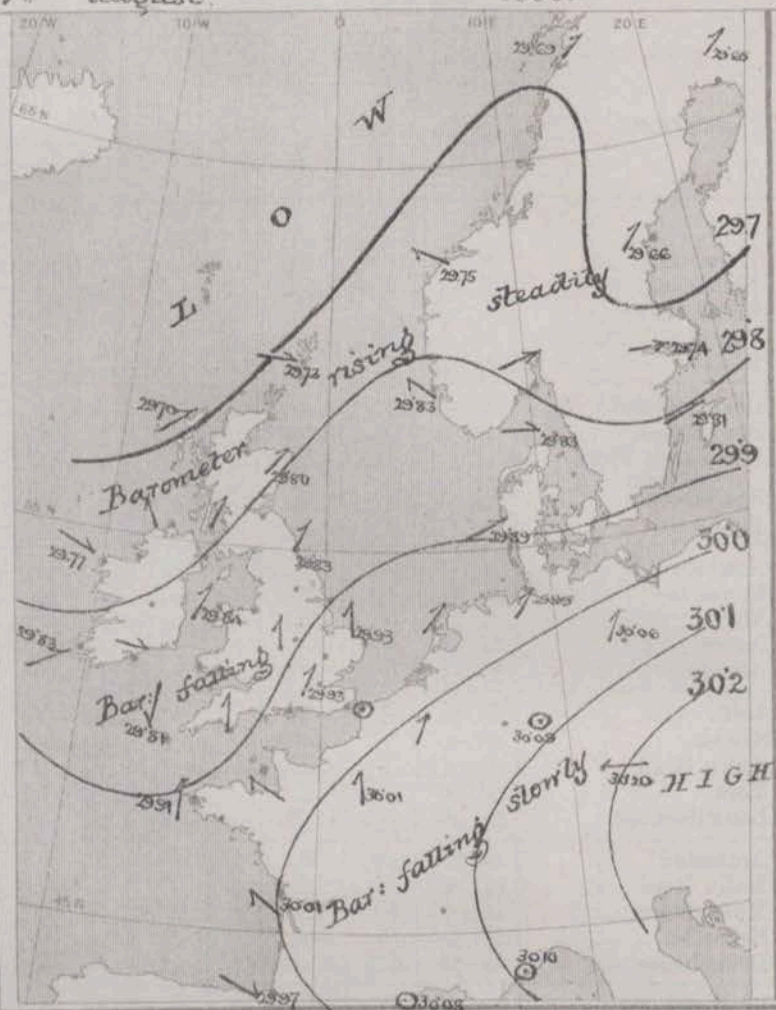
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.793
Sornoway	29.802
Wick	29.813
Nairn	29.827
Aberdeen	29.835
Leith	29.852
Shields	29.876
York	29.907
Loughborough	29.925
Ardrossan	29.880
Donaghadee	29.877
Holyhead	29.904
Liverpool	29.903
Parsonstown	29.919
Valencia	29.922
Roche's Point	29.922
Pembroke	29.921
Silly	29.958
Jersey	29.976
Hurst Castle	29.969
Dover	29.990
LONDON	29.952
Oxford	29.943
Cambridge	29.934
Yarmouth	29.929



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.

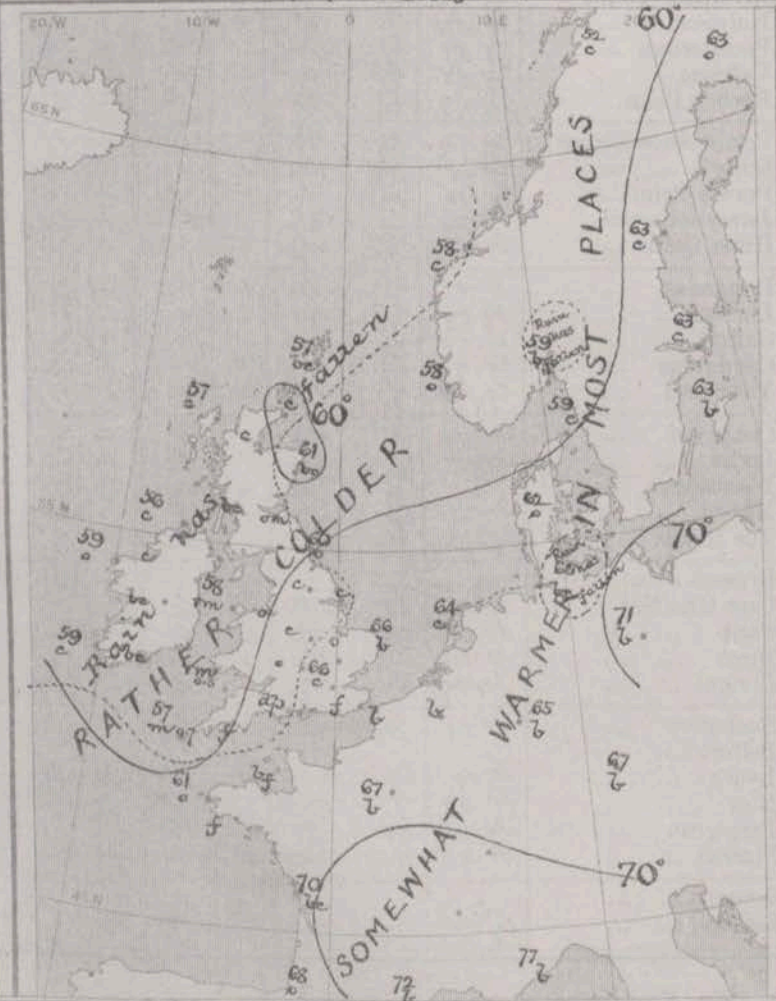
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of August.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Dry, at 9 a.m.	Wet.	
Sumburgh Head.....	57.9	48.5	53.8	52.0	3.21
Sornoway	58.5	49.0	55.2	53.3	3.57
Wick	61.1	48.5	55.2	53.2	2.35
Nairn	63.4	50.2	55.5	52.7	2.81
Aberdeen	63.1	50.2	56.7	53.6	3.13
Leith	65.8	51.4	57.6	54.6	2.62
Shields	65.5	52.3	57.5	54.9	2.81
York	68.1	51.4	58.0	55.3	2.47
Loughborough	70.5	52.1	59.9	57.4	2.61
Ardrossan	64.0	53.1	57.3	54.9	4.08
Donaghadee	61.8	52.0	57.0	55.5	2.99
Holyhead	64.3	55.0	58.5	56.4	2.89
Liverpool	65.7	54.3	58.7	55.5	2.79
Parsonstown	66.2	61.7	57.8	55.7	3.45
Valencia	65.0	54.1	59.4	57.0	4.65
Roche's Point	68.6	53.9	59.0	58.4	3.59
Pembroke	63.7	55.8	58.9	56.6	2.91
Silly	64.9	57.2	61.1	59.1	2.45
Jersey	69.0	57.4	63.1	60.0	2.25
Hurst Castle	68.1	56.1	61.2	59.1	2.31
Dover	67.1	57.2	62.0	59.0	2.08
LONDON	71.8	63.7	61.4	57.8	3.20
Oxford	69.2	58.4	59.2	56.4	2.33
Cambridge	71.3	52.1	60.2	57.3	2.25
Yarmouth	66.4	55.1	60.8	57.9	2.17

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



GENERAL SITUATION AT 8 A.M.

PRESSURE	<p>Highest, 30.2 in: to 30.0 in: over Germany and the greater part of France.</p> <p>Lowest, 29.7 in: and less, both off our extreme northwest coasts and over the north of Sweden.</p> <p>Gradients slight — very variable about the mouth of the Channel.</p> <p>Barometer falling in the southwest and south, rising in the north.</p>
TEMPERATURE	<p>Highest, 77° at Nice, 72° at Perpignan, 71° at Berlin, 67° at Paris, and 66° in London.</p> <p>Lowest, 52° at Bodo, 56° at Malin Head and Pembroke, 57° at Bally, Arsonatoron, Naom, and Dunmurry Head.</p> <p>The maxima recorded in our Islands yesterday were below 75° in most places; in France they varied from 80° to 86°.</p>
WIND	<p>Variable and light over France, chiefly S^{ly} in our Islands, but N^{ly} and very variable on our extreme southwestern coasts. In Norway it is SE^{ly}.</p>
WEATHER	<p>Fair at our northern stations, unsettled in the south, foggy over the greater part of the Channel, raining at Hurst Castle, Pembroke and Holyhead. Much rain has fallen at Bally during the past night.</p>
SEA	<p>Very little disturbed.</p>

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A depression seems to be in course of formation over Cornwall. The rainy weather seems likely to spread eastwards over our southern counties and the Channel, but fair weather is probable in the north.

FORECASTS

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

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	S ^{ly} and Variable airs; fair to unsettled, some rain occasionally.	6 SCOTLAND WEST	S ^{ly} and SW ^{ly} breezes; some slight rain.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	Same as N° 10.
3 ENGLAND EAST	Same as N° 5	9 IRELAND NORTH	Same as N° 6 and 7.
4 MIDLAND COUNTIES	Same as N° 0 to 2.	10 IRELAND SOUTH	Calm and Varying airs; weather improving.
5 ENGLAND SOUTH	S ^{ly} breezes light; close, some rain, then NW ^{ly} airs and finer.	WARNINGS	NONE ISSUED.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA	SEA		BAR:	THER:		WIND		WEA	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.74	57	54	SW	4	0	4		Holyhead ...	29.83	54	60	SW	4	4
Sumburgh Head ...	29.61	56	55	S	2	0	3		Valencia ...	29.85	55	61	SW	4	3
Stornoway ...	29.58	62	60	SW	4	0	4		Scilly ...	29.55	64	64	SW	3	3
Aberdeen ...	29.67	64	58	SW	4	CG	4		Jersey ...	30.01	76	66	S	CG	3
Shields ...	29.76	72	63	SW	2	C	2		Dungeness ...	30.03	64	62	WSW	5	3
Ardrossan ...	29.71	60	58	SW	3	P	2		London ...	29.55	67	64	SW	4	0
Malin Head ...	29.67	60	57	WSW	4	0	2		Yarmouth ...	29.74	72	67	SW	3	3
Mullaghmore ...	29.72	64	60	WSW	4	CC	2		Rochefort ...	30.17	80	70	SW	3	0
Belmullet ...	29.71	62	58	WSW	5	C	*								

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

Weather fine and bright over Southeastern, Western, and Central Europe, as well as on the shore of the Mediterranean; cloudy and rather unsettled over the United Kingdom and Norway, with much fog on our southwest coasts and rain in a few localities. Some rain in west and north later, and a large quantity over "England SW" during following night.

Temperature fallen decidedly over Finland, risen a little over Western Europe, the south of France and Northern Italy. Morning readings exceeding 70° at Mediterranean, Adriatic, and Black Sea stations; exceeding 60° over the greater part of Europe, but as low as 55° at Sumburgh Head, 56° at Stornoway, 58° at Holyhead, Aberdeen, Skudesnaes and Bodø. Rising to upwards of 70° in the eastern parts of Great Britain later, to between 75° and 80° over Germany and the north of Sweden, and to between 80° and 90° over France.

Wind very light and variable over the Continent, SW over our Islands (fresh to strong at the more southern stations), SE in Denmark and the south of Norway, E in the north of Norway. Moderate over our Islands later, and becoming variable on our southwest coasts.

Barometer highest 30.0 ins. to 30.2 ins. over Western, Southern, Central, and Southeastern Europe, exceeding 29.7 ins. over the north of Lapland. Lowest, 29.5 ins. and less, in the neighbourhood of the Farøe Isles, and below 29.7 ins. over the eastern parts of Finland. Rising a little over the British Islands, falling over France and Spain, 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 *Saturday 2nd August.* 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 12.)	SHADE TEMP.		Amount of Rainfall.	
	Reading at 32° F. and Sea Level.	Dry.	Dirce.	Force, (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirce.	Force, (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ...																		
Hernösand ...																		
Stockholm ...																		
Wishy ...																		
Bodö ...	29.76	56	2	0	o	29.71	+02	59	54	+7	ESE	2	bc	1	?	52	—	
Christiansund	29.77	55	WNW	2	r	29.78	+03	55	53	-3	WNW	3	o	2	61	54	0.43	
Skudeenæs ...	29.86	58	8	1	o	29.79	-04	57	55	-1	NNW	4	c	3	61	55	—	
Christiania Fjord (Færder)	29.80	61	SW	3	c	29.76	0.0	59	58	0	2	0	r	1	64	57	0.04	
Skagen (The Scaw)	29.84	60	2	0	bc	29.71	-12	60	59	+1	SE	1	o	2	68	55	0.35	
Fanø ...	29.86	61	E	2	bc	29.73	-16	64	64	+2	WNW	2	c	2	66	61	0.57	
Sumburgh Head	29.78	58	2	0	c	29.85	+12	55	51	-2	WNW	1	c	1	62	51	—	
Stornoway ...	29.79	60	NW	3	bc	29.94	+24	55	53	-2	NW	3	o	3	64	51	0.06	
Wick ...	29.80	60	NW	1	o	29.94	+15	57	56	-4	NW	1	o	0	63	49	0.18	
Nairn ...	29.79	65	2	0	c	29.93	+18	57	54	0	2	0	bc	1	68	54	0.03	
Aberdeen ...	29.79	59	SE	2	c	29.93	+13	57	53	-4	NW	3	c	2	65	52	0.02	
BRITISH ISLANDS.																		
Leith ...	29.77	66	SW	1	bc	29.92	+12	58	56	+1	WNW	1	o	2	67	55	0.03	
Shields ...	29.77	57	ENE	2	o	29.89	+06	57	55	-3	W	2	o	2	67	54	0.31	
Spurn Head ...	29.73	62	SW	3	bc	29.86	-02	58	56	-5	WNW	5	bc	4	66	56	0.06	
York ...	29.75	58	ENE	1	bc	29.90	+03	58	56	-2	N	1	c	2	70	53	0.74	
Loughborough	29.76	68	SW	3	c	29.93	+02	59	56	-4	W	2	bc	2	72	54	0.06	
Ardrossan ...	29.80	61	SW	2	bc	29.94	+13	61	57	+3	WNW	3	bc	2	62	53	—	
Malin Head ...	29.81	60	NW	3	bc	29.99	+23	57	54	+1	WNW	3	bc	2	63	54	—	
Mullaghmore ...	29.85	59	WNW	4	bc	30.04	+26	57	54	-1	NW	4	bc	2	63	54	0.01	
Belmullet ...	29.90	58	WNW	2	o	30.09	+22	58	56	-1	WNW	2	o	2	61	54	0.02	
Donaghadee	29.81	58	SW	2	bc	29.99	+17	59	55	+1	NNE	3	bc	1	60	55	—	
Liverpool (Bidston)	29.80	58	WNW	3	o	29.95	+09	57	54	-2	WNW	3	c	4	62	55	0.28	
Holyhead ...	29.82	57	WNW	2	bc	29.99	+15	60	56	+2	WNW	4	bc	4	60	52	0.33	
Parsonstown ...	29.84	62	2	0	bc	30.06	+26	57	56	0	2	0	o	2	67	49	0.03	
Valencia ...	29.93	61	NW	3	bc	30.13	+20	57	55	0	NW	3	c	4	63	55	0.04	
Roche's Point...	29.88	58	WNW	2	bc	30.06	+23	58	55	0	NW	3	c	3	61	54	0.30	
Pembroke (St. Ann's Hd.)	29.86	60	W	4	bc	30.01	+18	58	55	+2	WNW	4	c	3	61	55	0.11	
Scilly ...	29.93	62	WNW	2	bc	30.04	+23	60	58	+3	NW	4	bc	2	62	54	0.02	
Prawle Point...	29.83	58	W	4	bc	30.00	+12	59	55	0	NW	3	bc	2	62	53	0.04	
Jersey (St. Aubin's)	29.91	63	W	4	bc	30.01	+07	60	58	-5	W	4	bc	3	71	55	—	
Hurst Castle ...	29.85	63	WNW	4	c	29.98	+06	58	57	-4	W	3	bc	2	67	55	—	
Dungeness ...	29.81	66	WNW	3	bc	29.92	-03	62	57	+1	WNW	2	bc	1	74	55	0.02	
London ...	29.94	59	SW	3	c	29.94	+01	59	55	-7	W	1	c	2	77	52	—	
Oxford ...	29.83	61	W	1	bc	29.95	+03	57	55	-5	WNW	3	od	2	70	52	—	
Cambridge ...	29.77	65	SW	4	c	29.92	0.0	60	55	-5	W	1	o	2	76	57	—	
Yarmouth ...	29.77	67	SE	3	bc	29.86	-07	61	58	-5	WNW	4	bc	2	67	54	—	
GERMANY & HOLLAND.																		
Cuxhaven ...	29.96	69	NNE	2	bc	29.80	-15	69	67	+4	SW	3	c	2	76	66	—	
Berlin ...	29.97	80	NNE	2	bc	29.87	-10	73	66	+2	SW	3	bc	2	84	66	—	
Wiesbaden ...						29.91	-10	70	65	+5	WNW	1	bc	2	81	61	—	
Munich ...	30.09	70	NE	1	bc	30.06	-14	73	66	+6	SW	2	bc	2	81	59	—	
The Helder ...	29.77	71	SE	1	bc	29.83	-14	62	59	-2	WNW	2	c	3	75	61	0.08	
FRANCE AND BELGIUM.																		
Brussels (a.m.)																		
Cape Gris Nez	29.78	66	SW	1	bc	29.95	?	59	57	-6	WNW	3	bc	2	75	57	0.08	
Paris ...	29.81	83	8	2	o	30.00	-01	66	58	-7	N	2	o	2	71	55	0.08	
Brest ...	29.95	64	NW	2	bc	30.04	+13	59	59	-2	WNW	2	bc	3	66	52	—	
Lorient ...	29.96	64	W	4	bc	30.04	+09	60	57	0	NW	2	bc	3	68	59	—	
Rochefort ...	30.05	67	WNW	3	bc	30.12	+11	63	60	-7	NW	4	bc	2	81	57	0.16	
Belfort ...	30.02	68	E	1	bc	30.04		64	53		E	1	bc	2	88	57	—	
Lyons ...	29.93	85	8	3	bc	30.01	-07	75	65	+5	WNW	1	bc	2	92	63	—	
Nice ...	30.04	76	SW	4	bc	30.02	-08	76	65	-1	E	2	bc	2	88	63	—	
Perpignan ...	29.99	75	NE	4	bc	30.04	-04	71	69	-1	W	2	bc	2	87	61	—	
Biarritz ...	30.04	69	NNW	4	o	30.07	+10	65	64	-3	NNE	3	bc	1	81	63	0.63	
SPAIN.																		
Corunna ...	30.01	68	NNW	5	bc	30.15	+09	68	65	-5	WNW	2	bc	4	75	59	—	
Lisbon ...						30.01	-05	64	59	-2	N	5	bc	5	81	61	—	

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

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

WEATHER CHARTS

for 8 a.m. on

Saturday 2nd August.

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

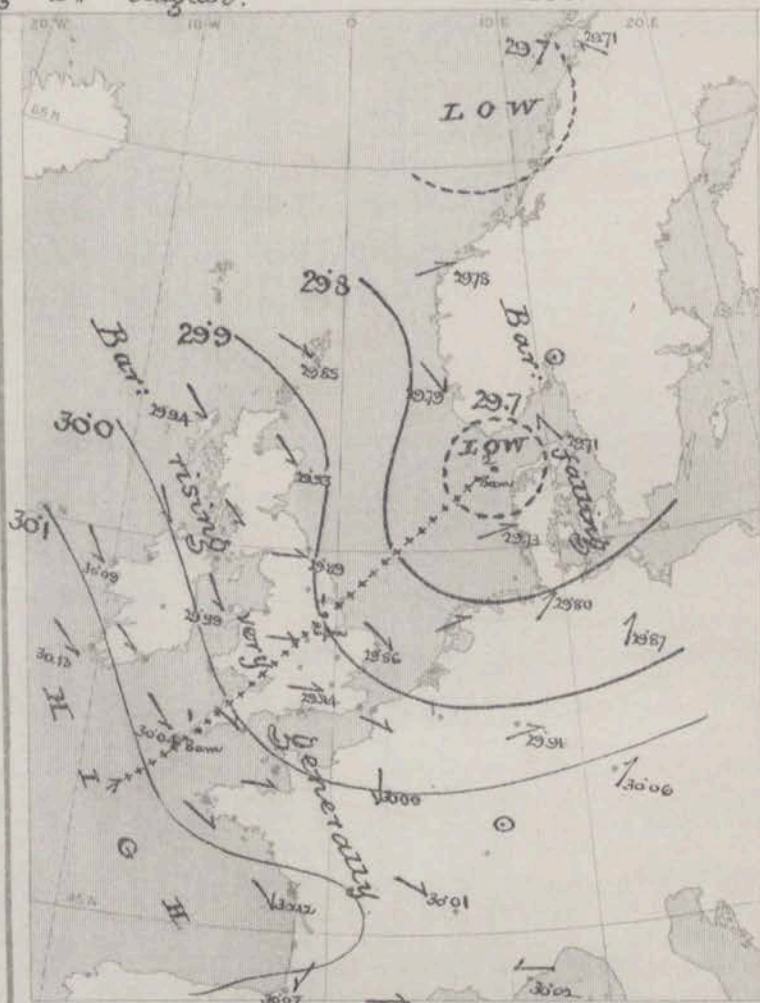
at 8.0 a.m. for the month of August.

During the 15 Years: 1871-1885.

STATIONS.

MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.793
Stornoway	29.802
Wick	29.813
Nairn	29.827
Aberdeen	29.835
Leith	29.852
Shields	29.875
York	29.907
Loughborough	29.925
Ardrossan	29.960
Donaghadee	29.877
Holyhead	29.904
Liverpool	29.903
Parsonstown	29.919
Valencia	29.922
Roche's Point	29.922
Pembroke	29.921
Sally	29.938
Jersey	29.976
Hurst Castle	29.960
Dover	29.950
LONDON	29.952
Oxford	29.943
Cambridge	29.934
Yarmouth	29.929



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.

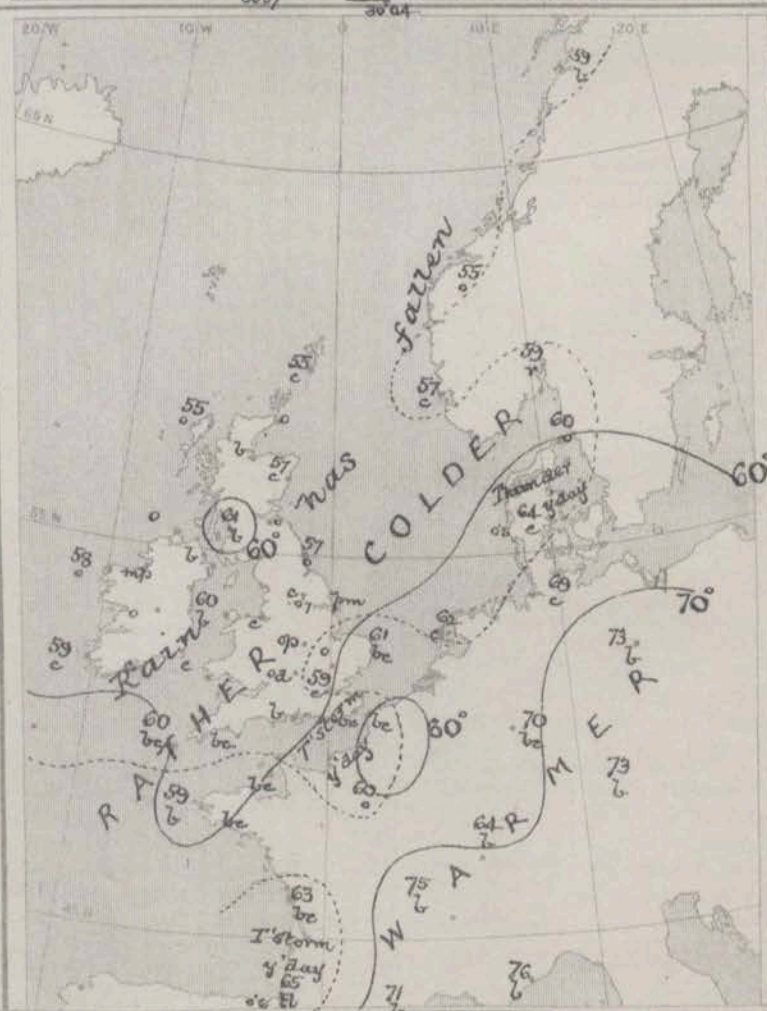
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of August.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	57.9	48.5	53.8	52.0	3.21
Stornoway	58.5	49.0	55.2	53.5	3.57
Wick	61.1	48.5	55.2	53.2	2.35
Nairn	63.4	50.2	55.6	52.7	2.81
Aberdeen	63.1	50.2	56.7	53.6	3.13
Leith	65.8	51.4	57.6	54.8	2.62
Shields	63.5	52.3	57.5	54.9	2.81
York	68.1	51.4	58.0	55.3	2.47
Loughborough	70.5	52.1	59.9	57.4	2.61
Ardrossan	64.0	53.1	57.3	54.9	4.08
Donaghadee	61.8	52.0	57.0	55.5	2.99
Holyhead	64.3	55.0	58.5	56.4	2.89
Liverpool	65.7	54.3	58.7	55.5	2.79
Parsonstown	66.2	51.7	57.6	55.7	3.48
Valencia	65.0	54.1	59.4	57.0	4.65
Roche's Point	68.6	53.9	59.0	56.4	3.59
Pembroke	63.7	55.8	58.9	56.6	2.91
Sally	64.9	57.2	61.1	59.1	2.45
Jersey	69.0	57.4	63.1	60.0	2.29
Hurst Castle	68.1	56.1	61.2	59.1	2.31
Dover	67.1	57.2	63.6	59.0	2.06
LONDON	71.8	53.7	61.4	57.8	2.20
Oxford	69.2	53.4	59.2	56.4	2.33
Cambridge	71.3	52.1	60.2	57.3	2.26
Yarmouth	66.4	55.1	60.8	57.2	2.17

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, in an anticyclone extending from the Atlantic to the southwest of Ireland and the west of France.
 Lowest, 29.7 in: and less, in a large shallow depression lying off the northwest of Norway, and also in a smaller system lying off the east coast of Denmark.
 Gradients slight. Barometer rising in our Islands and France, but falling elsewhere.

TEMPERATURE

Highest, 76° at Nice, 75° at Lyons, 73° at Berlin and Munich, 71° at Copenhagen, and 70° at Stockholm.
 Lowest, 55° at Christiansund, Sumburgh Head and Stromsøy, and 57° at Skudsmose, Nisk, Nain, Altona, Shields, Malin, Rosneath, and Colford.
 During yesterday the thermometer rose to 76° at Cambridge and 77° in London.

WIND

Light or moderate from the NWnd in nearly all parts of our Islands and France, but Wnd in the south-east of England.
 Light from the SWnd over the Netherlands, Denmark and Germany.
 Variable in the south of France and also in Norway.

WEATHER

Fine generally, but dull at some of our own northern, eastern and central stations, with slight showers in places.
 Thunderstorms occurred yesterday over France and the south of our Islands, and heavy rain fell in the north of England.

SEA

Moderate to smooth generally, but rather rough at Lisbon.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone to the southward of our Islands seems to be spreading eastwards, and fair weather is therefore likely to prevail in most districts.

FORECASTS

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

DISTRICTS.

FORECASTS.

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

NWnd and Wnd winds, light; fair generally, but slight local showers.

Same as No 5.

NWnd winds, moderate; fair generally, but slight local showers.

DISTRICTS.

FORECASTS.

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

NWnd winds, moderate, fair generally.

NWnd winds, moderate; dull, local showers

Same as No 6 to 8.

WARNINGS

NONE ISSUED

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA	SEA		BAR:	THER:		WIND		WEA	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.85	60	58	8	6	0	3		Holyhead ...	29.81	58	57	SW	2	2
Sumburgh Head ...	29.76	61	57	2	0	C	2		Valencia ...	29.85	63	59	NW	3	3
Stornoway ...	29.76	64	61	2	0	bc	2		Scilly ...	29.81	61	61	WNW	2	2
Aberdeen ...	29.75	64	58	SE	2	cm	3		Jersey ...	29.70	65	62	WNW	3	bc
Shields ...	29.82	58	58	NE	2	P	2		Dungeness ...	29.86	72	66	WNW	2	bc
Ardrossan ...	29.75	62	60	SW	2	C	1		London ...	29.83	76	64	SW	3	bc
Malin Head ...	29.86	61	58	NW	2	bc	2		Yarmouth ...	29.86	66	63	SE	4	bc
Mullaghmore ...	29.81	62	59	WNW	3	C	3		Rochefort ...	29.02	74	70	WNW	4	C
Belmullet ...	29.84	60	56	WNW	2	0	*								

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

Weather rainy in Wales and dull at several of the English stations, with fog in the Channel. Fine in nearly all other parts of Europe, but rain and fog reported over the Gulf of Finland. Heavy rain falling during day in the north of England, and showers in most other parts of the United Kingdom. Thunderstorms occurring in France and the south and east of England.

Temperature highest 83° at Trieste and Barcelona, 81° at Genoa, 79° at Toulon and Laballe; above 70° in all parts of Southern Europe and above 65° in the southeast of England. Lowest, 52° at Rodez, 56° at Malin Head, and 57° at Kermadec, Sumburg-Ht., Stornoway, Kinn, Perth, Larne, Scilly, and Belmullet. Rising during day to 75° or a little more in the southeast of England, and to between 80° and 90° at many of the French and German stations, reaching 91° at Paris and 92° at Lyons.

Wind light from the S. over the greater part of the United Kingdom, but W. in the south of Ireland, and N. (locally) at Scilly. SW. over the Netherlands, Denmark, North Germany, Sweden, and the Baltic; light from the NW. or N. over Italy, Austria, and the south of Russia; variable over the south of France; E. or NE. in Spain. Subsequently veering to the NW. on the west coasts of our Islands.

Barometer highest 30.1 ins. to 30.2 ins. in an anticyclone of irregular form extending from South Germany across Northern Italy to the Mediterranean and Algeria and also in another system lying over the Black Sea. Lowest 29.7 ins. and less, over the north of Scandinavia and to the northward of our Islands; 29.8 ins. and less, in a very small depression lying near Penzance. Depression subsequently becoming larger, and moving northwards across England.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

WEATHER.—Beaufort Scale is h. 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 3rd August* 1890.
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

Issued by the Meteorological Office, 55, Victoria Street, London, W. 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 4.)	Shade Temp.				
				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 ...	29.50	57	2	0	0	29.60	+0.3	58	?	-1	NW	2	0	•	65	52	0.20	
	Hernösand ...	29.71	57	N	2	0	29.79	+0.5	59	?	-1	NW	4	0	•	72	54	0.24	
	Stockholm ...	29.72	61	SW	2	0	29.85	+0.4	63	?	-1	NNW	2	0	•	70	55	—	
	Wisby ...	29.73	63	S	4	0	29.82	+0.1	63	?	0	N	4	0	•	60	59	0.51	
	Bodö ...	29.75	57	WNW	2	C	29.78	+0.7	58	45	-9	WNW	2	C	1	59	50	0.04	
	Christiansund	29.86	54	WNW	2	C	29.87	+0.9	55	51	0	SW	2	C	2	57	50	—	
	Skudesnaes ...	29.87	55	NW	6	C	29.87	+2.4	57	51	0	NW	4	C	2	61	50	—	
	Christiania Fjord (Færder)	29.76	59	WNW	2	C	29.92	+1.6	58	55	-1	NE	2	C	1	59	55	0.20	
	Skagen (The Scaw)	29.80	60	NW	1	0	29.90	+1.9	58	57	-2	SW	1	C	1	66	54	—	
	Faenø ...	29.80	59	W	4	0	30.00	+2.7	58	57	-6	N	4	C	•	66	55	—	
BRITISH ISLANDS.	Sumburgh Head	29.93	54	WNW	1	0	29.88	+0.2	52	57	-3	SW	3	C	3	59	50	0.05	
	Stornoway ...	29.99	59	W	3	C	29.89	-0.5	56	56	+1	SW	6	C	6	62	52	0.02	
	Wick ...	30.00	59	WNW	2	C	29.92	-0.2	55	54	-2	SW	1	0	0	63	46	—	
	Nairn ...	30.00	63	E	1	C	29.97	+0.4	58	53	+1	WNW	3	C	2	68	53	—	
	Aberdeen ...	30.02	57	S	1	C	30.01	+0.8	59	54	+2	SW	1	C	2	66	52	—	
	Leith ...	30.00	60	SW	1	C	30.07	+1.5	60	54	+2	W	3	C	•	65	50	—	
	Shields ...	30.01	60	E	2	C	30.08	+1.9	61	57	+4	SW	3	C	2	63	50	—	
	Spurn Head ...	30.01	59	NNE	4	C	30.13	+2.3	59	56	+1	S	2	C	3	61	54	0.09	
	York ...	30.03	64	NNE	1	C	30.13	+2.3	61	57	+3	W	1	C	•	65	53	—	
	Loughborough	30.05	60	NW	2	C	30.17	+2.4	61	57	+2	WNW	2	C	•	67	53	—	
GERMANY & HOLLAND.	Ardrossan ...	30.04	63	WNW	4	C	30.10	+1.6	58	55	-3	SW	3	C	2	66	54	—	
	Malin Head ...	30.08	58	NW	3	C	30.06	+0.7	57	55	0	SW	4	0	2	60	54	—	
	Mullaghmore ...	30.14	58	WNW	3	C	30.11	+0.7	58	55	+1	SW	4	0	2	63	52	—	
	Belmullet ...	30.16	60	WNW	2	C	30.10	+0.1	60	58	+2	WNW	3	0	•	60	56	—	
	Donaghadee ...	30.09	60	NNE	4	C	30.14	+1.5	59	56	0	W	3	C	1	64	53	—	
	Liverpool (Bidston)	30.07	60	W	4	C	30.16	+2.1	59	55	+2	W	2	C	2	62	53	—	
	Holyhead ...	30.00	58	NW	1	C	30.17	+1.8	63	59	+3	NW	2	C	2	65	52	—	
	Parsonstown ...	30.13	63	NW	1	C	30.19	+1.3	58	55	+1	SW	1	C	•	65	47	—	
	Valencia ...	30.21	61	NW	2	C	30.22	+0.9	60	58	+1	WNW	2	0	2	62	51	—	
	Roche's Point...	30.16	61	WNW	2	C	30.23	+1.7	56	53	-2	NW	1	C	2	64	50	—	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.12	59	NW	2	C	30.20	+1.9	62	59	+4	NW	1	C	1	63	56	—	
	Soilly ...	30.15	60	NW	4	C	30.21	+1.7	60	60	0	NW	2	C	2	62	55	—	
	Prawle Point ...	30.08	62	NW	4	C	30.20	+2.0	63	61	+4	N	3	C	2	67	52	0.03	
	Jersey (St. Aubin's)	30.09	64	W	3	C	30.20	+1.9	62	58	+2	WNW	3	C	3	66	55	—	
	Hurst Castle ...	30.05	62	WNW	2	C	30.19	+2.1	60	59	+2	NNW	2	C	1	68	53	0.31	
	Dungeness ...	29.99	60	NW	4	0.6	30.14	+2.2	59	56	-3	N	5	0	3	74	55	0.17	
	London ...	30.11	62	NW	1	0.8	30.17	+2.3	58	55	-1	NNE	1	C	•	66	53	0.08	
	Oxford ...	30.07	58	N	3	0	30.18	+2.4	58	55	+1	NNW	1	0	•	68	53	0.11	
	Cambridge ...	30.02	59	N	1	C	30.13	?	58	57	-2	NW	1	C	•	67	48	0.23	
	Yarmouth ...	29.96	60	WNW	2	C	30.13	+2.7	59	55	-2	N	3	C	2	62	54	0.06	
PENINSULA.	Cuxhaven ...	29.89	76	WNW	3	0	29.97	+1.0	68	66	-5	W	3	0	•	84	63	1.06	
	Berlin ...	29.89	76	WNW	3	0	29.97	+1.0	68	66	-5	W	3	0	•	84	63	1.06	
	Wiesbaden ...	29.89	76	WNW	3	0	29.97	+1.0	68	66	-5	W	3	0	•	84	63	1.06	
	Munich ...	29.89	76	WNW	3	0	29.97	+1.0	68	66	-5	W	3	0	•	84	63	1.06	
	The Helder ...	29.89	76	WNW	3	0	29.97	+1.0	68	66	-5	W	3	0	•	84	63	1.06	
	Brussels (8 a.m.)	30.00	58	WNW	1	0	30.08	+0.8	58	57	0	WNW	1	0	•	68	54	0.08	
	Cape Gris Nez	30.02	57	NW	4	C	30.14	+1.4	58	57	-2	W	1	0	•	71	54	0.08	
	Paris ...	30.06	62	NW	2	C	30.21	+1.7	58	56	-1	N	1	C	1	66	50	—	
	Brest ...	30.10	65	NW	3	C	30.23	+1.5	56	55	-4	NNW	3	C	0	66	54	—	
	Lorient ...	29.94	66	WNW	4	C	30.24	+1.2	62	61	-1	ENE	2	C	2	72	54	—	
PENINSULA.	Rochefort ...	29.94	66	WNW	4	C	30.24	+1.2	62	61	-1	ENE	2	C	2	72	54	—	
	Belfort ...	29.94	66	WNW	4	C	30.24	+1.2	62	61	-1	ENE	2	C	2	72	54	—	
	Lyons ...	30.10	61	E	1	0	30.05	+0.4	60	55	-15	NNW	2	C	•	87	55	0.39	
	Nice ...	29.97	77	SW	4	C	29.97	-0.5	72	62	-4	SE	2	C	0	86	65	—	
	Perpignan ...	30.06	70	W	2	C	30.13	+0.9	68	61	-3	NW	2	0	•	80	62	0.04	
	Biarritz ...	30.16	68	NNE	3	0	30.19	+1.2	63	59	-2	SE	3	0	2	72	59	0.16	
	Corunna ...	29.97	66	NNW	5	C	30.14	-0.1	66	62	-2	NNE	6	C	5	68	53	—	
	Lisbon ...	29.97	66	NNW	5	C	29.95	-0.6	64	59	0	2	0	C	?	77	61	—	

WEATHER CHARTS

for 8 a.m. on

Sunday, 3rd August,

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:

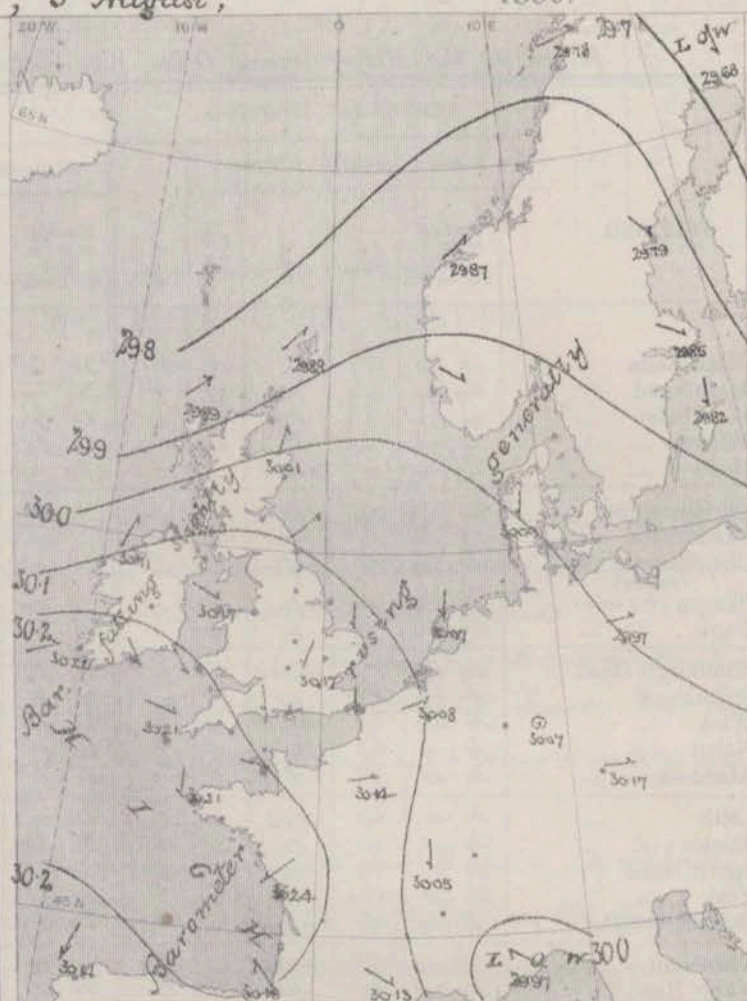
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.793
Stornoway	29.802
Wick	29.813
Nairn	29.827
Aberdeen	29.835
Leith	29.852
Shields	29.875
York	29.907
Loughborough	29.925
Ardrrossan	29.860
Donaghadee	29.877
Holyhead	29.904
Liverpool	29.903
Parsonstown	29.919
Valencia	29.922
Roche's Point	29.922
Pembroke	29.921
Scilly	29.958
Jersey	29.976
Hurst Castle	29.980
Dover	29.950
LONDON	29.952
Oxford	29.943
Cambridge	29.934
Yarmouth	29.929



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.

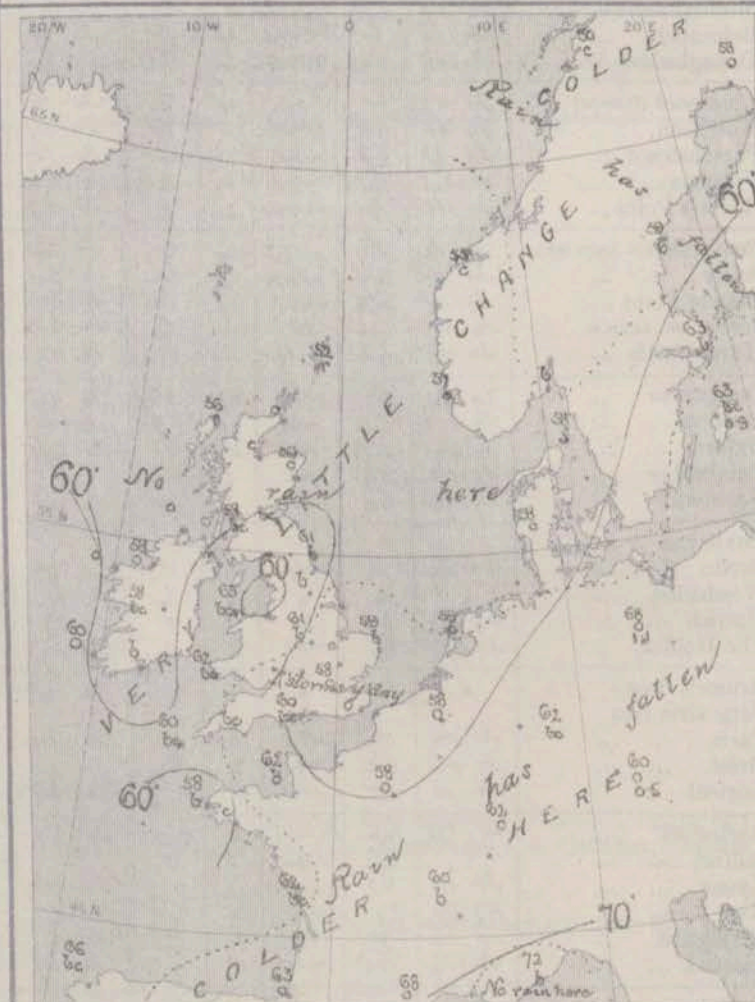
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of August.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	57.0	48.5	53.8	52.0	3.21
Stornoway	58.5	49.0	55.2	53.3	3.57
Wick	61.1	48.5	55.2	53.2	2.35
Nairn	63.4	50.2	55.6	52.7	2.81
Aberdeen	63.1	50.2	56.7	53.6	3.13
Leith	65.8	51.4	57.6	54.6	2.62
Shields	63.5	52.3	57.5	54.9	2.81
York	68.1	51.4	58.0	55.3	2.47
Loughborough	70.6	52.1	59.9	57.4	2.61
Ardrrossan	64.0	53.1	57.3	54.9	4.08
Donaghadee	61.6	52.0	57.0	55.5	2.99
Holyhead	64.3	55.0	58.5	56.4	2.89
Liverpool	65.7	54.3	58.7	55.5	2.70
Parsonstown	66.2	51.7	57.6	55.7	3.45
Valencia	65.0	54.1	59.4	57.0	4.65
Roche's Point	66.6	53.9	59.0	56.4	3.59
Pembroke	63.7	55.8	58.9	56.6	2.91
Scilly	64.0	57.2	61.1	59.1	2.45
Jersey	69.0	57.4	63.1	60.6	2.25
Hurst Castle	68.1	56.1	61.2	59.1	2.31
Dover	67.1	57.2	62.6	59.0	2.05
LONDON	71.8	53.7	61.4	57.8	2.20
Oxford	69.2	53.4	59.2	56.4	2.33
Cambridge	71.3	52.1	60.2	57.3	2.25
Yarmouth	66.4	55.1	60.8	57.9	2.17

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, 30.0 in: to 30.2 in: and more over Ireland, England, and France, and Southwestern Europe. Lowest, 29.8 in: and less, to the northward of 66°; 29.9 in: and less to the northward of the Shetlands and Hebrides. Gradients slight generally, but moderate to the northward of Scotland. Barometer falling in extreme northwest and north of our Islands, rising in south.
TEMPERATURE	Highest, 72° at Nice, 68° at Perpignan and Berlin, 61° at Miesbaden. Lowest, 50° at Woss, 52° at Lumburg, Hrad, 55° at Misk and Chrichiaunel. It is as low as 55° at Paris, Brussels and in London, but appears to be rising decidedly.
WIND	Moderate SW ³ to W ³ in Norway, Scotland, and the greater part of Ireland. Light NW ¹ to N ¹ in the south of England, N and NE over the Bay of Biscay and Spain. W over Germany and the east of France.
WEATHER	Fine over the greater part of Western Europe, but dull locally, with rain in the Shetlands and Hebrides. Rain fell yesterday in France, Germany and the southeast of England, with thunder and lightning in places.
SEA	Light or smooth generally, but rough at Lorient, and rather rough at Goumna.
PROBABLE CHANGES IN SYSTEM NOW PREVALENT	

FORECASTS

For the 24 hours ending at NOON on 4th AUG 1890.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND		WEA.	SEA		BAR.	THER.		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.87	60	58	NW	7	bc	8	Holyhead ...	30.07	62	59	NW	2	c	2
Sumburgh Head ...	29.89	57	54	NNW	2	b	2	Valencia ...	30.20	61	58	NNW	3	cv	3
Stornoway ...	29.98	62	57	NW	2	bc	2	Scilly ...	30.11	62	59	NNW	4	bc	2
Aberdeen ...	29.98	64	50	NW	3	c	2	Jersey ...	30.09	63	59	NNW	3	c	3
Shields ...	29.99	62	59	N	2	bc	2	Dungeness ...	29.96	65	60	WSW	5	bc	3
Ardrossan ...	30.00	64	59	NNW	3	b	2	London ...	29.98	66	58	W	1	o	*
Malin Head ...	30.07	60	57	NW	3	o	2	Yarmouth ...	29.99	62	59	NW	3	bc	2
Mullaghmore ...	30.11	60	57	NW	4	bcv	3	Rochefort ...	30.20	69	63	NNW	5	bc	7
Belmullet ...	30.16	60	54	NNW	2	o	*								

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

Weather dull and unsettled in some of the northern, eastern, and central parts of Great Britain, as well as over Northern Europe generally, with rain or passing showers in many places. Fine in all the more central and southern countries, but thunderstorms reported at Rhenish. Thunderstorms occurring during day in many parts of France and the south of England, and rain falling in Germany (1.1 in.) at Berlin.

Temperature highest 83° at Trieste, 81° at Barcelona, Brindisi, and Calabre, and 79° at Liphon; above 70° over Southern and Eastern Europe generally, as well as at the German stations. Lowest 55° at Christiansund, Sumburgh Hd and Stornoway, 56° at Uleaborg, and 57° at Skudesnaes, Wick, Kairi, Aberdeen, Shields, Malin Head, Paromotion, and Oxford. Daily maxima below 70° in nearly all parts of the United Kingdom, but thermometer exceeding 80° at many of the French and German stations, and exceeding 90° in some parts of Italy and Austria.

Wind light or moderate from the NWnd over the greater part of our Islands and France, but SWnd or Snd over the Netherlands, Denmark, and Germany. Light from the Wnd in Russia, from the Nnd in Italy, and from the NEnd or End in Spain, but variable in Austria, Algeria, and the south of France. Subsequently veering to the Wnd over Denmark and Western Germany, no important change occurring elsewhere.

Barometer highest 30.1 in: and upwards, in an anticyclone extending from the Atlantic to the southwest of Ireland and the west of France, and also in another system lying over the Balkan Provinces. Lowest, 29.6 in: and less, over Lapland and the White Sea, and also in a small depression lying near Helmsfors; 29.7 in: and less, in another depression lying off the northwest of Denmark. All weather systems, both anticyclonic and cyclonic, subsequently moving 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 Monday 4th August.

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.	Dirce.	Force (0 to 12).	Weather.	Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirce.	Force (0 to 12).	Weather.	Sea (0 to 2).		Max.	Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ...	29.71	54	NW	2	C	29.72	+0.04	60	54	+2	ENE	2	C	.	66	50	—
	Hernösand ...	29.86	61	S	4	O	29.88	+0.09	63	58	+4	S	0	O	.	72	52	—
	Stockholm ...	29.58	63	S	2	C	29.61	+0.16	63	59	+5	SW	2	C	.	73	53	—
	Wisby ...	29.55	53	WNW	2	C	29.57	+0.15	66	63	+3	SW	4	C	.	68	53	—
	Bodö ...	29.67	50	ENE	2	P	29.65	-0.12	54	51	+4	SW	6	O	3	55	48	1.24
	Christiansund ...	29.77	57	ENE	4	P	29.86	-0.01	57	53	+2	NW	4	O	3	57	53	0.25
	Skudesnæs ...	29.05	58	SW	2	P	29.05	+0.02	59	57	+2	ENE	4	O	3	63	57	—
	Christiania Fjord (Færd)	29.96	59	S	2	C	29.97	+0.07	60	59	+2	S	0	O	2	63	57	—
	Skagen (The Scaw)	29.60	58	W	2	C	29.66	+0.16	60	57	+2	W	6	C	5	68	54	—
	Fanö ...	29.15	57	WNW	2	C	29.21	+0.21	61	60	+3	W	4	C	.	63	53	—
BRITISH ISLANDS.	Sumburgh Head	29.86	54	SW	3	P	29.85	+0.01	54	54	+2	S	1	P	2	55	50	0.11
	Stornoway ...	29.87	58	SW	6	O	29.87	-0.02	58	58	+2	SW	4	O	4	60	54	0.02
	Wick ...	29.52	58	SW	2	C	29.51	-0.01	61	60	+6	SW	1	O	0	61	50	0.14
	Nairn ...	29.53	62	WNW	3	C	29.53	-0.04	62	60	+4	W	1	C	1	62	53	0.08
	Aberdeen ...	29.57	66	WNW	1	C	29.58	-0.03	65	61	+6	S	1	C	2	71	58	0.07
	Leith ...	30.04	63	W	1	C	30.04	-0.03	64	61	+4	SW	2	om	.	68	57	0.02
	Shields ...	30.06	67	WNW	3	C	30.09	+0.01	60	59	-1	S	2	OT	2	71	53	0.01
	Spurn Head ...	30.10	61	SE	4	C	30.17	+0.04	62	57	+3	SW	2	C	3	65	58	—
	York ...	30.12	66	W	3	C	30.17	+0.04	59	58	-2	W	1	O	.	74	55	0.02
	Loughborough	30.15	70	WNW	1	C	30.21	+0.04	60	57	-1	W	1	C	.	73	55	—
GERMANY & HOLLAND.	Ardrossan ...	30.05	59	SW	2	Pd	30.04	-0.06	60	59	+2	SW	3	C	3	61	56	0.06
	Malin Head ...	30.01	60	SW	5	odp	29.99	-0.07	60	60	+3	SW	4	od	2	66	57	0.11
	Mullaghmore ...	30.06	61	SW	5	Po	30.04	-0.07	62	61	+5	SW	5	ofp	4	67	58	0.09
	Belmullet ...	30.05	59	WNW	2	om	30.04	-0.06	62	61	+2	SW	5	O	.	64	59	0.21
	Donaghadee ...	30.09	68	WNW	2	C	30.10	-0.04	62	60	+3	SW	2	C	.	75	58	0.01
	Liverpool (Bidston)	30.17	62	WNW	2	C	30.18	+0.02	61	60	+2	S	1	O	3	65	52	0.01
	Holyhead ...	30.17	60	SW	3	C	30.17	0.00	60	59	-3	SW	3	Cg	2	66	52	0.01
	Parsonstown ...	30.13	67	SW	1	O	30.17	-0.02	62	61	+4	SW	1	bc	.	70	56	—
	Valencia ...	30.21	63	SW	4	C	30.20	-0.02	60	59	0	SW	3	og	4	66	57	—
	Roche's Point...	30.20	64	WNW	4	C	30.22	-0.01	60	57	+4	WNW	3	C	3	65	55	—
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.21	60	WNW	2	C	30.24	+0.04	57	58	-3	SW	2	bw	1	63	57	—
	Scilly ...	30.25	61	NW	2	C	30.27	+0.06	64	61	+4	WNW	2	C	2	64	55	—
	Prawle Point ...	30.21	61	SW	4	C	30.28	+0.08	61	58	-2	SW	3	C	1	64	57	—
	Jersey (St. Aubin's)	30.22	65	NW	3	C	30.28	+0.08	62	59	0	NW	3	C	3	67	56	—
	Hurst Castle ...	30.20	65	WNW	3	C	30.24	+0.05	61	57	+1	WNW	2	C	1	68	57	—
	Dungeness ...	30.17	64	WNW	3	C	30.19	+0.05	63	60	+4	2	0	C	0	68	52	—
	London ...	30.16	70	W	1	C	30.22	+0.05	63	59	+5	WNW	1	C	.	72	56	—
	Oxford ...	30.18	63	W	1	C	30.23	+0.04	60	57	+2	W	1	C	.	72	56	—
	Cambridge ...	30.14	71	NW	1	C	30.22	?	64	60	+6	WNW	1	C	.	74	52	—
	Yarmouth ...	30.15	63	2	0	C	30.19	+0.06	61	59	+2	SE	1	C	1	65	55	—
PENIN- SULA.	Cuxhaven ...	30.13	60	N	3	C	30.22	?	60	59	?	SE	2	C	.	64	60	—
	Berlin ...	30.12	67	W	1	C	30.21	+0.24	67	61	-1	NNE	2	O	.	73	61	—
	Wiesbaden ...	30.24	55	W	4	O	30.21	+0.14	58	55	-4	2	0	C	.	72	?	—
	Munich ...	30.24	55	W	4	O	30.25	+0.01	56	55	-4	W	2	C	.	64	54	0.04
	The Helder ...	30.16	60	N	1	C	30.22	+0.15	61	57	+2	SE	2	C	1	64	53	—
	Brussels (9 a.m.)	30.23	62	W	2	C	30.23	+0.15	60	57	+2	NNE	1	O	.	66	57	0.25
	Cape Gris Nez	30.18	62	W	2	C	30.19	?	63	61	?	SW	2	C	1	68	52	—
	Paris ...	30.16	65	NW	2	C	30.26	+0.12	56	55	-2	2	0	C	.	70	50	0.04
	Brest ...	30.15	64	N	2	C	30.25	+0.04	59	57	+1	NE	1	C	1	66	50	—
	Lorient ...	30.23	66	W	2	C	30.25	+0.02	57	55	+1	ENE	1	C	2	68	50	—

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

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

WEATHER CHARTS

for 8 a.m. on

Monday, 4th August,

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:

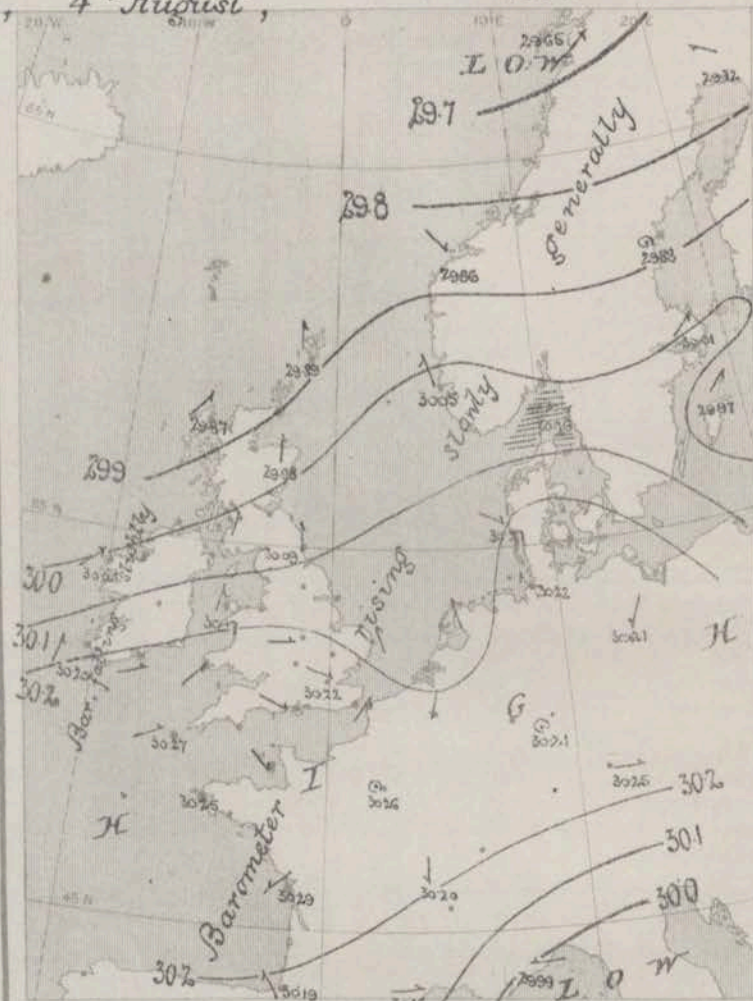
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.798
Stornoway	29.802
Wick	29.818
Nairn	29.827
Aberdeen	29.835
Leith	29.852
Shields	29.875
York	29.907
Loughborough	29.926
Ardrossan	29.860
Donaghadee	29.877
Holyhead	29.904
Liverpool	29.903
Parsonstown	29.919
Valencia	29.922
Roche's Point	29.922
Pembroke	29.921
Sally	29.958
Jersey	29.976
Hurst Castle	29.960
Dover	29.950
LONDON	29.952
Oxford	29.943
Cambridge	29.934
Yarmouth	29.929



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.

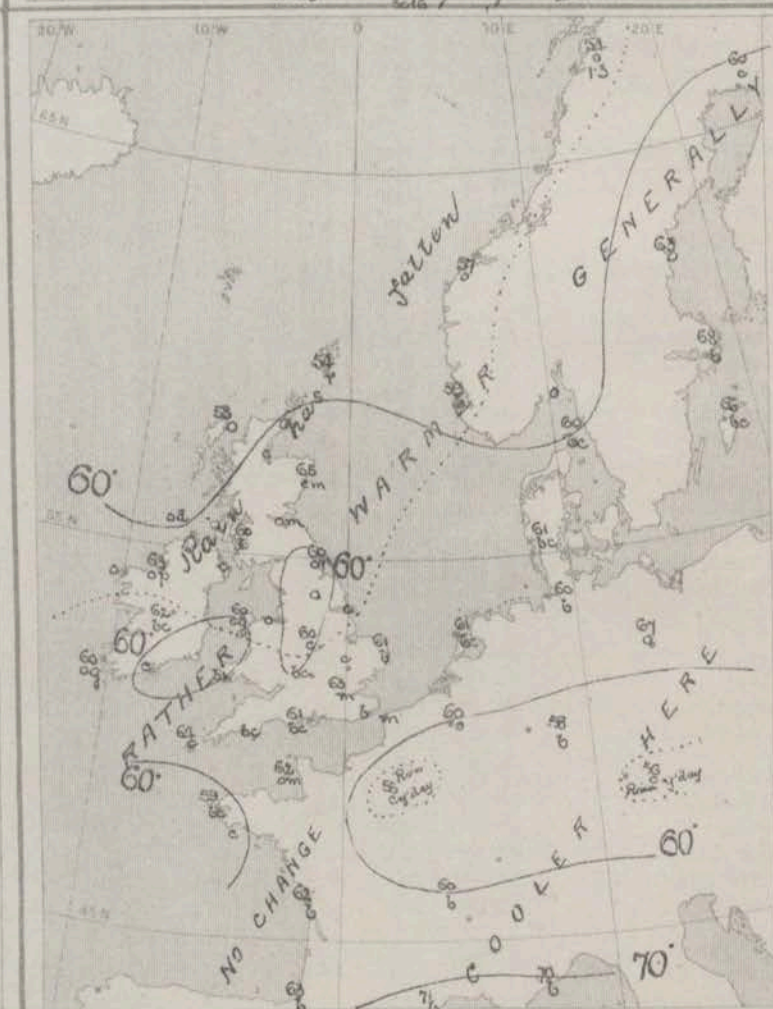
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of August.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	57.9	48.5	53.8	52.0	3.21
Stornoway	58.5	49.0	55.2	53.3	3.57
Wick	61.1	48.5	55.2	53.2	2.55
Nairn	63.4	50.2	55.6	52.7	2.81
Aberdeen	63.1	50.2	56.7	53.6	3.13
Leith	65.8	51.4	57.6	54.6	2.62
Shields	63.6	52.3	57.5	54.9	2.81
York	68.1	51.4	58.0	55.3	2.47
Loughborough	70.5	52.1	59.9	57.4	2.61
Ardrossan	64.0	53.1	57.3	54.9	4.05
Donaghadee	61.8	52.0	57.0	55.5	2.99
Holyhead	64.3	55.0	58.5	56.4	2.89
Liverpool	65.7	54.5	58.7	55.5	2.79
Parsonstown	66.2	51.7	57.6	55.7	3.48
Valencia	65.0	54.1	59.4	57.0	4.05
Roche's Point	66.6	53.9	59.0	56.4	3.69
Pembroke	63.7	55.8	58.9	56.0	2.91
Sally	64.9	57.2	61.1	59.1	2.45
Jersey	69.0	57.4	63.1	60.0	2.25
Hurst Castle	68.1	56.1	61.2	60.1	2.31
Dover	67.1	57.2	62.6	60.0	2.06
LONDON	71.8	53.7	61.4	57.8	2.29
Oxford	69.2	53.4	59.2	56.4	2.33
Cambridge	71.3	52.1	60.2	57.3	2.25
Yarmouth	66.4	55.1	60.8	57.9	2.17

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 Bay of Biscay, France, Germany, and the south of our Islands.
 Lowest, 29.7 in. and less, in a depression lying off the northwest of Norway.
 Gradients slight. Barometer falling slightly at some of our extreme western and northern stations, but rising elsewhere.

TEMPERATURE

Highest, 71° at Perpignan, 70° at Nice, 68° at Stockholm, 67° at Berlin, 66° at Wiesbaden and 65° at Aberdeen.
 Lowest, 54° at Rorø and Edinburgh Head, 55° at Tromsø, 56° at Paris and Munich, 57° at Christiansund and Lorient.
 The highest maxima registered over our Islands yesterday were 73° at Donaghadee, 74° at York and Cambridge and 75° at Loughborough.

WIND

Light or moderate from the S^W or S^W over the greater part of the United Kingdom, but W in the southeast of England and also in Denmark.
 Variable or S^W in Scandinavia.
 Light from the E^W or NE^W in the west and south of France, variable over Germany and Central France.

WEATHER

Dull at several of our northern and extreme western stations, as well as in Norway, with rain at Seaburn Head, Shields, and frequent showers at Mullaghmore.
 Fair or fine in all other localities.
 Since yesterday morning slight rain has fallen in all the more northern parts of the United Kingdom.

SEA

Slight or smooth generally, but rather rough at the Scars.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The changes in pressure are too slight to lead to any immediate alteration in the weather.

FORECASTS

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

DISTRICTS.

FORECASTS.

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

S^W and S^W winds, moderate;
 cloudy, some rain.

 W^W and S^W winds, light, fair generally.

DISTRICTS.

FORECASTS.

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

S^W winds, moderate; fair to dull, and some rain.

Same as No 5

S^W winds, fresh; cloudy, some rain.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

THER: WIND								THER: WIND							
	BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA
Skudesnaes ...	30.04	63	55	W 5/4	2	C	2	Holyhead ...	30.10	63	57	SW	3	?	2
Sumburgh Head								Valencia ...							
Stornoway ...	29.87	60	60	SW	6	0	6	Scilly ...							
Aberdeen ...								Jersey ...	30.23	65	60	W	3	fm	3
Shields ...								Dungeness ...	30.17	66	61	SE	3	6	1/8
Ardrossan ...								London ...							
Mulin Head ...	30.04	63	49	SW	4	odf	3	Yarmouth ...							
Mullaghmore ...								Rochefort ...	29.99	71	65	NW	3	6	?
Belmullet ...	30.08	60	59	W 5/4	3	0	*								

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

Weather fine over the greater part of our Islands and the Continent, but dull in the extreme west and north of the United Kingdom, and also over north Germany and the gulf of Finland. Raining in the Shetlands and Hebrides, as well as at Helsingfors, St. Petersburg and Swinemünde. Slight rain falling later in all the more northern parts of our Islands, and heavy rain (1.5 in.) at Bodo.

Temperature highest 84° at Trieste, 82° at La Halle, 81° at Brindisi, and 78° at Leghorn, Cagliari and Tunis; above 70° over southern and eastern Europe generally - lowest 50° at Bodo, 52° at Sumburgh Head, 55° at Christiansund and Wick, and 56° at Stornoway, Roches Point and Le Mans; below 60° in many parts of northwest Europe. Rising during day to between 70° and 75° in several parts of western Europe, and to 80° or more in the south of France.

Wind light or moderate from the SWnd over the northern parts of the United Kingdom, as well as in the west of Norway and the north of Russia. Light from the NWnd or Nnd over the south of our Islands, the greater part of France and the Netherlands, End or SEnd in the southwest of France, calm or light and variable over Germany, Austria and the south of Russia; Nnd in Algeria. Subsequently backing to the Wnd over the south of our Islands.

Barometer highest 30.2 ins. and upwards in an anticyclone lying over the Bay of Biscay, the west of France and the southwest of our Islands; 30.1 ins. and upwards in another system lying over the south of Russia. Lowest 29.6 ins. and less in a very small depression lying near Ulenborg, 29.7 ins. and less over the greater part of Lapland and Finland. Anticyclone over Bay of Biscay subsequently spreading eastwards, depressing beginning to move north-eastwards along our extreme west and northwest coasts.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 27th JULY TO 2nd AUG 1890

During the whole of this week barometric pressure has been highest over Germany, France, Spain and the adjacent parts of the Atlantic, lowest to the north-westward and northward of the British Islands. SWnd wind have consequently been prevalent, varying from time to time between Snd, on the one hand, and Wnd, on the other. Their force has been moderate to fresh, and the weather fair over the southeastern parts of the Kingdom, changeable and showery in the west and north. On August 1st a change began to take place; a small shallow depression was developed over Cornwall, at the extremity of a shallow V-shaped system then prevailing over the western parts of our Islands. This system moved eastward during that day and the following days causing thunderstorms and rain over the southern and southeastern parts of England, as well as over France. In its rear the barometer rose, and at the close of the week fine weather was becoming general.

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 5th August 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. Reading at 32° F. and Sea Level.	Temp. Dry.	Wind.		Weather.	Barometer.		Shade Temp.		Wind.		Weather.	Sea. (0 to 2).	Shade Temp.		Amount of Rainfall.		
			Force. (0 to 12).	Dir.		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.			Force. (0 to 12).	Max.		Min.	
SCANDINAVIA.																		
Haparanda ...	29.72	60	E	2	t	29.71	-0.1	60	54	0	SW	2	0	.	60	46	—	
Hernösand ...	29.51	60	2	0	t	29.72	-1.6	60	61	+5	W	4	0	.	72	57	—	
Stockholm ...	30.52	64	W	4	bc	29.57	-0.4	61	53	-7	W	6	0	.	73	61	—	
Wisby ...	30.01	64	W	2	t	30.01	+0.4	62	59	-4	WNW	4	0	.	70	53	—	
Bodö ...	29.81	53	WNW	6	c	29.80	-1.5	53	50	-1	SW	2	0	.	52	40	0.12	
Christiansund ...	29.81	57	SW	1	c	29.83	-0.3	55	53	-2	WNW	2	0	5	59	54	0.16	
Skudesnaes ...	30.02	59	SW	1	o	30.09	+0.4	60	57	+1	WNW	2	0	3	57	55	0.00	
Christiania Fjord (Fæder)	30.01	60	SW	6	c	29.99	0.0	62	59	+2	SW	5	0	4	63	59	—	
Skagen (The Scaw)	30.12	59	W	3	c	30.08	+0.2	61	58	+1	W	3	0	3	64	57	—	
Fanö ...	30.24	57	WNW	2	t	30.21	0.0	64	62	+3	WNW	3	0	.	64	57	—	
BRITISH ISLANDS.																		
Sumburgh Head	29.77	57	S	2	T	29.96	+0.7	56	54	+2	SW	2	0	3	61	51	0.12	
Stornoway ...	29.87	61	W	3	c	29.97	+1.0	56	56	-2	SW	3	0	3	61	52	0.20	
Wick ...	29.86	64	W	4	bc	30.01	+1.0	60	58	-1	E	1	0	0	66	50	—	
Nairn ...	29.92	66	W	2	o	30.01	+0.8	61	60	-1	2	0	0	0	73	58	0.01	
Aberdeen ...	29.95	69	SW	2	c	30.04	+0.6	65	62	0	SW	2	0	2	73	61	0.03	
Leith ...	30.02	70	SW	3	t	30.07	+0.3	70	63	+6	SW	4	0	.	73	61	—	
Shields ...	30.10	70	WNW	3	c	30.12	+0.3	66	61	+6	S	2	0	2	75	60	—	
Spurn Head ...	30.16	66	SW	2	o	30.18	+0.1	63	61	+1	S	1	0	.	71	60	—	
York ...	30.17	72	W	2	t	30.20	+0.3	64	61	+5	S	1	0	.	74	57	—	
Loughborough	30.20	70	S	1	o	30.21	0.0	69	63	+9	2	0	0	.	78	60	—	
GERMANY & HOLLAND.																		
Ardrossan ...	30.08	61	SW	4	o	30.09	+0.5	61	60	+1	S	3	0	2	61	59	—	
Malin Head ...	30.03	62	SW	5	odt	30.02	+0.3	63	60	+3	S	5	0	2	66	60	0.06	
Mullaghmore ...	30.09	64	SW	5	odt	30.05	+0.1	63	60	0	S	6	0	4	69	61	0.04	
Belmullet ...	30.08	61	WNW	5	om	30.01	-0.3	61	60	-1	SW	5	0	.	63	60	0.20	
Donaghadee ...	30.12	71	W	2	bc	30.12	+0.2	60	62	+6	W	3	0	1	77	60	—	
Liverpool (Bidston)	30.20	65	WNW	1	t	30.18	0.0	64	59	+3	SW	1	0	1	74	56	—	
Holyhead ...	30.19	60	SW	3	t	30.18	+0.1	58	58	-2	SW	3	0	3	65	57	—	
Parsonstown ...	30.17	70	SW	1	c	30.16	-0.1	63	62	+1	SW	1	0	.	72	57	—	
Valencia ...	30.21	62	SW	4	om	30.16	-0.4	61	60	+1	S	5	0	3	74	58	—	
Roche's Point...	30.23	64	WNW	4	bc	30.21	-0.1	61	58	+1	WNW	3	0	3	66	57	—	
Pembroke (St. Ann's Hd.)	30.25	61	SW	1	t	30.23	-0.1	59	58	0	SW	2	0	2	64	58	—	
Scilly ...	30.27	62	WNW	1	bc	30.25	-0.2	60	58	-4	W	1	0	1	65	57	—	
Prawle Point...	30.26	62	W	3	bc	30.26	-0.2	61	59	0	S	1	0	1	64	52	—	
Jersey (St. Aubin's)	30.28	65	WNW	3	t	30.26	-0.2	62	59	0	WNW	3	0	3	68	49	—	
Hurst Castle ...	30.25	65	W	3	t	30.24	0.0	62	60	+1	WNW	1	0	1	67	54	—	
FRANCE AND BELGIUM.																		
Dungeness ...	30.22	65	W	1	t	30.22	+0.3	60	63	+5	2	0	0	0	70	50	—	
London ...	30.23	71	W	2	t	30.22	0.0	63	60	0	W	1	0	.	75	53	—	
Oxford ...	30.23	66	2	0	t	30.23	0.0	62	60	+2	W	1	0	.	75	54	—	
Cambridge ...	30.22	74	SW	1	t	30.21	-0.1	70	65	+6	SW	1	0	.	76	54	—	
Yarmouth ...	30.20	63	SW	4	t	30.21	+0.2	65	63	+4	S	2	0	2	65	58	—	
GERMANY & HOLLAND.																		
Cuxhaven ...	30.27	65	N	2	t	30.25	+0.3	66	64	+6	NE	1	0	.	68	50	—	
Berlin ...	30.21	70	ENE	2	t	30.22	+0.1	66	60	-1	ENE	4	0	.	75	63	—	
Wiesbaden ...	30.19	58	N	1	o	30.09	-1.6	64	62	+6	NNE	2	0	.	73	53	0.04	
Munich ...	30.19	58	N	1	o	30.09	-1.6	60	59	+4	2	5	0	.	73	53	0.03	
The Helder ...	30.25	63	NE	1	t	30.23	+0.1	63	61	+2	WNW	1	0	1	66	55	—	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.)	30.25	67	W	1	m	30.21	+0.2	64	61	+1	N	1	0	0	75	57	—	
Cape Gris Nez	30.23	66	WNW	2	t	30.24	-0.2	59	55	+3	WNW	2	0	.	72	52	0.04	
Paris ...	30.20	66	N	3	t	30.25	0.0	57	56	-2	N	1	0	1	66	40	—	
Brest ...	30.25	67	W	1	t	30.25	0.0	57	55	0	ENE	2	0	1	73	54	—	
Lorient ...	30.27	70	WNW	4	t	30.29	0.0	64	63	+2	ENE	3	0	2	82	52	—	
Rochefort ...	?	66	W	1	o	?	?	59	48	-3	W	2	0	.	77	53	0.24	
Belfort ...	?	66	W	1	o	?	?	59	48	-3	W	2	0	.	77	53	0.24	
Lyons ...	29.85	73	NE	3	t	29.96	-1.03	66	60	-4	N	4	0	0	82	61	—	
Nice ...	30.07	77	WNW	3	t	30.14	-0.2	70	60	-1	W	2	0	0	84	62	—	
Perpignan ...	30.15	72	NE	4	t	30.17	-0.2	63	58	0	SW	2	0	1	81	59	—	
Biarritz ...	30.15	72	NE	4	t	30.17	-0.2	63	58	0	SW	2	0	1	81	59	—	
PENINSULA.																		
Corunna ...	30.01	75	WNW	3	t	30.01	-0.1	71	63	+3	WNW	3	0	5	81	66	—	
Lisbon ...	30.01	75	WNW	3	t	30.01	-0.1	71	63	+3	WNW	3	0	5	81	66	—	

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

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

WEATHER CHARTS

for 8 a.m. on

Tuesday, 5th August,

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:

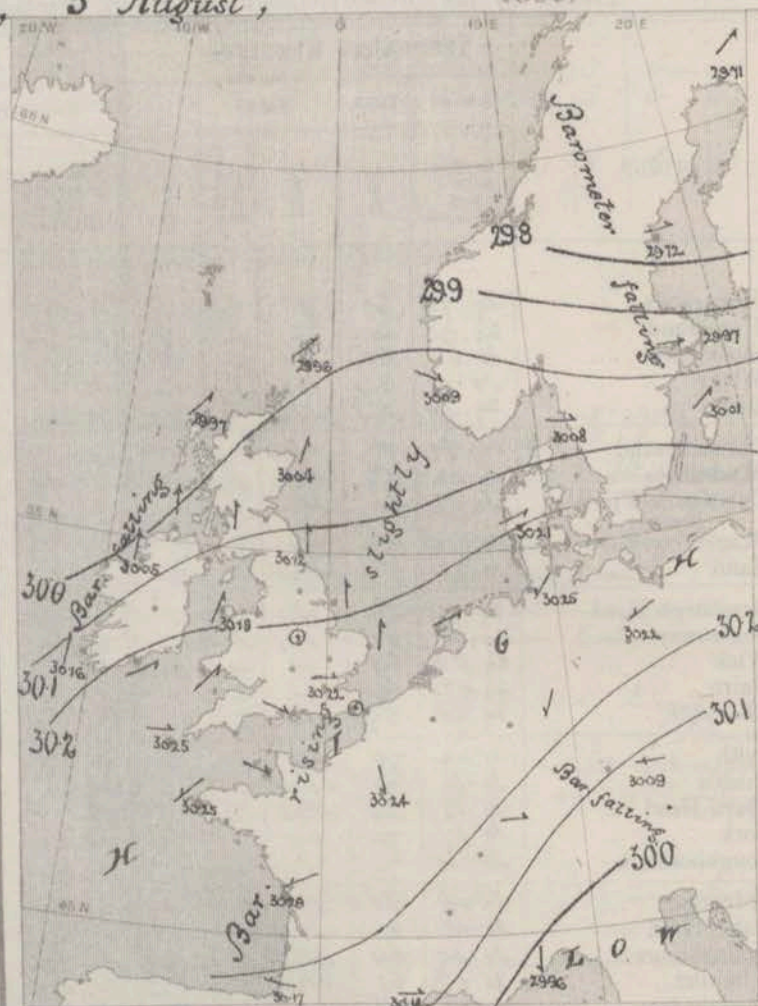
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.793
Stornoway	29.802
Wick	29.818
Nairn	29.827
Aberdeen	29.835
Leith	29.852
Shields	29.875
York	29.907
Loughborough	29.926
Ardrossan	29.880
Donaghadee	29.877
Holyhead	29.904
Liverpool	29.903
Parsonstown	29.919
Valencia	29.922
Roche's Point	29.922
Pembroke	29.921
Sally	29.938
Jersey	29.976
Hurst Castle	29.960
Dover	29.950
LONDON	29.952
Oxford	29.943
Cambridge	29.934
Yarmouth	29.929



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.

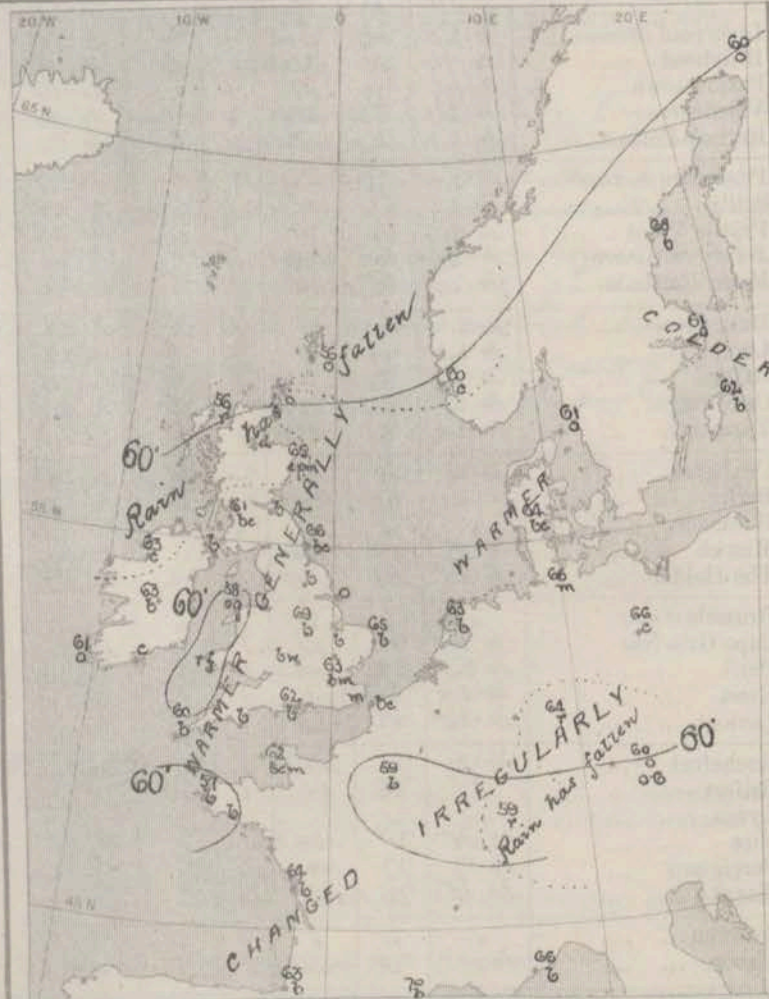
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of August.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	57.9	48.5	53.8	52.0	3.21
Stornoway	58.5	49.0	55.2	53.3	3.57
Wick	61.1	48.5	55.2	53.2	2.35
Nairn	63.4	50.2	55.6	52.7	2.81
Aberdeen	63.1	50.2	56.7	53.6	3.13
Leith	65.8	51.4	57.6	54.6	2.62
Shields	63.5	52.3	57.5	54.9	2.81
York	68.1	61.4	58.0	55.3	2.47
Loughborough	70.5	62.1	59.9	57.4	2.61
Ardrossan	64.0	53.1	57.3	54.9	4.08
Donaghadee	61.8	52.0	57.0	55.5	2.90
Holyhead	64.3	55.0	58.5	55.4	2.89
Liverpool	65.7	54.3	58.7	55.5	2.79
Parsonstown	66.2	51.7	57.6	55.7	3.48
Valencia	65.0	54.1	59.4	57.0	4.65
Roche's Point	66.0	53.9	59.0	56.4	3.59
Pembroke	63.7	55.8	58.9	56.6	2.91
Sally	64.9	57.2	61.1	59.1	2.45
Jersey	69.0	67.4	63.1	60.0	2.26
Hurst Castle	68.1	55.1	61.2	59.1	2.31
Dover	67.1	57.2	62.6	59.0	2.03
LONDON	71.8	53.7	61.4	57.8	2.20
Oxford	69.2	63.4	59.2	56.4	2.33
Cambridge	71.3	62.1	60.2	57.3	2.25
Yarmouth	66.4	55.1	60.8	57.9	2.17

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



GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest, 30.2 ins: and upwards, in a large anticyclone covering ^{North} France, Germany, the Netherlands and the southern part of our islands. Lowest, 29.8 ins: and less, in a depression lying over the north of Scandinavia; 30.0 ins: and less, over the Gulf of Genoa. Gradients slight. Barometer falling a little in the west and southwest of our islands and also in Scandinavia and South Germany, but rising elsewhere.
TEMPERATURE	Highest, 71° at Leam, 70° at Leith, Cambridge, and Perpignan, 69° at Loughborough, and 68° at Harrogate, Donaghadee and Dungeness. Lowest, 56° at Humbergh Hill and Stornoway, 57° at Brak and Lorient, 58° at Holyhead, and 59° at Pembroke. The highest maxima registered over our islands yesterday were 78° at Loughborough, 77° at Donaghadee, and 76° at Cambridge.
WIND	S ² or SW ² in nearly all parts of the United Kingdom; light in force generally, but fresh or strong in the west of Ireland. W ² in Scandinavia and Denmark; strong in force at Stockholm. Light from the E ² or NE ² in Germany and France.
WEATHER	Dull in the extreme west and north of our islands, as well as at some of Scandinavian and German stations, with rain at Stornoway and Bournemouth and also at Newcastle and Belfast. Fine in nearly all other parts of Western Europe, but hazy in the south of England and foggy at the mouth of the Rhine Channel. Slight rain fell yesterday in the northern parts of Ireland and Scotland.
SEA	Slight or smooth generally, but rather rough at Valencia Island and also at Leam.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are at present no indications of any material change in the weather over our islands. A depression is apparently forming over South Germany and other disturbances are moving along our western coasts, but none of these are likely to influence the conditions over England at present.

FORECASTS

For the 24 hours ending at NOON on 6th AUGUST 1890.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	SW ² and S ² winds, freshening considerably; dull, some rain.	6 SCOTLAND WEST	S ² winds, freshening; fine to dull and some rain.
1 SCOTLAND EAST	S ² and SW ² winds, moderate; fair, warm.	7 ENGLAND N.W.	Same as Nos 1 and 2
2 ENGLAND N.E.		8 ENGLAND S.W.	Same as Nos 3 to 5
3 ENGLAND EAST	SW ² winds, light; fine, warm.	9 IRELAND NORTH	S ² and SW ² winds, strong; cloudy, some rain.
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.

THER. WIND								THER. WIND							
	BAR.	D.	W.	D.	F.	WEA.	SEA.		BAR.	D.	W.	D.	F.	WEA.	SEA.
Skudesnaes ...	30.05	59	50	SE	6	0	4	Holyhead ...	30.21	62	59	SEW	4	b	4
Sumburgh Head	29.96	58	56	2	1	C	2	Valencia ...	30.22	63	61	SEW	4	om	4
Stornoway ...	29.90	59	59	SW	4	P	4	Seilly ...	30.27	65	62	WdW	1	bc	2
Aberdeen ...	29.77	72	64	SEW	3	a	3	Jersey ...	30.29	67	60	NW	3	b	3
Shields ...	30.03	72	66	W	3	C	2	Dungeness ...	30.22	67	63	SW	1	b	1
Ardrossan ...	30.00	61	59	SEW	2	0	2	London ...	30.23	72	63	WdW	2	b	*
Malin Head ...	29.90	66	64	SEW	5	0	3	Yarmouth ...	30.20	65	62	SEB	4	b	2
Mullaghmore ...	30.00	67	64	SEW	5	0	3	Rochefort ...	30.29	77	72	NW	3	bc	2
Belmullet ...	30.00	62	61	WdW	5	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 north and extreme west of our Islands, as well as at the Tromsøen and several of the German stations. Rain falling at St. Petersburg Head, Shields, and in the north of Ireland and also at Breslau. Weather improving later at many of our northern stations, but remaining dull and unsettled in the extreme west.

Temperature highest, 81° at Trieste, 73° at Brindisi, and Oporto, and 78° at Palermo and Leballo; above 70° in most parts of Southern and Eastern Europe and above 65° in the south of Sweden. Lowest 54° at Ruse and Rumburg Stad, 55° at Stornoway, 56° at Paris and Munich, and 57° at Christiansund and Lorient. Subsequently rising to between 70° and 75° in many parts of the United Kingdom, and reaching 77° at Douchadze, and 78° at Loughborough. Exceeding 80° in France and Spain.

Wind light or moderate from the Snd or SWnd over the greater part of the United Kingdom, but Wnd in the southeast of England and also in Denmark; variable or SWnd in Scandinavia. Light from the NWnd or Nnd over Germany, Russia, Italy, and Austria, and from the NEnd or End at some of the French and Spanish stations; variable in Algeria. Subsequently shifting to the NWnd in France, little change elsewhere.

Barometer highest, 30.2 ins: to 30.3 ins: in a large anticyclone covering Germany, France, the Bay of Biscay and the south of our islands; 30.1 ins: and upwards, in another system lying over the south of Russia. Lowest 29.7 ins: and less, over the extreme northern parts of Russia and Scandinavia. Shallow depressions moving northeastwards along the extreme northwest and north of our islands on their way to Scandinavia. No important change 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).

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DAILY WEATHER REPORT.

for Wednesday 6th August 1890.

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

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

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.	SHADE TEMP.			WIND.		Weather.	Sea. (0 to 3.)	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 ...	29.66	53	WNW	2	b	29.72	+0.1	59	52	-1	W	4	bc	*	66	48	0.00	
Hernösand ...	29.50	62	2	0	b	29.56	+0.24	60	53	-1	SW	2	b	*	77	53	—	
Stockholm ...	29.57	64	W	2	b	29.58	+0.1	63	53	+2	W	2	o	*	73	59	—	
Wisby ...	29.55	65	WNW	2	b	29.57	-0.04	65	61	+3	WNW	4	b	*	75	64	—	
Bodö ...	29.66	53	WNW	2	p	29.70	+0.23	49	48	-4	WNW	6	r	4	54	46	0.47	
Christiansund	29.93	55	WNW	6	c	29.92	+0.05	54	53	-1	WNW	3	r	4	57	54	0.00	
Skudesnaes ...	30.03	59	SE	2	o	29.55	-0.14	60	59	0	SE	6	o	4	57	57	0.20	
Christiania Fjord (Færder)	30.02	61	SW	4	b	29.56	-0.03	64	61	+2	WNW	3	bc	1	64	59	—	
Skagen (The Seaw)	30.04	59	W	4	b	30.02	-0.06	60	59	-1	WNW	1	c	1	68	57	—	
Fanö ...	30.12	60	2	0	b	30.06	-0.15	67	63	+3	W	0	b	*	53	—	—	
Sumburgh Head	29.56	53	2	0	r	29.59	+0.23	54	54	-2	2	0	o	1	59	50	0.10	
Stornoway ...	29.55	56	2	0	r	30.05	+0.08	56	54	0	2	0	o	2	58	51	0.00	
Wick ...	29.54	56	NE	1	r	30.06	+0.05	57	56	-3	NW	2	o	0	62	48	0.35	
Nairn ...	29.52	59	2	0	r	30.09	+0.08	54	53	-7	W	2	r	1	66	53	0.23	
Aberdeen ...	29.54	60	SW	3	c	30.09	+0.05	56	53	-9	NW	3	o	3	74	54	0.01	
Leith ...	29.55	70	SW	3	bc	30.10	+0.23	59	53	-11	W	1	c	*	73	53	—	
Shields ...	30.04	70	WNW	3	c	30.08	-0.04	63	60	-3	NW	2	c	2	75	58	0.07	
Spurn Head ...	30.06	66	SE	3	b	30.07	-0.11	63	61	0	W	2	cm	2	76	57	—	
York ...	30.08	70	W	2	b	30.10	-0.10	63	60	-1	W	1	b	*	78	54	—	
Loughborough	30.11	74	W	3	b	30.12	-0.09	64	59	-5	WNW	2	bc	*	78	50	—	
BRITISH ISLANDS.																		
Ardrossan ...	30.00	60	S	4	o	30.11	+0.02	58	56	-3	NW	2	o	1	64	52	—	
Malin Head ...	30.03	57	NW	3	o	30.12	+0.10	57	54	-6	NW	1	o	1	67	53	0.04	
Mullaghmore ...	30.08	58	W	5	o	30.15	+0.10	57	53	-6	SW	3	o	2	66	52	0.09	
Belmullet ...	30.10	58	WNW	1	o	30.15	+0.14	59	55	-2	SW	1	c	*	61	53	0.13	
Donaghadee ...	30.03	63	SW	3	o	30.15	+0.03	61	57	-7	N	3	b	1	71	57	0.01	
Liverpool (Bidston)	30.12	66	W	2	bc	30.12	-0.06	60	59	-4	WNW	1	r	1	71	58	0.03	
Holyhead ...	30.13	60	SW	5	c	30.12	-0.06	59	58	+1	NNE	1	c	2	65	57	0.06	
Parsonstown ...	30.09	63	SW	2	p	30.16	0.0	56	55	-7	2	0	c	*	69	53	0.07	
Valencia ...	30.21	62	SW	4	r	30.14	-0.02	60	58	-1	2	0	c	1	62	53	0.00	
Roche's Point...	30.16	61	SW	3	o	30.14	-0.07	59	58	-2	WNW	2	r	3	65	57	—	
Pembroke (St. Ann's Hd.)	30.18	60	WNW	2	b	30.15	-0.08	58	58	-1	WNW	2	fd	3	62	58	0.02	
Scilly ...	30.22	60	WNW	2	o	30.17	-0.08	61	60	+1	W	1	b	1	63	57	—	
Prawle Point ...	30.18	62	WNW	4	bc	30.18	-0.08	59	57	-2	W	2	o	1	63	52	—	
Jersey (St. Aubin's)	30.19	64	NW	3	b	30.16	-0.10	62	58	0	NW	3	cm	3	71	53	—	
Hurst Castle ...	30.16	66	WNW	3	b	30.15	-0.09	64	60	+2	NNE	1	bc	0	79	52	—	
Dungeness ...	30.13	66	W	2	b	30.07	-0.15	63	59	-5	NB	1	b	1	69	54	—	
London ...	30.12	74	WNW	2	bc	30.12	-0.10	62	55	-1	2	0	b	*	81	55	—	
Oxford ...	30.14	64	W	1	b	30.12	-0.11	59	56	-3	WNW	1	bc	*	77	50	—	
Cambridge ...	30.10	77	SW	1	b	30.11	-0.10	62	53	-8	WNW	1	bc	*	82	52	—	
Yarmouth ...	30.12	67	S	3	b	30.08	-0.13	63	61	-2	NW	2	b	2	69	56	—	
GERMANY & HOLLAND.																		
Cuxhaven ...	30.15	65	N	2	b	30.09	-0.16	67	65	+1	ESE	2	m	*	69	64	—	
Berlin ...	30.09	72	ESE	4	bc	29.59	-0.23	70	63	+4	ESE	3	b	*	79	64	—	
Wiesbaden ...	*	*	*	*	*	29.57	*	66	64	+2	2	0	o	*	77	63	0.24	
Munich ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
The Helder ...	30.12	64	N	1	b	30.06	-0.17	65	61	+2	N	1	b	1	72	61	—	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.)	30.10	66	NW	1	b	30.06	-0.15	63	61	-1	NB	2	m	*	73	57	—	
Cape Gris Nez	30.11	73	NNW	2	b	30.10	-0.14	61	57	+2	NW	2	b	*	77	55	—	
Paris ...	30.19	64	N	2	o	30.17	-0.08	57	52	0	NB	3	b	2	64	46	—	
Brest ...	30.18	66	W	3	c	30.17	-0.08	55	54	-2	ESE	3	o	2	73	54	—	
Lorient ...	30.19	65	NW	4	b	30.19	-0.10	63	61	-1	NB	3	b	*	77	55	—	
Rocheport ...	30.04	62	SW	1	r	30.06	*	64	51	+5	W	1	o	*	75	55	0.12	
Lyons ...	30.10	60	S	1	p	30.02	-0.03	62	55	0	NW	2	o	*	67	59	0.32	
Nice ...	29.56	60	S	4	bc	29.53	-0.03	66	55	0	2	0	b	3	75	57	—	
Perpignan ...	30.04	60	N	3	b	30.06	-0.08	65	61	-1	SW	2	b	*	85	59	—	
Biarritz ...	30.10	72	NB	4	b	30.11	-0.06	66	63	+3	2	0	b	1	82	63	—	
PENINSULA.																		
Corunna ...	30.02	66	WNW	4	b	30.03	+0.02	66	62	-5	N	1	b	2	79	61	—	
Lisbon ...	30.02	66	WNW	4	b	30.03	+0.02	66	62	-5	N	1	b	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

Wednesday, 6th August,

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:

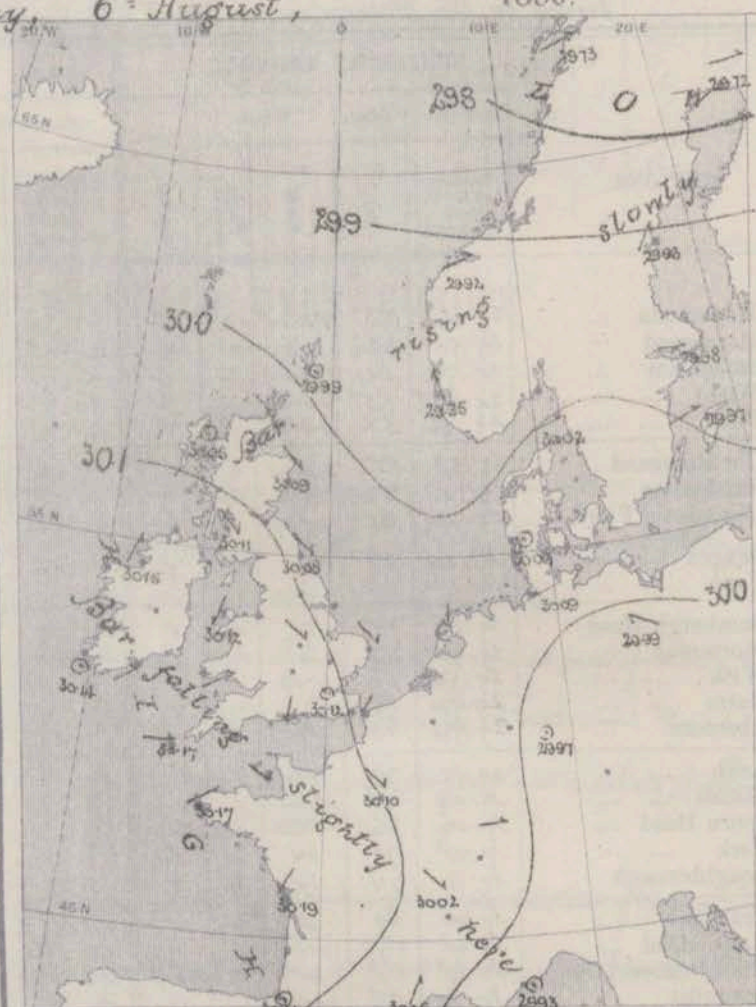
■ = Rough. ■ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
	<i>(ins.)</i>
Sumburgh Head	29.793
Stornoway	29.802
Wick	29.818
Nairn	29.827
Aberdeen	29.835
Leith	29.852
Shields	29.875
York	29.907
Loughborough	29.925
Ardrossan	29.860
Dougladale	29.877
Holyhead	29.904
Liverpool	29.903
Parsonstown	29.919
Valencia	29.922
Roche's Point	29.922
Pembroke	29.921
Scilly	29.958
Jersey	29.976
Hurst Castle	29.960
Dover	29.950
LONDON	29.952
Oxford	29.943
Cambridge	29.934
Yarmouth	29.929



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.

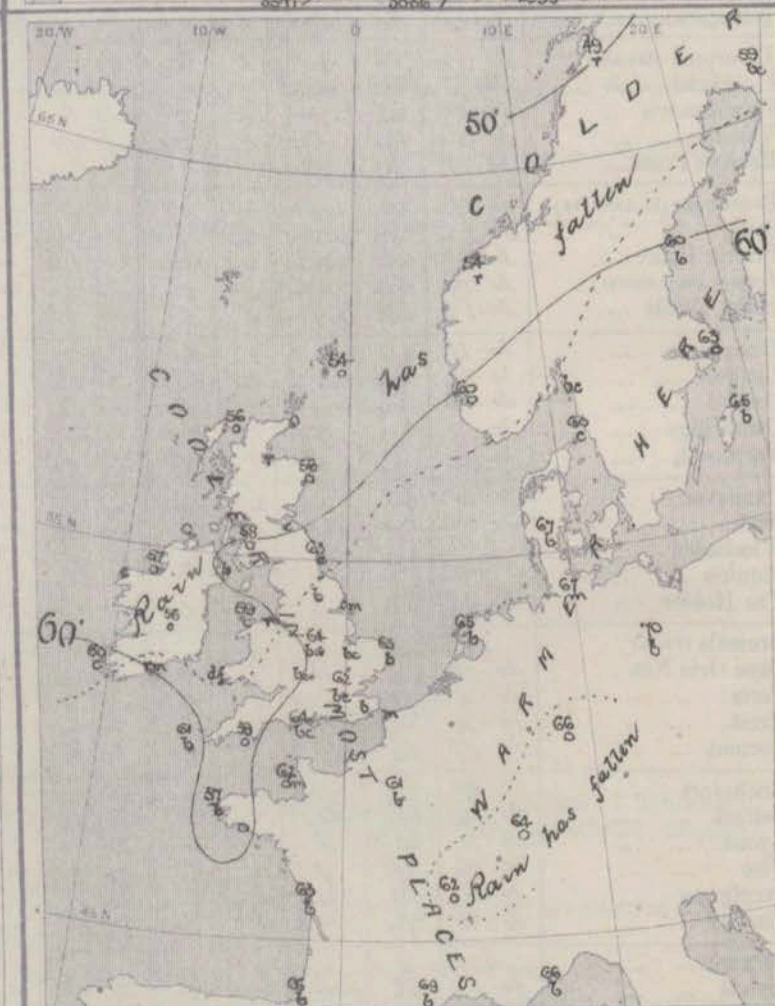
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of August.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	57.9	48.5	53.8	52.0	3.21
Stornoway	58.5	49.0	55.2	53.3	3.57
Wick	61.1	48.5	55.2	53.2	2.35
Nairn	63.1	50.2	55.6	52.7	2.81
Aberdeen	63.1	50.2	56.7	53.6	3.13
Leith	65.8	51.4	57.6	54.6	2.62
Shields	63.5	52.3	57.5	54.9	2.81
York	68.1	51.4	58.0	55.3	2.47
Loughborough	70.5	52.1	59.9	57.4	2.61
Ardrossan	64.0	53.1	57.3	54.9	4.08
Dougladale	61.8	52.0	57.0	55.5	2.99
Holyhead	64.3	55.0	58.5	56.4	2.89
Liverpool	65.7	54.3	58.7	55.5	2.79
Parsonstown	66.2	51.7	57.6	55.7	3.48
Valencia	65.0	54.1	59.4	57.0	4.65
Roche's Point	66.6	53.9	59.0	56.4	3.50
Pembroke	63.7	55.8	58.9	56.6	2.91
Scilly	64.9	57.2	61.1	59.1	2.45
Jersey	69.0	57.4	63.1	60.0	2.25
Hurst Castle	68.1	56.1	61.2	59.1	2.31
Dover	67.1	57.2	62.6	59.0	2.06
LONDON	71.8	53.7	61.4	57.8	2.20
Oxford	69.2	53.4	59.2	56.4	2.33
Cambridge	71.3	52.1	60.2	57.3	2.25
Yarmouth	65.4	55.1	60.8	57.9	2.17

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, in a large anticyclone lying over the greater part of England, Ireland, and France.
 Lowest, 29.8 in. and less, over the north of Scandinavia.
 Gradients slight. Barometer rising a little over the northern and eastern parts of the United Kingdom, as well as in Sweden and the extreme south of France, but falling slightly elsewhere.

TEMPERATURE

Highest, 70° at Berlin, 68° at Lerpapun, 67° at Leno and Copenhagen and 66° at Mäntadon, Näs, Rönne and Lönne.
 Lowest, 48° at Åbo, 54° at Christiansund, Lumburg, Trondheim, and Ålesund, 55° at Forset, and 56° at Hammer, Abisko, and Porsmorken.
 During yesterday the thermometer rose to 81° at Loughborough and in London, and to 82° at Cambridge.

WIND

Light from the NW^{ly} over the eastern parts of Great Britain and France, and from the NW^{ly} or NE^{ly} over the Bay of Biscay and the western part of the Channel.
 Light from W. or SW. in the west and southwest of our islands, and moderate to strong from the same quarters in Scandinavia.
 Light from the E^{ly} in North Germany; variable in the south of France.

WEATHER

Bleak in the west and north of our islands, and also in the west of Norway, with rain in many places.
 Fine in nearly all other localities, but a shower has been reported at Dyfod.
 Since yesterday morning rain has fallen at many of our western and northern stations.

SEA

Smooth on nearly all parts of our own coasts, but moderate off the coast of Norway.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are at present no indications of the presence of any definite depression over our islands, but the distribution of pressure is becoming somewhat irregular, and the dull unsettled weather now prevailing in the west is not unlikely to spread eastwards.

FORECASTS

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

DISTRICTS.

FORECASTS.

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

NW^{ly} to W^{ly} winds, light; cloudy, some showers
 Same as No. 5.
 Light breezes, chiefly NW^{ly}; unsettled, some rain, thunder locally.

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.
 Light breezes, chiefly W^{ly}; changeable, some rain.
 W^{ly} and SW^{ly} winds, light; cloudy, some rain.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	THER:								THER:						
	BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA
Skudesnaes ...	30.09	62	58	SE	2	0	3	Holyhead ...	30.16	64	60	SW	4	C	3
Sumburgh Head ...	29.98	56	54	SW	2	0	2	Valencia ...	30.14	62	61	SW	6	TM	5
Stornoway ...	29.97	57	56	SW	2	0	2	Scilly ...	30.25	62	60	W	2	0	2
Aberdeen ...	29.97	73	64	SW	4	0	3	Jersey ...	30.23	65	63	W	3	CM	3
Shields ...	30.08	72	65	W	3	C	2	Dungeness ...	30.16	62	65	2	0	6	0
Ardrossan ...	30.06	63	60	S	2	0	3	London ...	30.16	77	65	SW	3	6	2
Malin Head ...	29.96	62	61	S	6	0	2	Yarmouth ...	30.16	69	64	SW	3	6	2
Mullaghmore ...	30.03	63	62	SW	5	0	3	Rocheport ...	30.25	76	70	W	3	6	2
Belmullet ...	30.05	60	58	W	1	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 at some of the Scandinavian and German stations, with rain at Stornoway and Belmullet, and also at Wiesbaden and Belfort. Rain falling later in nearly all the more western and northern parts of the United Kingdom; amounts slight in most places, but rather heavy in the north of Scotland.

Temperature highest, 80° at Malta, 79° at Trieste and Brindisi, and 78° at Legna, Palermo, La Calle and Tunis; above 70° over Southern and Eastern Europe generally, and just reaching that level at Leith and Cambridge. Lowest, 56° at Sumburgh H^d and Stornoway, 57° at Brest and Lorient, 58° at Helingsfors and Holyhead; a little below 60° over Central France. Subsequently rising to 80° or a little more over the inland part of England but remaining below 70° at many of our western and southern stations.

Wind S^W or SW^W in nearly all parts of the United Kingdom, light in force generally, but fresh or strong in the west of Ireland. W^W over Scandinavia, Denmark, and Northern Russia, with a gale at Christiansund. Light from the E^W or NE^W over the greater part of Spain, France, and Central Europe, but variable in Italy and the south of Russia, and NW^W or N^W in Algeria. Subsequently veering to the NW^W in the north of Ireland, and shifting to the same quarter in the west of France.

Barometer highest, 30.2 in: and upwards, in a large anticyclone covering the Bay of Biscay, France, the Netherlands, North Germany, and the southern parts of our Islands. Lowest, 29.5 in: in a well defined depression lying off the northwest of Norway; other disturbances lying to the westward of our Islands; shallow systems with readings below 30.0 in: lying over the Adriatic, Northern Italy, and the Gulf of Genoa. Low pressure systems in far west subsequently advancing eastwards over our western and 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 *Thursday 7th August.* 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. 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 ...	27.71	55	2	0	c	27.86	+14	55	51	-4	N	2	p	•	66	40	—	
Hernösand ...	27.73	55	2	0	c	27.77	+01	53	52	-1	NNW	4	b	•	70	52	0.12	
Stockholm ...	27.53	61	WNW	2	bc	27.51	-07	65	62	+2	NNW	4	•	•	75	59	0.04	
Wisby ...	27.86	63	•	2	bc	27.90	-07	67	65	+2	WNW	4	bc	•	75	61	—	
Bodö ...	27.88	51	WNW	4	•	30.01	+22	50	40	+1	W	4	bc	2	40	0.16		
Christiansund	30.01	54	WNW	4	c	30.09	+17	53	50	-1	W	1	f	2	55	52	0.04	
Skudesnaes ...	30.02	55	NW	7	•	30.10	+15	50	53	-2	NNW	6	c	3	57	54	—	
Christiania Fjord (Færder)	29.90	62	SW	4	•	29.95	-01	60	59	-4	NNE	3	•	1	63	?	—	
Skagen (The Seaw)	29.96	60	2	0	c	29.95	-07	59	57	-1	W	1	•	2	60	55	0.16	
Fanö ...	30.03	60	W	4	•	30.08	+02	59	58	-1	NNW	4	c	•	60	57	—	
Sumburgh Head	30.05	54	W	1	c	30.10	+11	55	53	+1	SW	3	•	3	59	50	—	
Stornoway ...	30.10	62	SW	2	c	30.16	+11	56	54	•	2	•	bc	2	62	50	—	
Wick ...	30.12	59	NW	2	bc	30.18	+12	60	56	+3	2	•	•	0	60	42	0.02	
Nairn ...	30.13	60	2	0	c	30.18	+05	58	55	+4	2	•	•	0	61	49	—	
Aberdeen ...	30.17	55	SW	1	•	30.22	+13	57	53	+1	•	1	c	1	62	51	0.02	
Leith ...	30.13	60	E	1	•	30.20	+10	59	57	•	NNE	1	c	•	64	52	—	
Shields ...	30.13	60	E	2	•	30.20	+12	58	56	-5	SE	2	•	2	64	56	—	
Spurn Head ...	30.12	60	NNE	2	c	30.20	+13	61	57	-2	ENE	3	bc	2	66	57	—	
York ...	30.02	65	ENE	1	bc	30.22	+12	58	55	-5	E	1	•	•	70	56	—	
Loughborough	30.09	73	NNW	3	c	30.21	+09	60	58	-4	ENE	2	sgm	•	70	58	—	
ARDROSSAN ISLANDS.																		
Ardrossan ...	30.14	61	WNW	2	•	30.17	+06	61	59	+2	NNE	2	sm	1	62	53	—	
Malin Head ...	30.13	59	NNE	2	c	30.16	+04	59	54	+2	ENE	1	bcw	0	61	52	—	
Mullaghmore ...	30.15	61	2	•	c	30.15	0.0	60	57	+3	E	2	bcw	2	62	51	—	
Belmullet ...	30.15	62	NNNE	1	c	30.12	-03	62	59	+3	E	1	c	•	66	53	—	
Donaghadee ...	30.15	59	NNE	2	c	30.19	+04	59	55	-2	NNE	3	bc	1	64	57	—	
Liverpool (Bidston)	30.14	63	NW	2	c	30.18	+06	65	58	+5	NNE	1	m	1	67	59	0.02	
Holyhead ...	30.15	59	N	1	fg	30.17	+05	64	59	+5	NNE	1	bcw	1	64	54	0.01	
Parsonstown ...	30.12	65	2	•	bc	30.14	-02	61	57	+5	2	•	bc	3	70	55	—	
Valencia ...	30.12	65	WNW	1	c	30.13	-01	61	59	+1	SE	2	bc	3	69	53	—	
Roche's Point...	30.13	61	•	2	f	30.13	-01	60	58	+1	SE	1	•	3	65	58	0.02	
Pembroke (St. Ann's Hd.)	30.15	60	WNW	2	•	30.15	0.0	60	60	+2	NNE	1	f	•	61	58	0.02	
Scilly ...	30.17	63	WNW	1	•	30.14	-03	61	61	•	N	1	•	1	63	55	—	
Prawle Point ...	30.14	60	NNW	3	c	30.15	-01	58	57	-1	NNNE	3	•	1	66	52	—	
Jersey (St. Aubin's)	30.14	66	NNW	3	csm	30.14	-02	64	61	+2	NNE	2	bm	2	66	58	—	
Hurst Castle ...	30.11	67	WNW	2	c	30.16	+01	65	63	+1	NNNE	1	bm	0	69	58	—	
Dungeness ...	30.08	67	2	•	m	30.14	+07	60	59	-3	NNE	4	•	2	72	58	—	
London ...	30.08	72	NNW	1	bc	30.19	+07	60	58	-2	NNE	2	•	•	75	55	—	
Oxford ...	30.12	65	N	1	c	30.18	+06	61	59	+2	ENE	1	•	•	77	57	—	
Cambridge ...	30.12	74	N	1	c	30.20	+09	61	58	-1	E	1	•	•	77	57	—	
Yarmouth ...	30.10	65	N	3	c	30.17	+05	62	58	-1	NE	3	bcv	3	70	57	—	
GERMANY & HOLLAND.																		
Cuxhaven ...	30.04	64	N	2	c	30.07	-02	62	60	-5	N	4	bc	•	72	61	—	
Berlin ...	29.55	76	SE	2	c	29.56	-03	69	65	-1	NNE	4	•	•	84	66	—	
Wiesbaden ...	30.03	62	•	•	•	30.00	+03	65	64	-1	2	•	•	•	75	59	0.08	
Munich ...	30.03	62	SW	1	c	30.00	•	59	59	•	SW	4	•	•	70	57	1.69	
The Helder ...	30.07	64	N	1	c	30.13	+07	61	57	-4	NNNE	2	c	3	70	61	—	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.)	30.10	67	NW	2	•	30.13	+07	61	59	-2	NNE	3	m	4	72	59	—	
Cape Gris Nez	30.04	74	NNW	2	c	30.08	-02	62	59	+1	NNW	2	bc	•	72	56	—	
Paris ...	30.10	66	NNE	3	c	30.11	-06	62	61	+5	NNE	2	•	1	70	52	—	
Brest ...	30.11	67	W	1	c	30.11	-06	58	57	+3	NE	2	•	1	68	54	—	
Lorient ...	30.11	67	W	1	c	30.11	-06	58	57	+3	NE	2	•	1	68	54	—	
Roche fort ...	30.13	72	NNW	4	c	30.12	-07	64	61	+1	ENE	3	c	•	77	55	—	
Belfort ...	30.04	62	W	1	•	30.04	-02	60	52	-4	W	1	•	•	76	56	—	
Lyons ...	30.04	62	E	1	p	30.03	+01	62	61	•	E	1	m	•	70	51	0.32	
Nice ...	29.90	69	•	4	c	29.89	-04	68	61	+2	NNE	3	bc	1	75	59	—	
Perpignan ...	29.97	82	NNW	3	c	29.98	-01	69	62	•	2	•	•	•	80	59	—	
Biarritz ...	30.02	72	NNE	4	c	30.01	-10	66	63	•	2	•	•	•	79	63	—	
PENINSULAR.																		
Corunna ...	30.00	66	NNW	4	•	30.01	-02	63	60	-3	2	•	m	2	72	61	—	
Lisbon ...	30.00	66	NNW	4	•	30.01	-02	63	60	-3	2	•	m	2	72	61	—	

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, 7 August,

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:

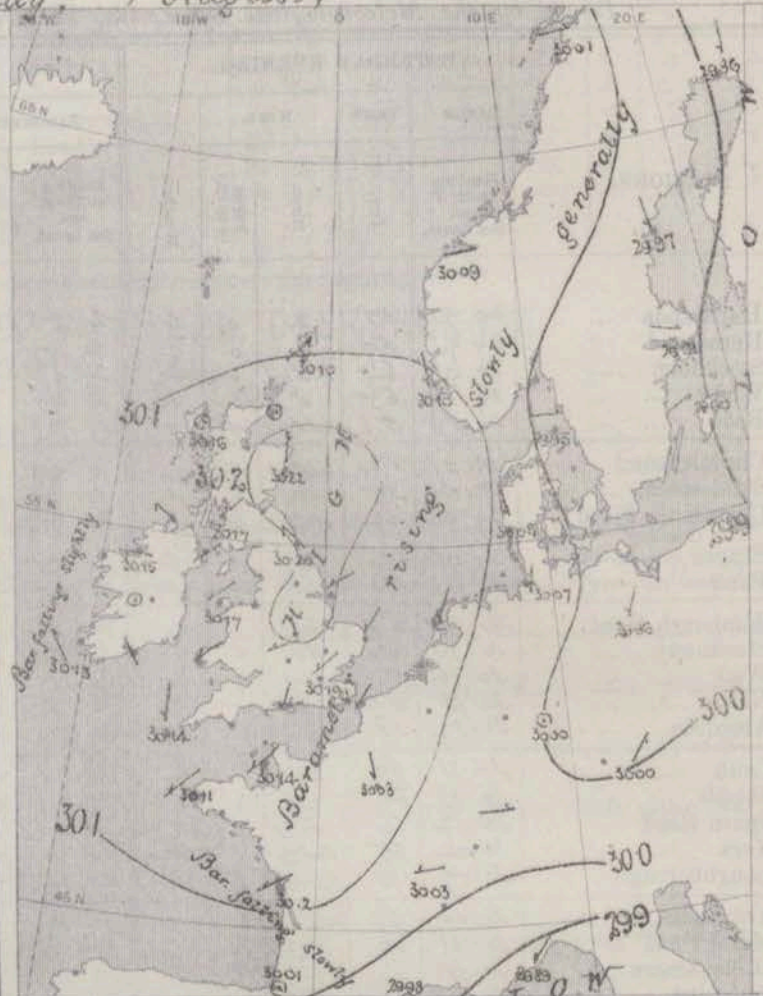
■ = Rough. ■ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.793
Stornoway	29.802
Wick	29.818
Nairn	29.827
Aberdeen	29.835
Leith	29.852
Shields	29.875
York	29.907
Loughborough	29.925
Ardrossan	29.960
Donaghadee	29.877
Holyhead	29.904
Liverpool	29.903
Parsonstown	29.919
Valencia	29.922
Roche's Point	29.922
Pembroke	29.921
Seilly	29.958
Jersey	29.976
Hurst Castle	29.960
Dover	29.950
LONDON	29.952
Oxford	29.943
Cambridge	29.934
Yarmouth	29.929



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.2 ins. and upwards, in the north of England and the east of Scotland; 30.1 ins. and upwards, in an anticyclone covering the whole of our Islands and the North Sea, with the north and northwest of France.
Lowest, 29.9 ins. and less, over Lapland, Finland, and the Baltic and also over the Gulf of Genoa.

Gradients slight. Barometer falling slightly in the east of Ireland and the south of France, but rising elsewhere.

TEMPERATURE

Highest, 69° at Berlin and Perpignan, 68° at Nice, 67° at Witley, 66° at Biarritz, and 65° at Stockholm, Liverpool, Huntly, and Wick.
Lowest, 50° at Bodo, 53° at Christiansund, 55° at Haparanda and Sumburg, 56° at Skutumpah, and 57° at Abisko.

The highest maxima registered over our Islands were 77° at Oxford and Cambridge, 78° at York and 80° at Loughborough.

WIND

Light from the NE^{ly} over the greater part of England and France, and from the E^{ly} or SE^{ly} in Ireland.
Calm or very variable in Scotland.

N^{ly} or NW^{ly} at most of the Scandinavian, Danish and North German stations, but W^{ly} in the west of Norway.

Fine over the greater part of Western Europe, but dull at several of the English stations, and also in Germany.

WEATHER

Fog was reported at Loughborough, as well as at Skutumpah.

Slight rain fell yesterday at a few of our western and northern stations, and heavy rain (1.7 ins.) at Munich.

SEA

Slight or smooth generally.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

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

FORECASTS

For the 24 hours ending at NOON on 8TH AUGUST 1890.

DISTRICTS.

FORECASTS.

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

Calm and Variable airs;
fine, warmer.

Same as No 5

NE^{ly} and E^{ly} winds, light, fair generally.

DISTRICTS.

FORECASTS.

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

Same as No 5

E^{ly} and SE^{ly} winds, light or moderate;
fine 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		WEA.	SEA		THER:		WIND		WEA.	SEA
	BAR.	D.	W.	D.				BAR.	D.	W.	D.		
Skudesnaes ...	30.58	51	57	NW	6	f		Holyhead ...	30.13	60	57	N	3
Sumburgh Head ...	30.23	57	53	N	2	bc		Valencia ...	30.14	65	63	NW	1
Stornoway ...	30.10	60	55	W	2	C	2	Scilly ...	30.17	63	62	W	1
Aberdeen ...	30.16	53	53	SE	1	od	1	Jersey ...	30.17	65	58	NW	3
Shields ...	30.12	61	58	ENE	2	C	2	Dungeness ...	30.08	71	65	SW	1
Ardrossan ...	30.15	60	56	WNW	1	0	1	London ...	30.10	75	64	WNW	1
Malin Head ...	30.16	61	56	NW	1	0	0	Yarmouth ...	30.09	69	62	NNE	3
Mullaghmore ...	30.16	61	56	NNE	1	C	1	Rochefort ...	30.17	77	70	WNW	3
Belmullet ...	30.17	62	56	S	1	C	*						

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 and north of our Islands and also in the west of Norway, with rain in many places. Rain falling later in Germany and the south of France, heavily (1.7 in.) at Munich.

Temperatures highest, 81° at Brindisi, 81° at Palma, 78° at La Balla and 77° at Trieste, Lina, Barcelona and Malta; above 70° over Southern and Eastern Europe generally. Lowest 49° at Bodo, 54° at Christiansund, Sumburgh H. and Nairn, and 55° at Lorient and Leningrad; below 60° in nearly all the more western and northern parts of the United Kingdom. Subsequently rising to between 75° and 80° over the inland parts of England, and reaching 84° at Berlin, and 88° at Kiev.

Wind light from the NWnd over the eastern parts of Great Britain and France, and from the Nnd or NEnd over Portugal, the Bay of Biscay and the eastern part of the Channel. Light from the Wnd or SWnd in the west and southwest of our Islands, and moderate or strong from the same quarters in Scandinavia. E^{ty} in Germany, N^{ty} or NW^{ty} in Italy and Algeria, variable in Austria and the greater part of Russia. Subsequently becoming variable in nearly all parts of the United Kingdom.

Barometer highest 30.1 in: and upwards, in a large anticyclone covering the greater part of England, Ireland, and France, as well as in smaller systems lying respectively over North Germany, the south of Russia, and Morocco. Lowest, 29.7 in: and less, over Lapland and the White Sea, 29.9 in: and less, in a shallow depression lying over the eastern shores of the Adriatic. Anticyclone over our Islands subsequently spreading northwards.

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 8TH AUGUST 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.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force, (0 to 12.)				Max.	Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ...	29.54	54	2	0	6	30.11	+25	58	53	+3	2	0	6	•	59	45	—
	Hernösand ...	30.02	54	2	0	6	30.13	+16	57	50	-2	N	2	6	•	73	54	—
	Stockholm ...	30.02	59	ENE	2	0	30.08	+17	62	56	-3	NNW	2	6	•	68	59	0.04
	Wisby ...	29.58	59	SE	4	0	30.03	+13	62	57	-3	NNE	2	6	•	72	59	—
	Bodö ...	30.11	50	W	2	0	30.18	+17	53	48	+3	2	1	6	1	54	48	—
	Christiansund	30.13	53	N	2	6	30.21	+12	53	52	0	SE	2	6	2	57	48	—
	Skudesnes ...	30.15	56	NW	3	C	30.16	+06	61	56	+3	NNW	2	6	3	61	54	—
	Christiania Fjord (Færder)	30.02	62	E	3	6	30.13	+18	60	58	0	N	4	C	1	63	53	0.08
	Skagen (The Scaw)	30.00	59	2	0	6	30.06	+11	60	58	+1	NE	2	0	2	66	57	—
	Fanö ...	30.07	57	N	4	2	30.07	+01	58	58	-1	N	1	C	•	63	54	—
BRITISH ISLANDS.	Sumburgh Head	30.15	54	WNW	2	6	30.20	+10	51	51	-4	2	0	6	2	57	50	0.01
	Stornoway ...	30.18	53	SE	2	6	30.17	+01	56	54	0	2	2	6	2	62	48	—
	Wick ...	30.22	65	2	0	6	30.23	+05	59	57	-1	SE	1	6	0	68	40	—
	Nairn ...	30.17	66	E	1	6	30.23	+04	55	54	-3	2	0	W	0	67	47	—
	Aberdeen ...	30.22	58	S	2	6	30.24	+02	58	55	+1	2	1	6	1	64	44	—
	Leith ...	30.18	62	E	1	6	30.22	+02	56	53	-3	NE	1	om	•	64	56	—
	Shields ...	30.21	60	SE	3	C	30.23	+03	58	56	0	SE	1	m	2	60	52	—
	Spurn Head ...	30.20	59	ENE	3	C	30.20	0.0	59	54	-2	NE	2	C	2	62	53	—
	York ...	30.20	64	E	2	0	30.23	+01	57	53	-1	E	1	C	•	70	49	—
	Loughborough	30.17	67	ENE	2	C	30.21	0.0	59	53	-1	ENE	3	6	•	74	52	—
GERMANY & HOLLAND.	Ardrossan ...	30.14	62	W	1	C	30.18	+01	57	53	-4	NE	2	om	1	68	53	—
	Malin Head ...	30.13	59	E	2	6	30.15	+01	61	58	+2	E	2	6	0	61	53	—
	Mullaghmore ...	30.12	65	N	1	6	30.13	+02	59	53	-1	ENE	5	6	2	56	53	—
	Belmullet ...	30.11	64	NNW	1	6	30.10	+02	63	60	+1	ESE	1	6	•	69	58	—
	Donaghadee ...	30.16	63	S	2	6	30.19	0.0	59	57	0	ENE	2	m	1	64	53	—
	Liverpool (Bidston)	30.15	68	SE	1	0	30.18	0.0	57	53	-4	ESE	4	0	3	70	56	—
	Holyhead ...	30.15	59	NE	3	6	30.13	-04	63	62	-1	2	0	om	0	69	57	—
	Parsonstown ...	30.10	72	2	0	6	30.10	-04	57	56	-4	2	0	C	•	73	47	—
	Valencia ...	30.09	65	SE	2	6	30.03	-10	63	61	+2	2	0	6	1	67	56	—
	Roche's Point...	30.11	63	NE	2	6	30.08	-05	64	61	+4	E	3	6	3	65	60	—
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.11	65	NNE	3	6	30.10	-05	60	58	0	ESE	5	C	3	66	58	—
	Scilly ...	30.08	60	NE	4	6	30.01	-13	62	61	+1	E	5	m	1	67	58	—
	Prawle Point ...	30.11	60	NNE	4	C	30.10	-05	59	58	+1	NNE	5	C	3	68	53	—
	Jersey (St. Aubin's)	30.07	68	ENE	3	6	30.08	-06	64	60	0	ENE	5	6	3	72	60	—
	Hurst Castle ...	30.12	68	ENE	2	m	30.12	-04	60	58	-5	ENE	4	6	2	72	57	—
	Dungeness ...	30.12	63	NE	5	6	30.08	-06	62	56	+2	NE	5	C	3	66	57	—
	London ...	30.16	63	ENE	3	6	30.15	-04	61	55	+1	NE	3	0	•	72	52	—
	Oxford ...	30.16	64	E	3	0	30.18	0.0	58	54	-3	NE	1	6	•	72	50	—
	Cambridge ...	30.19	67	2	0	6	30.17	-03	61	56	0	NNE	1	0	•	72	45	—
	Yarmouth ...	30.19	62	NE	3	6	30.16	-01	60	55	-2	NE	4	6	3	64	56	—
PENIN. & SOUTHERN.	Cuxhaven ...	30.10	64	NW	4	C	30.08	+01	64	62	+2	NNW	3	6	•	66	57	—
	Berlin ...	29.97	72	NNW	5	C	29.99	+03	65	60	-4	NNW	4	C	•	81	61	—
	Wiesbaden ...	30.01	62	SW	5	C	30.01	+01	64	61	-1	2	0	6	•	75	63	0.13
	Munich ...	30.01	62	SW	5	C	30.01	+01	60	60	+1	2	0	6	•	68	57	0.12
	The Helder ...	30.15	60	NNE	2	C	30.13	0.0	59	53	-2	NNE	1	C	2	63	57	—
	Brussels (a.m.)	30.13	62	NE	5	6	30.09	-01	60	58	-1	ENE	2	0	•	74	53	—
	Cape Gris Nez	30.02	73	NE	3	6	30.03	-05	61	59	-1	NNE	3	0	4	56	57	—
	Paris ...	29.95	72	NE	4	6	29.93	-18	64	62	+2	E	4	0	3	77	52	—
	Brest ...	30.02	69	NNW	1	6	29.95	-16	63	63	+3	E	3	m	2	73	51	—
	Lorient ...	30.02	69	NNW	1	6	29.95	-16	63	63	+3	E	3	m	2	73	51	—
FRANCE AND BELGIUM.	Rochefort ...	29.98	79	NW	3	6	29.95	-17	67	65	+3	NE	4	C	•	81	61	—
	Belfort ...	30.04	64	W	1	C	29.95	-09	64	52	+4	W	1	0	•	77	56	—
	Lyons ...	29.94	72	NNE	2	6	29.94	-09	64	62	+2	N	1	C	•	76	60	—
	Nice ...	29.97	70	W	5	6	29.98	-01	66	62	-2	NE	3	6	•	79	61	—
	Perpignan ...	29.96	70	2	0	6	29.95	-01	71	64	+2	2	0	6	•	78	62	—
	Biarritz ...	29.92	71	ENE	2	6	29.92	-19	69	65	+3	ESE	2	6	1	81	64	—
	Corunna ...	29.94	66	NW	4	6	29.96	-05	64	59	+1	NNW	3	C	2	78	63	—
	Lisbon ...	29.94	66	NW	4	6	29.96	-05	64	59	+1	NNW	3	C	2	78	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, 8th August,

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:

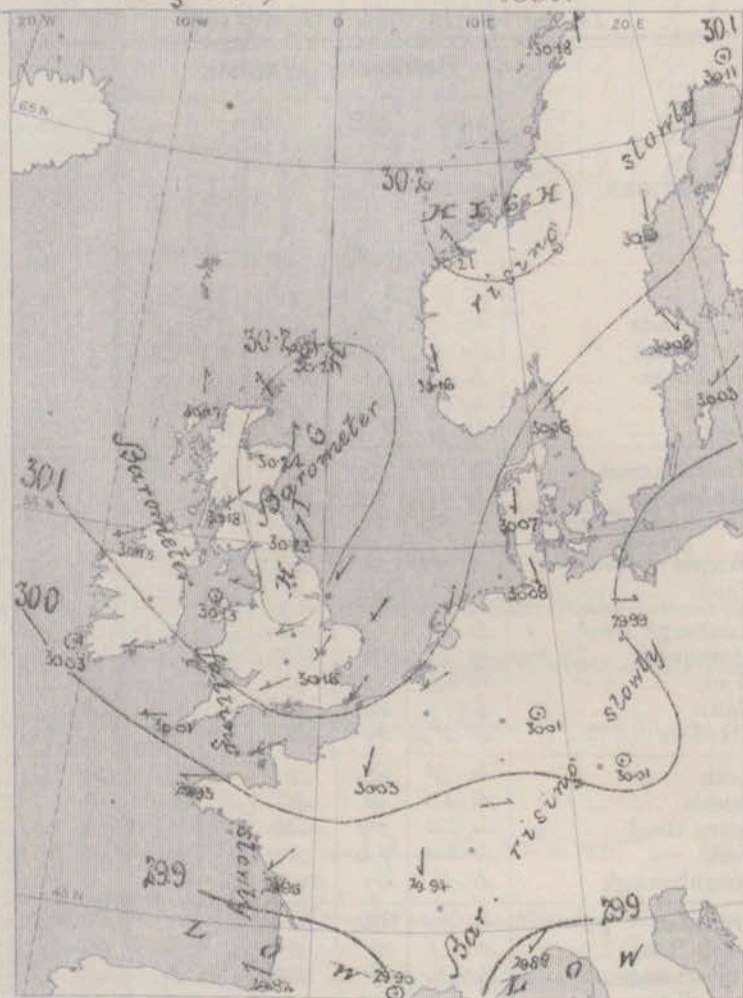
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.793
Stornoway	29.802
Wick	29.813
Nairn	29.827
Aberdeen	29.835
Leith	29.852
Shields	29.875
York	29.907
Loughborough	29.925
Ardrossan	29.860
Donaghadee	29.877
Holyhead	29.904
Liverpool	29.903
Parsonstown	29.919
Valencia	29.922
Roche's Point	29.922
Pembroke	29.921
Sailly	29.958
Jersey	29.976
Hurst Castle	29.960
Dover	29.950
LONDON	29.952
Oxford	29.943
Cambridge	29.934
Yarmouth	29.929



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.

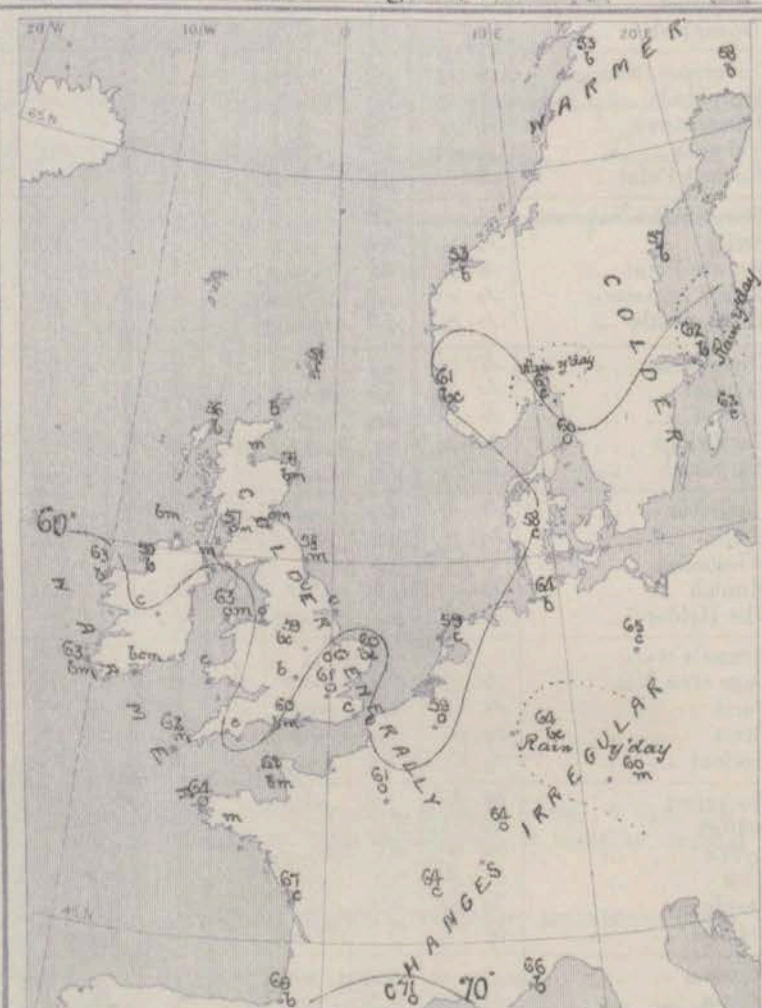
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL

(For the month of August.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	57.9	48.5	53.8	52.0	3.21
Stornoway	58.5	49.0	55.2	53.3	3.57
Wick	61.1	48.5	55.2	53.2	2.55
Nairn	63.4	50.2	55.6	52.7	2.81
Aberdeen	63.1	50.2	56.7	53.6	3.13
Leith	65.8	51.4	57.5	54.6	2.62
Shields	63.5	52.3	57.5	54.9	2.81
York	68.1	51.4	58.0	55.3	2.47
Loughborough	70.5	52.1	59.9	57.4	2.61
Ardrossan	64.0	53.1	57.3	54.9	4.08
Donaghadee	61.3	52.0	57.0	55.5	2.99
Holyhead	64.3	55.0	58.5	56.4	2.82
Liverpool	65.7	54.3	58.7	55.5	2.79
Parsonstown	66.2	51.7	57.6	55.7	3.48
Valencia	65.0	54.1	59.4	57.0	4.65
Roche's Point	66.6	53.9	59.0	56.4	3.50
Pembroke.....	63.7	55.8	58.9	56.5	2.91
Sailly	64.9	57.2	61.1	59.1	2.45
Jersey	69.0	57.4	63.1	60.0	2.20
Hurst Castle	68.1	56.1	61.2	59.1	2.31
Dover	67.1	57.2	62.6	59.0	2.08
LONDON	71.8	53.7	61.4	57.8	2.20
Oxford	69.2	53.4	59.2	56.4	2.33
Cambridge	71.3	52.1	60.2	57.3	2.25
Yarmouth	66.4	55.1	60.8	57.9	2.17

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.2 in: and upwards, in an anticyclone lying over Scotland, the northeast of England and the adjacent parts of the North Sea, and also in a smaller system lying over the W. of Norway.
Lowest, 29.9 in: in a large shallow depression over Spain and the southwest of France and also in a small disturbance over the Gulf of Genoa.
Gradients slight. Barometer rising in Scandinavia and the northeast of our islands as well as in the south of France, but falling elsewhere.

TEMPERATURE

Highest, 71° at Perpignan, 69° at Biarritz, 67° at Rochefort, 66° at Nice, 65° at Berlin, and 64° at Jersey, Copenhagen, Rostock and Lyons.
Lowest, 51° at Lumburg, 44° at Hüll and Christiansburg, 55° at Helsingfors and Abo, and 57° at Stockholm, Altona, Yarmouth, Liverpool and Bremen.
The highest maxima registered over our islands yesterday were 74° at Loughborough, 73° at Lancaster, and 72° at Oxford, Cambridge and in London.

WIND

E or NE over England, Ireland, and France, light or moderate in force, generally, but fresh at the Channel stations.
Light from the NW over Sweden, Denmark, and the Netherlands.
S or SE in Scotland and the west of Norway.

WEATHER

Fine generally, but hazy in many parts of the United Kingdom, and foggy at Lumburg Head.
Dry weather prevailed yesterday in nearly all parts of Western Europe, but rain fell at some of the Scandinavian and German stations.

SEA

Slight or smooth on all coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

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

FORECASTS

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

DISTRICTS.

FORECASTS.

DISTRICTS.

FORECASTS.

0 SCOTLAND
NORTH

1 SCOTLAND
EAST

2 ENGLAND
N.E.

3 ENGLAND
EAST

4 MIDLAND
COUNTIES

5 ENGLAND
SOUTH

S^W and SE^W winds, light, fine generally.

Same as No 5.

E^W and NE^W winds, moderate;
fair generally.

6 SCOTLAND
WEST

7 ENGLAND
N.W.

8 ENGLAND
S.W.

9 IRELAND
NORTH

10 IRELAND
SOUTH

NE^W winds, light; fair generally.

E^W winds, freshening; fair generally

E^W winds, strong; fair generally.

Same as No 7.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	30.17	60	54	NW	6	c	3		Holyhead ...	30.17	60	54	NNE	3	2
Sumburgh Head ...	30.14	54	54	SW	3	f	3		Valencia ...	30.11	66	62	2	2	2
Stornoway ...	30.15	61	56	W	2	6	2		Scilly ...	30.11	60	60	NE	3	1
Aberdeen ...	30.21	63	57	SE	1	6	2		Jersey ...	30.10	73	66	ENE	3	3
Shields ...	30.21	59	57	SE	3	0	2		Dungeness ...	30.13	66	61	NNE	4	3
Ardrossan ...	30.16	63	61	W	1	6	1		London ...	30.18	64	61	ENE	3	*
Malin Head ...	30.16	60	56	SE	3	c	1		Yarmouth ...	30.19	?	58	ENE	4	3
Mullaghmore ...	30.15	64	61	NW	2	c	2		Rocheport ...	30.06	81	73	NW	3	?
Belmullet ...	30.14	60	63	W	1	6	*								

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

Weather fine over the greater part of Europe, but dull at several of the English stations, as well as in Lapland, Finland, Germany, and Austria, with fog or haze locally, and rain at Haparanda. Some rain falling later in Germany, but weather remaining dry in all the more western countries.

Temperature highest 81° at Barcelona, Rhindia, and Constantinople, 80° at La Calle and 75° at Madrid; Sanguinaria, Cagliari, and Malta, above 70° in most parts of Southern and Eastern Europe. Lowest 50° at Bodö, 53° at Christianund, 55° at Haparanda and Sumburgh Head, and 56° at Stornoway, below 60° in many parts of Northwestern Europe. Daily maxima very little above 70° in any part of the United Kingdom, but thermometer exceeding 80° at some of the French and German stations, and reaching 90° at Perpignan.

Wind light from the NEnd over the greater part of England and France as well as in the south of Russia and from the End or SEnd in Ireland. Calm or variable in Scotland and also in Spain and Algeria. Nth or NWth over the greater part of Scandinavia, Denmark, Germany and Italy; Wth or SWth over Northern Russia and also in the west of Norway. NEth breeze freshening later over the Straits of Dover.

Barometer highest, 30.2 in. and upwards, in the north of England and the east of Scotland; 30.1 in. and upwards, in an anticyclone covering the whole of our Islands and the North Sea, with the north and northwest of France. Lowest, 29.9 in. and less, over Lapland and the extreme north of Russia, and also in three shallow depressions lying respectively over the northern part of the Baltic, over Corsica and the Gulf of Genoa, and west Central Spain. Spanish disturbance subsequently moving slowly northwards.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for *Saturday 5th August.* 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: Reading at 32° F. and Sea Level.	Temp. Dry.	Wind.		Weather.		Barometer.		Shade Temp.			Wind.		Weather.	Sea. (0 to 5.)	Shade Temp.		Amount of Rainfall.	
			Dir.	Force. (0 to 12.)			Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																			
Haparanda ...																			
Hernösand ...																			
Stockholm ...																			
Wisby ...																			
Bodö ...	†	30.23	53	SE	2	0	30.25	+0.7	53	50	0	ENE	2	0	1	54	48	0.04	
Christiansund ...	†	30.22	57	NNE	2	0	30.26	+0.5	54	53	+1	ENE	1	0	1	59	50	—	
Skudesnaes ...																			
Christiania Fjord (Frøder)		30.16	67	2	0	0	30.23	+0.10	59	54	-1	N	2	0	1	3	57	—	
Skagen (The Scaw)		30.13	63	NNE	1	0	30.20	+0.14	67	58	+3	E	1	0	1	72	57	—	
Fanö ...		30.09	62	NNE	2	0	30.14	+0.7	65	64	+7	NNE	4	0	*	72	55	—	
Sumburgh Head		30.20	55	2	0	0	30.24	+0.4	53	53	+2	2	0	0	0	57	50	0.01	
Stornoway ...		30.16	62	2	0	0	30.15	-0.2	61	59	+5	2	0	0	2	68	50	—	
Wick ...		30.21	56	E	1	0	30.24	+0.1	57	55	-2	E	1	0	0	64	46	—	
Nairn ...		30.16	59	E	2	0	30.19	-0.3	59	58	+4	2	0	0	1	64	54	—	
Aberdeen ...		30.22	61	ENE	1	0	30.24	0.0	56	55	-2	E	2	0	0	68	51	0.01	
Leith ...		30.16	64	NE	1	0	30.20	-0.2	56	55	0	ENE	1	0	0	66	46	—	
Shields ...		30.15	64	E	2	0	30.17	-0.6	58	55	0	NE	2	0	0	64	53	—	
Spurn Head ...		30.14	58	NE	4	0	30.10	-1.0	59	56	0	NE	3	0	0	63	53	—	
York ...		30.17	60	E	1	0	30.15	-0.8	57	55	0	E	1	0	0	70	55	0.02	
Loughborough		30.14	64	ENE	3	0	30.10	-1.1	58	57	-1	ENE	3	0	0	71	55	0.03	
BRITISH ISLANDS.																			
Ardrossan ...		30.13	67	NE	3	0	30.17	-0.1	57	55	0	E	3	0	0	71	51	—	
Malin Head ...		30.09	61	ENE	3	0	30.12	-0.3	59	56	-2	ENE	3	0	0	63	57	—	
Mullaghmore ...		30.05	70	ENE	4	0	30.10	-0.3	60	57	+1	E	4	0	0	72	56	—	
Belmullet ...		30.03	69	NE	1	0	30.06	-0.4	62	58	-1	ENE	1	0	0	75	57	—	
Donaghadee ...		30.13	62	SE	2	0	30.21	+0.2	60	57	+1	E	4	0	0	66	57	—	
Liverpool (Bidston)		30.11	66	ENE	2	0	30.11	-0.7	58	55	+1	E	3	0	0	70	56	—	
Holyhead ...		30.09	64	ENE	3	0	30.09	-0.4	58	56	-5	ENE	4	0	0	70	53	—	
Parsonstown ...		30.06	65	2	0	0	30.06	-0.4	61	59	+4	ENE	1	0	0	74	50	—	
Valencia ...		29.58	63	ENE	3	0	29.56	-0.7	63	59	0	E	3	0	0	74	59	—	
Roche's Point...		30.05	64	ENE	5	0	29.55	-0.9	60	57	-4	ENE	5	0	0	66	57	—	
Pembroke (St. Ann's Hd.)		30.06	61	ENE	4	0	30.00	-1.0	59	57	-1	ENE	4	0	0	64	57	—	
Scilly ...		29.59	62	E	5	0	29.50	-1.1	60	60	-2	E	5	0	0	64	56	—	
Prawle Point ...		30.03	59	E	5	0	29.56	-1.4	58	57	-1	E	5	0	0	63	53	—	
Jersey (St. Aubin's)		29.58	64	ENE	4	0	29.53	-1.5	64	61	0	E	5	0	0	68	52	—	
Hurst Castle ...		30.06	64	ENE	4	0	30.00	-1.2	62	60	-2	ENE	4	0	0	70	56	—	
Dungeness ...		30.04	62	NE	6	0	29.98	-1.0	63	61	+1	ENE	5	0	0	64	60	—	
London ...		30.08	60	ENE	2	0	30.04	-1.1	59	57	-2	NE	2	0	0	65	57	—	
Oxford ...		30.10	58	NE	3	0	30.04	-1.4	57	55	-1	NE	3	0	0	65	55	0.03	
Cambridge ...		30.11	60	NE	1	0	30.06	-1.1	59	58	-2	NE	1	0	0	67	55	0.04	
Yarmouth ...		30.10	60	NE	4	0	30.06	-1.0	66	59	0	ENE	4	0	0	62	56	0.01	
GERMANY & HOLLAND.																			
Cuxhaven ...		30.07	63	N	3	0	30.08	0.0	63	62	-1	E	3	0	0	67	62	—	
Berlin ...		29.96	72	NNE	4	0	30.03	+0.4	64	60	-1	NNE	3	0	0	73	59	—	
Wiesbaden ...							30.00	-0.1	66	63	+2	2	0	0	0	73	63	0.04	
Munich ...		30.01	61	2	0	0	30.03	+0.2	59	57	-1	2	0	0	0	72	57	0.04	
The Helder ...		30.07	61	NE	2	0	30.05	-0.8	63	61	+4	ENE	1	0	0	63	59	—	
FRANCE AND BELGIUM.																			
Brussels (2 a.m.)							29.98	-1.1	61	59	+2	ENE	2	0	0	63	57	—	
Cape Gris Nez		30.02	61	E	5	0	29.98	-1.4	63	62	+3	E	4	0	0	68	57	—	
Paris ...		29.95	69	NNE	3	0	29.94	-0.9	61	59	0	NNE	2	0	0	73	58	—	
Brest ...		30.08	71	E	4	0	29.94	-0.9	62	60	-2	E	3	0	0	73	58	—	
Lorient ...		29.88	73	E	2	0	29.85	-1.0	62	60	-1	ENE	3	0	0	79	59	—	
Rochefort ...		29.88	78	NE	3	0	29.88	-0.7	66	65	-1	ENE	3	0	0	88	59	—	
Belfort ...		29.94	62	W	1	0	29.98	+0.3	61	50	-3	W	1	0	0	74	52	—	
Lyons ...		29.88	71	ENE	1	0	29.93	-0.1	64	64	0	ENE	1	0	0	76	61	—	
Nice ...		29.89	70	NNE	4	0	29.89	+0.7	68	64	+2	ENE	3	0	0	81	61	—	
Perpignan ...		29.88	73	NW	1	0	29.89	-0.1	70	68	-1	SE	1	0	0	82	63	—	
Biarritz ...		29.81	71	NW	4	0	29.86	+0.4	68	66	-1	ENE	2	0	0	81	66	—	
PENIN- SULA.																			
Corunna ...																			
Lisbon ...	†	29.92	65	NNE	4	0	29.92	-0.4	66	65	+2	0	4	0	0	72	63	0.04	

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

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

WEATHER CHARTS

for 8 a.m. on

Saturday, 9th August,

1890.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

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

→→ = forces 5 to 7; →→ = forces 1 to 4.

⊙ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

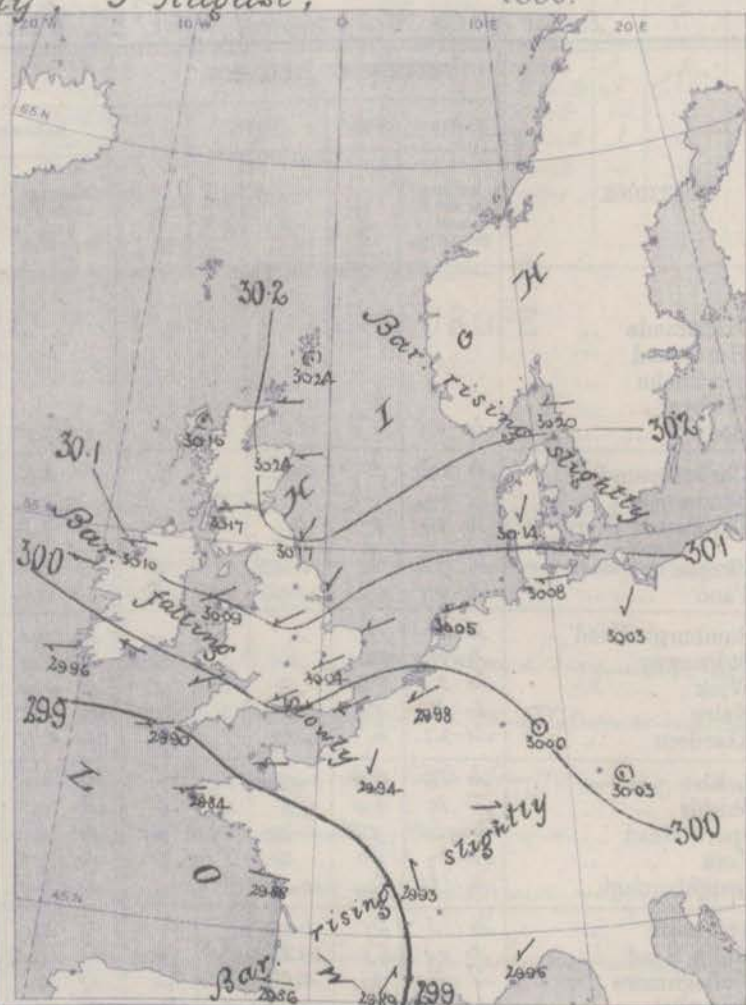
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.793
Stornoway	29.802
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Shields	29.875
York	29.907
Loughborough	29.925
Ardrossan	29.860
Donaghadee	29.877
Holyhead	29.904
Liverpool	29.903
Parsonstown	29.919
Valencia	29.922
Roche's Point	29.922
Pembroke	29.921
Sally	29.958
Jersey	29.976
Hurst Castle	29.960
Dover	29.950
LONDON	29.952
Oxford	29.943
Cambridge	29.934
Yarmouth	29.929



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.

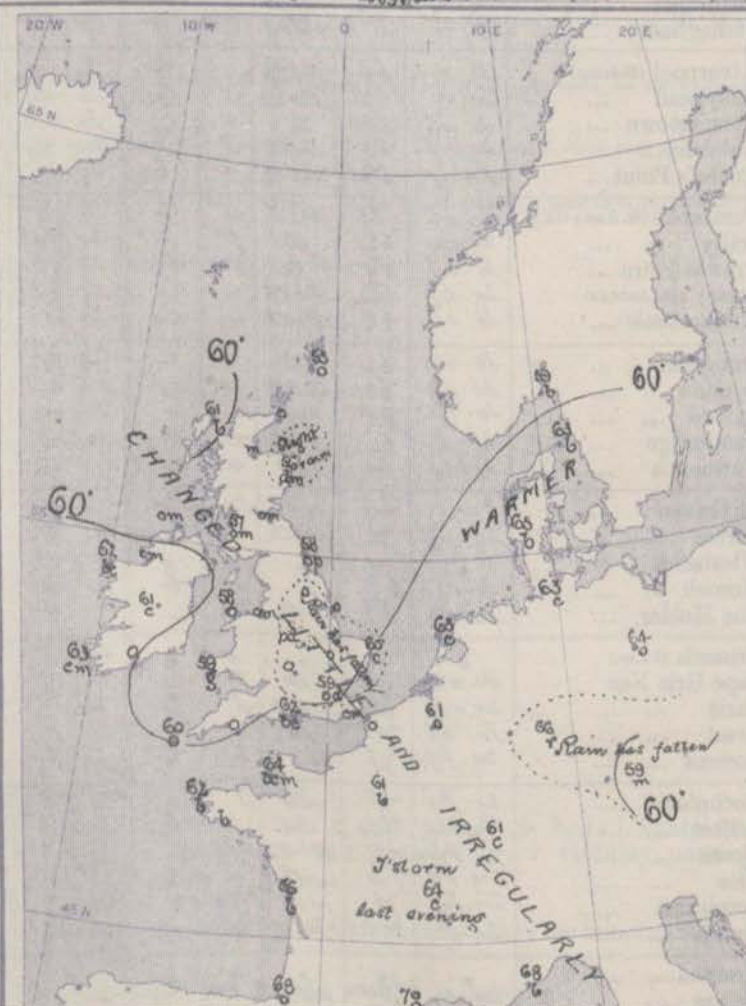
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of August.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Dry, at 8 a.m.	Wet.	
Sumburgh Head	57.9	48.5	53.8	52.0	3.21
Stornoway	58.5	49.0	55.2	53.3	3.57
Wick	61.1	48.5	55.2	53.2	2.35
Nairn	63.4	50.2	55.6	52.7	2.81
Aberdeen	63.1	50.2	55.7	53.5	3.13
Leith	65.8	51.4	57.6	54.6	2.62
Shields	63.5	52.3	57.5	54.9	2.81
York	68.1	51.4	58.0	55.3	2.47
Loughborough	70.5	52.1	59.9	57.4	2.61
Ardrossan	64.0	53.1	57.3	54.9	4.08
Donaghadee	61.8	52.0	57.0	55.5	2.99
Holyhead	64.3	55.0	58.5	56.4	2.89
Liverpool	65.7	54.3	58.7	55.5	2.70
Parsonstown	66.2	51.7	57.8	54.7	3.48
Valencia	65.0	54.1	59.4	57.0	4.65
Roche's Point	66.6	53.9	59.0	56.4	3.59
Pembroke	63.7	55.8	58.9	56.6	2.91
Sally	64.9	57.2	61.1	59.1	2.45
Jersey	69.0	57.4	63.1	60.0	2.28
Hurst Castle	68.1	56.1	61.2	59.1	2.31
Dover	67.1	57.2	62.0	59.0	2.05
LONDON	71.8	53.7	61.4	57.8	2.20
Oxford	69.2	53.4	59.2	56.4	2.33
Cambridge	71.3	52.1	60.2	57.3	2.25
Yarmouth	66.4	53.1	60.8	57.9	2.17

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 northern part of the North Sea and the east of Scotland. The Scandinavian report has not yet arrived. 11.15 am.
Lowest, 29.9 in: and less, in a shallow depression lying over the Bay of Biscay, the west of France, and the north of Spain.

TEMPERATURE

Gradient slight. Barometer falling a little over the United Kingdom, the Netherlands, and the west and north of France but rising elsewhere.

Highest, 70° at Perpignan, 68° at Nice and Genoa, 66° at Marseilles and Rochefort, and 64° at Jersey, Berlin and Lyons.

Lowest, 53° at Edinburgh, 56° at Aberdeen and Leith, and 57° at New York, Anderson and Oxford.

The highest maxima registered over our Islands yesterday were 75° at Mull, and 74° at Portpatrick and Kildare.

WIND

E or NE over nearly the whole of Western Europe, light or moderate in force generally, but fresh on some parts of our south and south-west coast.
Calm in the extreme north of Scotland and also at some of the German stations.

WEATHER

Cloudy or overcast in most parts of the United Kingdom and also over the Netherlands and Germany, with mist in many places, and drizzling rain at some of our eastern and central stations.
Fine over Denmark and the greater part of France.

SEA

Moderate on our south and south-west coast, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The distribution of pressure is becoming less regular than of late. In addition to the large depression over the Bay of Biscay, some shallow secondary disturbances are apparently lying over Belgium and the northeast of France; and, as these are likely to move westwards, cloudy weather will probably continue in many parts of our Islands, with slight rain in places.

FORECASTS

For the 24 hours ending at NOON on 10TH AUGUST 1890.

DISTRICTS.

FORECASTS.

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

E^{ly} winds, light; drizzle, slight rain locally

Same as No 5

E^{ly} and NE^{ly} winds, moderate or fresh; cloudy, slight rain at times.

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.

E^{ly} winds, fresh or strong; drizzle, rain locally.

E^{ly} winds, moderate or fresh; fair to drizzle and some rain.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA	SEA		BAR:	THER:		WIND		WEA	SEA
		D	W.	D	F					D	W.	D	F		
Skudesnaes ...	30.20	56	55	E	1	0	0	Holyhead ...	30.14	65	62	NNW	1	bcm	1
Lumburgh Head ...	30.17	65	59	2	0	bc	2	Valencia ...	30.00	72	66	E	3	bcm	3
Stornoway ...	30.22	66	54	SE	2	b	2	Scilly ...	30.01	63	61	E	5	b	1
Aberdeen ...	30.23	62	54	E	2	bc	2	Jersey ...	30.01	67	60	ENE	5	b	4
Orkney ...	30.16	71	65	SW	1	bcm	1	Dungeness ...	30.06	63	58	NE	5	cg	3
Malin Head ...	30.12	62	59	ENE	3	b	1	London ...	30.11	64	56	ENE	3	o	*
Mullaghmore ...	30.05	67	63	ENE	4	cm	3	Yarmouth ...	30.15	62	59	NE	4	c	3
Belmullet ...	30.07	74	63	SW	1	b	*	Rocheport ...	29.92	63	74	NE	4	o	?

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

Weather still fine over the greater part of Europe, but hazy at several of the British Irish stations, and foggy at Lumburgh Head. Dull over Austria, Eastern Germany and the Baltic Provinces, with rain at Memel. Slight rain falling later in the east and southeast of England and also in some parts of Germany.

Temperature highest, 81° at Brindisi, 80° at Barcelona and Cadix, 78° at Constantinople, and 76° at Palermo and Malta; above 70° in most parts of Southern and Eastern Europe. Lowest 51° at Lumburgh Head, 52° at Archangel, 53° at Rode and Christiansund, 55° at Naum, and 56° at Helsingborg, Kuopio and Stornoway. Daily maxima over Great Britain mostly below 70°, but thermometer reaching 74° at Karronston and Valencia, and 73° at Belmullet.

Wind E² or NE² over England, Ireland, and France, light or moderate in force generally, but fresh at some of the Channel stations; S² or SE² in Scotland and the west of Norway. Light from the N² over Sweden, Finland, the Baltic, Central Europe and Italy; variable in Spain and Algeria. No important change occurring during day.

Barometer highest, 30.2 ins: and upwards over Scotland, the northeast of England, and the adjacent parts of the North Sea, and also in a smaller system over the west of Norway, 30.1 ins: and upwards, in a large anticyclone lying over Scandinavia, the North Sea, and greater part of the United Kingdom. Lowest 29.8 ins: and less, in a depression lying over the south of Austria; 29.9 ins: and less in a shallow elongated system extending from the Portuguese coast to Corsica, Sardinia, and the adjacent parts of the Mediterranean. Low pressure area subsequently spreading northwards over France and the Bay of Biscay.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Sunday 10th AUGUST 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 3 rd P. and Sea Level.	TEMP. Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 12.)	SHADE TEMP.			
			Direc.	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.	Direc.	Force. (0 to 12.)			Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.	Haparanda ...	30.16	57	SW	2	b	30.21	+ .06	62	57	+ 5	SW	2	b	*	68	43	—
	Hernösand ...	30.23	56	Z	0	b	30.24	+ .00	58	54	0	SSW	2	b	*	72	43	—
	Stockholm ...	30.19	59	NNE	2	b	30.19	+ .02	61	55	0	NNE	2	bc	*	68	46	—
	Wisby ...	30.12	58	NE	4	b	30.13	+ .01	59	55	+ 1	NNE	4	bc	*	64	55	—
	Bodö ...	30.24	53	WSW	1	b	30.26	+ .01	57	53	+ 4	Z	0	b	1	7	50	—
	Christiansund ...	30.25	57	NNE	1	b	30.22	— .04	57	54	+ 3	SE	1	b	2	61	48	—
	Skudesnaes ...	30.21	58	NW	1	b	30.19	— .02	60	58	—	N	2	c	2	70	54	—
	Christiania Fjord (Færder) ...	30.19	68	SSE	2	b	30.20	— .03	63	55	+ 4	N	2	b	1	68	63	—
	Skagen (The Seaw) ...	30.17	61	Z	0	b	30.15	— .02	63	59	0	E	1	b	1	70	59	—
	Fanö ...	30.16	57	NNE	4	c	30.13	— .01	63	61	— 2	NNE	1	b	*	70	54	—
BRITISH ISLANDS.	Sumburgh Head ...	30.24	54	S	1	o	30.20	— .04	50	50	— 3	ENE	2	f	2	55	48	—
	Stornoway ...	30.09	64	E	2	b	30.03	— .12	60	58	— 1	SE	3	f	3	68	32	—
	Wick ...	30.14	58	SE	4	o	30.10	— .14	59	58	+ 2	SE	4	b	1	63	30	—
	Nairn ...	30.12	66	E	2	b	30.07	— .12	63	60	+ 4	E	1	bc	1	64	53	—
	Aberdeen ...	30.20	56	ENE	2	o	30.11	— .13	59	57	+ 3	E	2	bc	3	62	55	0.09
	Leith ...	30.12	57	E	2	o	30.02	— .18	60	58	+ 4	E	2	bc	*	61	56	—
	Shields ...	30.11	61	NE	2	o	29.98	— .19	60	60	+ 4	ENE	2	bc	3	64	56	—
	Spurn Head ...	30.04	60	NE	3	o	29.86	— .24	62	60	+ 3	ENE	6	o	4	62	58	—
	York ...	30.06	63	E	3	o	29.90	— .25	65	61	+ 8	E	2	c	*	66	55	—
	Loughborough ...	30.02	61	ENE	2	o	29.83	— .27	63	62	+ 5	E	3	cg	*	64	57	—
GERMANY & HOLLAND.	Ardrossan ...	30.08	60	E	3	c	29.94	— .23	63	60	+ 6	ENE	3	cm	2	66	56	—
	Malin Head ...	30.06	59	E	3	bc	29.90	— .22	58	56	— 1	E	5	ogm	2	61	56	—
	Mullaghmore ...	30.00	61	E	5	o	29.83	— .27	59	57	— 1	E	5	ogm	2	63	57	—
	Belmullet ...	29.97	63	E	3	c	29.80	— .26	62	58	0	E	3	b	*	67	55	—
	Donaghadee ...	30.03	60	SSE	2	b	29.88	— .33	59	57	— 1	ESE	5	m	3	61	56	—
	Liverpool (Bidston) ...	30.00	61	E	3	o	29.80	— .31	62	59	+ 4	E	5	o	4	63	58	—
	Holyhead ...	29.99	61	E	5	o	29.78	— .31	61	59	+ 3	E	5	ogm	5	64	58	—
	Parsonstown ...	29.95	62	Z	0	c	29.76	— .30	58	57	— 3	Z	0	o	*	65	54	0.06
	Valencia ...	29.88	65	ENE	5	c	29.76	— .20	60	59	— 3	NNE	2	rmg	2	68	59	0.13
	Roche's Point ...	29.89	62	ESE	5	bc	29.68	— .21	60	60	0	ESE	4	or	4	64	55	0.25
FRANCE AND BELGIUM.	Pembroke (St. Ann's Id.) ...	29.88	65	ESE	4	b	29.71	— .29	61	61	+ 2	ESE	3	rm	3	66	58	0.30
	Scilly ...	29.80	62	ESE	5	r	29.65	— .25	62	62	+ 2	SSE	5	r	1	65	56	0.40
	Prawle Point ...	29.85	62	E	6	o	29.72	— .24	62	61	+ 4	S	3	m	2	64	56	1.85
	Jersey (St. Aubin's Id.) ...	29.84	68	E	3	o	29.77	— .16	66	63	+ 2	SSW	3	ogm	3	73	62	0.21
	Hurst Castle ...	29.91	66	ENE	4	b	29.73	— .27	65	64	+ 3	SE	5	c	3	68	62	0.54
	Dungeness ...	29.91	66	ENE	5	b	29.77	— .21	63	62	0	WNW	3	blr	2	68	62	0.14
	London ...	30.01	66	ESE	4	c	29.79	— .25	65	64	+ 6	E	2	r	*	68	59	0.24
	Oxford ...	29.96	62	NE	2	o	29.76	— .28	61	61	+ 5	E	1	r	*	64	57	0.08
	Cambridge ...	29.99	64	NE	1	c	29.82	— .24	64	63	+ 5	E	1	r	*	67	56	0.03
	Yarmouth ...	30.00	63	ENE	4	b	29.88	— .18	63	61	+ 3	ENE	5	c	4	64	59	—
PENIN- SULA.	Cuxhaven ...	30.12	61	E	3	b	30.12	+ .04	61	59	— 2	E	4	b	*	64	60	—
	Berlin ...	30.08	68	NNE	4	b	30.08	+ .05	64	59	0	NNE	4	bc	*	75	59	—
	Wiesbaden ...	*	*	*	*	*	29.97	— .03	67	63	+ 1	NE	2	bc	*	71	59	0.20
	Munich ...	30.05	62	E	3	b	30.06	+ .03	64	61	+ 5	E	2	b	*	73	54	—
	The Helder ...	30.02	66	ENE	2	b	29.96	— .09	63	60	0	E	2	b	3	70	63	—
	Brussels (9 a.m.) ...	*	*	*	*	*	29.75	— .23	64	64	+ 1	NNE	4	r	4	7	61	0.51
	Cape Gris Nez ...	29.92	65	E	4	b	29.81	— .13	71	66	+ 10	SSE	2	bc	*	83	61	—
	Paris ...	29.86	77	ENE	2	o	29.69	— .15	62	58	0	SSE	4	o	3	79	54	0.20
	Brest ...	29.78	68	Z	0	o	29.80	— .05	64	63	+ 2	SW	3	c	3	79	61	0.08
	Lorient ...	29.79	68	S	1	m	29.80	— .05	64	63	+ 2	SW	3	c	3	79	61	0.08
FRANCE AND BELGIUM.	Rochefort ...	29.89	70	WSW	3	c	29.89	+ .01	68	66	+ 2	NW	4	o	2	78	52	—
	Belfort ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	—
	Lyons ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	—
	Nice ...	29.96	70	SW	4	b	30.00	+ .05	67	64	— 1	ENE	4	c	0	81	61	—
	Perpignan ...	29.88	73	NE	3	o	29.96	+ .07	73	70	+ 3	NE	2	o	*	80	68	—
	Biarritz ...	29.77	85	ESE	4	b	29.86	— .00	75	66	+ 7	WSW	3	b	1	88	68	—
	Corunna ...	*	*	*	*	*	29.88	+ .09	70	64	+ 6	S	4	b	3	70	61	0.43
	Lisbon ...	29.95	66	SSW	4	o	30.03	+ .11	66	63	0	SW	3	o	5	70	64	—
	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	—
	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	—

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

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

WEATHER CHARTS

for 8 a.m. on

Sunday 10th August

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:

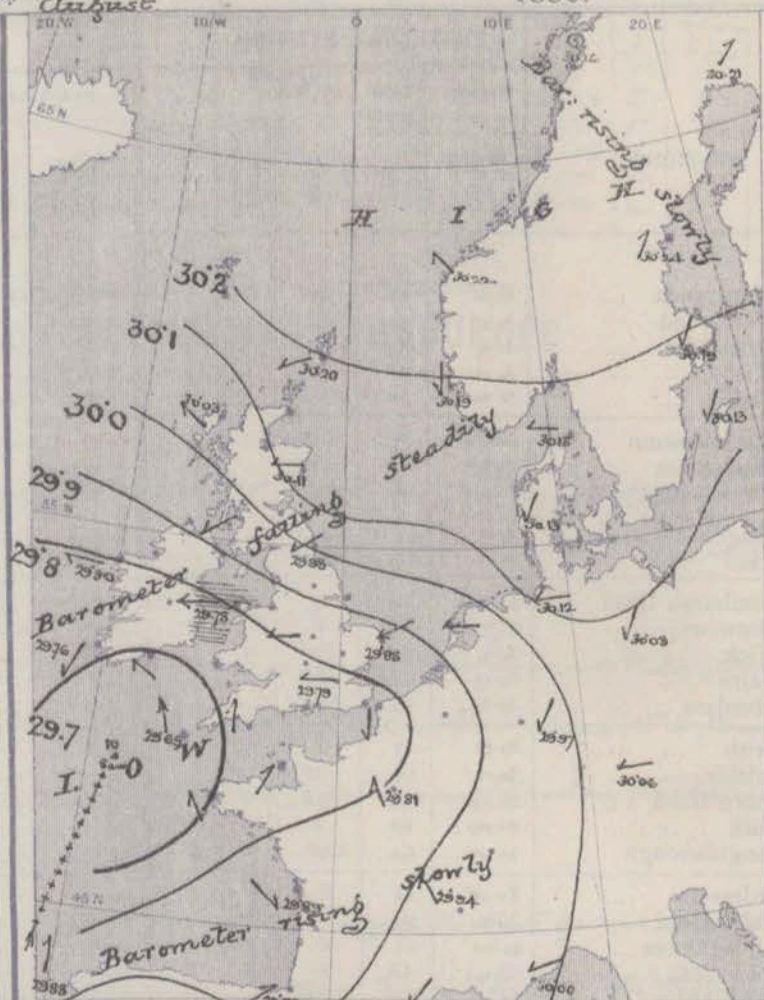
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumbargh Head	29.793
Stornoway	29.802
Wick	29.813
Nairn	29.827
Aberdeen	29.835
Leith	29.852
Shields	29.875
York	29.907
Loughborough	29.925
Ardrossan	29.860
Donaghadee	29.877
Holyhead	29.904
Liverpool	29.903
Parsonstown	29.919
Valencia	29.922
Roche's Point	29.922
Pembroke	29.921
Sailly	29.958
Jersey	29.976
Hurst Castle	29.960
Dover	29.950
LONDON	29.952
Oxford	29.943
Cambridge	29.944
Yarmouth	29.929



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.2 in. and upwards, in an anticyclone lying over and to the eastward of Scandinavia; 30.0 in. and upwards in the south of Portugal.
 Lowest, 29.7 in. and less, in a depression lying over our extreme south-east coast.
 Gradients moderate over the northern parts of the United Kingdom, slight elsewhere.
 Barometer rising a little in Sweden, Germany, and the south of France, but falling elsewhere — most on our western coasts.

TEMPERATURE

Highest, 75° at Birmmth, 73° at Perpignan, 71° at Paris, 70° at Bourne, and 68° at Rochefort and Lyons.
 Lowest, 50° at Lumburg, 48° at Bodo and Quistina, and 55° at Humber and Dartmouth.
 The daily maxima registered over our Islands yesterday were mostly below 70°, but in the central and southern parts of France the thermometer exceeded 80°.

WIND

Light to fresh from the East over the greater part of the United Kingdom, but S³ or SE³ in the south of England and the north of France. SW³ or W³ over the Bay of Biscay; NE³ or N³ over Denmark, Germany, and the south of Scandinavia.

WEATHER

Bell and unsettled in nearly all parts of Ireland and England, with rain in many places and a thunderstorm at Birmingham.
 Fine at our northern and most of the Continental stations, but foggy at Lumburg Ht.
 During last night or this morning thunderstorms with heavy rain occurred over the Channel and south of England, the largest amount measured being 1.9 in. at Bude, and 0.5 in. at Hunt Castle and Jersey.

SEA

Moderate to smooth generally, but rather rough at Holyhead and Lumb.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 11th AUGUST 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			SEA		BAR:	D.	W.	THER:		WIND			SEA
		D.	W.	D.	F.	WEA.						D.	W.	D.	F.	WEA.	
Skudesnaes ...	30.24	62	59	NW	4	b	2		Holyhead ...	30.04	62	57	E	5	b	4	
Sumburgh Head ...	30.24	55	53	S	1	o	2		Valencia ...	29.89	66	60	E	6	cm	5	
Stornoway ...	30.44	67	62	Z	0	b	0		Seilly ...	29.83	65	65	E	6	o	2	
Aberdeen ...	30.22	58	54	E	2	c	3		Jersey ...	29.88	72	66	E	5	bm	4	
Shields ...	30.44	63	59	NE	2	c	3		Dungeness ...	29.95	68	63	ENE	5	b	3	
Ardrossan ...	30.17	66	60	E	3	c	2		London ...	30.00	65	60	ENE	2	o	*	
Malin Head ...	30.09	60	57	E	4	b	2		Yarmouth ...	30.05	63	61	ENE	4	b	4	
Mullaghmore ...	30.05	62	57	E	5	om	3		Rochefort ...	29.89	78	78	SW	3	b	2	
Belmullet ...	30.04	64	58	SE	5	o	*										

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

Weather cloudy and misty in most parts of the United Kingdom, with drizzling rain at some of our eastern and central stations. Pull also over the Netherlands, Germany, and the west and north of Spain, but fine in most of the northern, eastern and southern countries of Europe. Sky clearing later in many parts of the United Kingdom and Germany, but thunderstorms with heavy rain occurring over the Channel and south of England at night.

Temperature highest 80° at Barcelona and Laballe, 79° at Brindisi and 78° at Constantinople and Tunis; above 70° in most parts of southern and eastern Europe. Lowest 49° at Archangel, 53° at Rangoon and Sumburgh H., 54° at Christiania and 55° at the Cape, and 56° at Aberdeen and Leith; below 60° in most parts of Great Britain. Daily maxima over our Islands mostly below 70° but thermometer rising above 80° in nearly all parts of southern and eastern Europe; above 90° in isolated places and above 100° in Central Algeria.

Wind E³ over our Islands and the west of France, fresh in force on our south and southwest coasts. Light from the NE² or NW² over Northern, Eastern, and a portion of Central Europe; variable in Italy, South Germany, and the east of France. S³ in Spain; SE³ or E³ in Algeria. Subsequently veering to the West over the Iberian Peninsula.

Barometer highest 30.2 ins. and upwards in a large anticyclone lying over Scandinavia, the east of Scotland, and the northern parts of the North Sea, and also in a smaller system lying over Ireland. Lowest, 29.8 ins. and less, in a depression off the northwest of Spain, and also in another system (very shallow) lying over the south of Russia. Spanish depression subsequently travelling steadily in a northerly direction towards the southwest 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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The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark the observations are taken at 8 p.m. (Christiania time).

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DAILY WEATHER REPORT.

for *Monday 11th August 1890.*

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

Issued by the Meteorological Office, 53, Victoria Street, London. N. 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 ...	30.20	65	2	0	bc	30.15	-0.05	63	57	+1	2	2	bc	.	66	41	—
	Hernösand ...	30.20	55	2	0	bc	30.15	-0.05	57	52	-1	12	2	bc	.	70	45	—
	Stockholm ...	30.15	57	N	2	0	30.01	-1.14	57	56	-4	NE	2	P	.	66	53	0.20
	Wisby ...	30.08	57	NNE	4	P	29.96	-1.12	57	54	-1	2	0	P	.	66	53	0.43
	Bodö ...	30.21	54	NE	2	bc	30.11	-1.10	57	54	+1	NE	1	bc	1	64	54	—
	Christiansund	30.12	62	NNE	1	bc	29.92	-2.20	59	57	+2	SE	1	bc	1	64	55	—
	Skudesnaes ...	30.09	61	NNW	4	bc	29.95	-2.14	64	57	+4	E	4	bc	2	72	58	—
	Christiania Fjord (Paerder)	30.10	64	WNW	2	bc	30.02	-1.08	61	55	-2	ENE	3	C	1	68	61	—
	Skagen (The Seaw)	30.05	63	NE	1	bc	29.96	-2.09	61	57	-2	E	1	C	2	72	59	—
	Fanö ...	29.97	58	NE	4	bc	29.81	-3.16	57	57	-6	NE	4	P	.	70	57	0.08
BRITISH ISLANDS.	Sumburgh Head	30.10	56	ENE	3	o	29.95	-2.15	54	53	+4	ENE	3	C	3	56	48	—
	Stornoway ...	29.87	65	SE	5	bc	29.84	-1.03	59	56	-1	SE	4	bc	4	68	52	—
	Wick ...	30.02	59	SE	4	bc	29.88	-2.14	59	55	0	E	3	bc	1	65	50	—
	Nairn ...	29.98	65	ENE	3	bc	29.84	-2.14	59	55	-4	E	1	bc	1	71	46	—
	Aberdeen ...	29.94	58	E	4	bc	29.81	-3.13	57	53	-2	ENE	6	C	7	63	55	—
	Leith ...	29.87	60	E	3	o	29.68	-3.19	57	56	-3	ENE	3	md	.	65	52	0.06
	Shields ...	29.82	59	ENE	4	P	29.62	-3.20	58	58	-4	SE	1	o	3	64	56	0.72
	Spurn Head ...	29.71	60	ENE	4	P	29.65	-2.06	61	61	+1	SEW	2	bc	3	63	58	0.70
	York ...	29.75	60	E	2	P	29.64	-2.11	60	60	-5	E	1	m	.	66	57	0.33
	Loughborough	29.71	66	SE	1	C	29.67	-1.04	62	60	0	WNW	1	C	.	68	57	0.43
BRITISH ISLANDS.	Ardrossan ...	29.77	64	ENE	4	om	29.70	-2.07	59	57	-4	NE	1	P	1	71	56	0.02
	Malin Head ...	29.84	62	ENE	4	om	29.73	-1.11	59	57	+1	NE	3	o	1	62	57	—
	Mullaghmore ...	29.70	61	ENE	5	om	29.72	-1.02	59	56	-2	NE	5	om	3	62	56	0.11
	Belmullet ...	29.97	63	E	3	C	29.74	-2.23	61	58	-1	ENE	2	C	.	67	58	—
	Donaghadee ...	29.69	60	ENE	4	P	29.69	-1.00	57	56	-2	NE	5	bc	3	62	55	0.21
	Liverpool (Bidston)	29.65	62	ESE	3	elo	29.65	-1.00	60	60	-2	W	3	o	3	64	59	1.73
	Holyhead ...	29.60	64	SE	2	om	29.67	-0.07	60	59	-1	2	o	omg	0	64	56	0.64
	Parsonstown ...	29.61	62	2	0	P	29.67	-0.06	59	58	+1	2	o	o	.	63	57	0.59
	Valencia ...	29.64	64	WNW	1	.	29.73	-0.09	62	61	+2	WNW	2	omg	2	68	60	0.30
	Roche's Point...	29.62	63	2	0	C	29.68	0.06	62	60	+2	WNW	3	bc	3	67	58	0.06
GERMANY & HOLLAND.	Pembroke (St. Ann's Hd.)	29.62	61	SE	3	C	29.70	-0.08	60	60	-1	SW	4	of	3	64	59	0.31
	Scilly ...	29.60	63	SW	4	of	29.78	+0.18	60	60	-2	W	4	P	2	65	55	0.17
	Prawle Point ...	29.71	60	8	6	C	29.78	+0.07	59	59	-3	SW	5	m	4	63	56	0.10
	Jersey (St. Aubin's)	29.75	69	SW	3	C	29.86	+0.11	63	61	-3	SW	4	C	3	74	61	0.16
	Hurst Castle ...	29.76	64	SW	4	omg	29.75	+0.01	62	61	-2	WNW	6	C	4	69	60	0.15
	Dungeness ...	29.78	66	WNW	4	C	29.78	-0.04	63	61	0	WNW	6	C	4	69	60	1.01
	London ...	29.74	69	SW	3	C	29.70	-0.04	64	61	-1	SW	2	o	.	73	59	0.31
	Oxford ...	29.73	62	SW	3	C	29.68	-0.05	62	60	0	W	1	C	.	70	58	0.25
	Cambridge ...	29.71	70	SW	1	bc	29.67	-0.04	62	61	-2	SW	1	o	.	71	58	0.47
	Yarmouth ...	29.74	66	8	3	bc	29.69	-0.05	62	61	0	SW	3	bc	3	76	59	0.16
GERMANY & HOLLAND.	Cuxhaven ...	29.98	61	E	6	C	29.81	-0.17	62	61	+1	SE	3	P	.	69	60	—
	Berlin ...	29.97	70	2	0	bc	29.82	-0.15	65	64	+1	SE	3	C	.	77	63	0.20
	Wiesbaden ...	30.01	67	SE	2	bc	29.91	-0.10	68	65	+1	SE	1	o	.	81	61	0.08
	Munich ...	30.01	67	SE	2	bc	30.12	+0.11	61	61	-3	SW	5	P	.	77	59	0.28
	The Helder ...	29.79	68	8	1	C	29.75	-0.04	64	63	+1	SW	1	C	1	72	63	0.20
	Brussels (9 a.m.)	29.82	64	SW	3	bc	29.78	-0.04	62	61	-2	WNW	3	bc	5	70	59	1.02
	Cape Gris Nez	29.87	76	WNW	2	bc	29.94	+0.07	64	61	-7	SW	3	o	.	79	66	—
	Paris ...	29.76	63	WNW	4	P	29.84	+0.08	62	61	0	WNW	3	o	4	77	54	0.39
	Brest ...	29.84	67	SW	5	C	29.93	+0.09	64	62	0	WNW	3	C	5	72	63	—
	Lorient ...	29.84	67	SW	5	C	29.93	+0.09	64	62	0	WNW	3	C	5	72	63	—
FRANCE AND BELGIUM.	Rocheport ...	30.02	73	W	4	bc	30.10	+0.08	68	65	0	WNW	4	C	7	82	61	—
	Belfort ...	29.93	68	W	1	C	29.93	0.00	66	54	0	W	1	bc	.	84	53	0.04
	Lyons ...	29.87	79	8	2	bc	30.07	+0.10	65	62	-3	NW	2	o	.	89	65	0.35
	Nice ...	29.97	72	WNW	5	bc	30.00	0.03	68	64	+1	E	2	bc	.	81	63	—
	Perpignan ...	29.95	75	E	3	bc	30.06	+0.11	75	65	+2	W	2	bc	.	80	65	—
	Biarritz ...	29.99	72	NNW	4	o	30.13	+0.14	70	66	-5	E	2	o	2	81	68	—
	Corunna ...	30.08	69	NW	2	bc	30.13	+0.05	65	61	-1	2	o	bc	7	73	61	—
	Lisbon ...	30.08	69	NW	2	bc	30.13	+0.05	65	61	-1	2	o	bc	7	73	61	—
	Corunna ...	30.08	69	NW	2	bc	30.13	+0.05	65	61	-1	2	o	bc	7	73	61	—
	Lisbon ...	30.08	69	NW	2	bc	30.13	+0.05	65	61	-1	2	o	bc	7	73	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, 11th August

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:

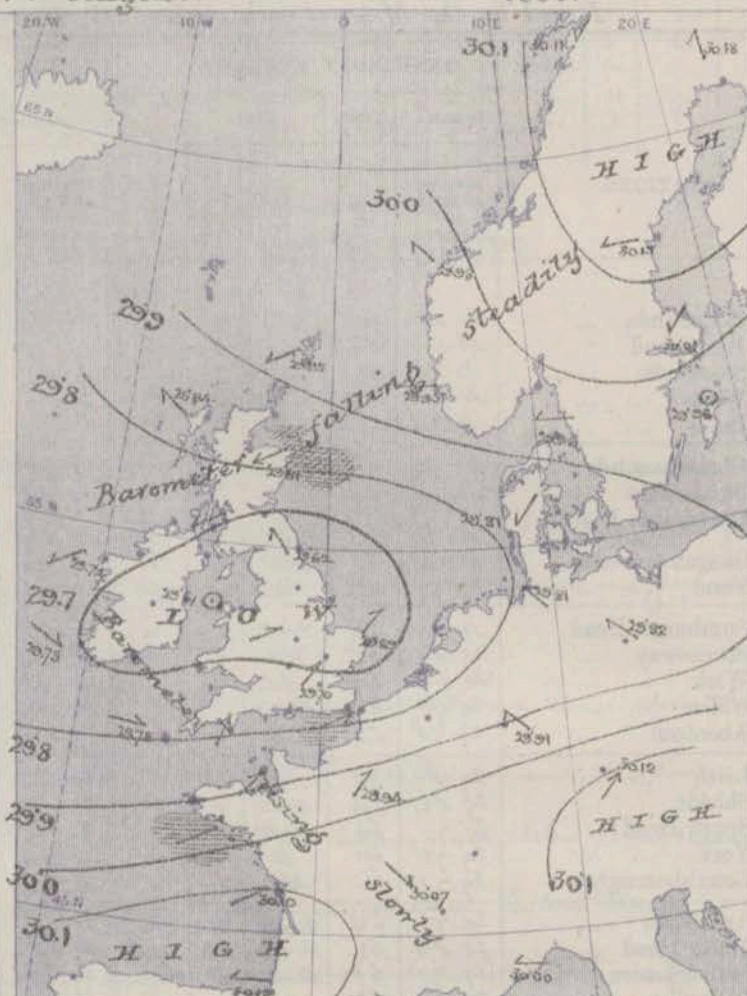
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.793
Stornoway	29.802
Wick	29.818
Nairn	29.827
Aberdeen	29.835
Leith	29.852
Shields	29.875
York	29.907
Loughborough	29.925
Ardrossan	29.860
Donaghadee	29.877
Holyhead	29.904
Liverpool	29.903
Parsonstown	29.910
Valencia	29.922
Roche's Point	29.922
Pembroke	29.921
Selly	29.958
Jersey	29.976
Hurst Castle	29.960
Dover	29.950
LONDON	29.952
Oxford	29.943
Cambridge	29.934
Yarmouth	29.929



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.

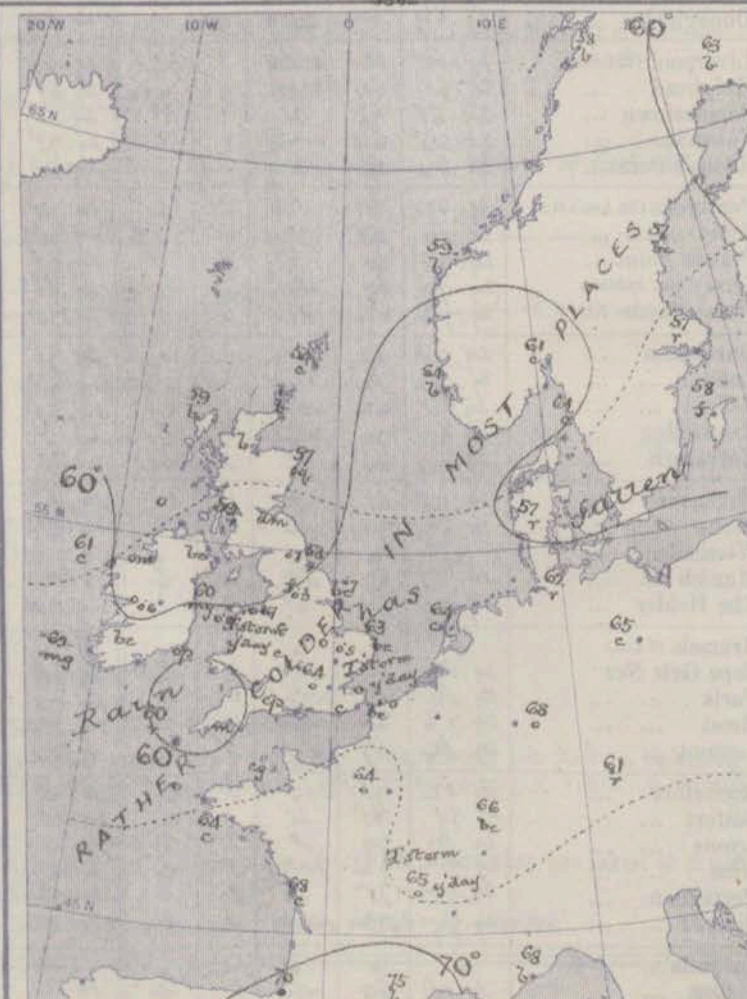
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of August.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	57.9	48.5	53.8	52.0	3.21
Stornoway.....	58.5	49.0	55.2	53.3	3.57
Wick.....	61.1	48.5	55.2	53.2	2.35
Nairn.....	63.4	50.2	55.6	52.7	2.81
Aberdeen.....	63.1	50.2	56.7	53.6	3.13
Leith.....	65.8	51.4	57.6	54.6	2.62
Shields.....	63.5	52.3	57.5	54.9	2.81
York.....	68.1	51.4	58.0	55.3	2.47
Loughborough.....	70.5	52.1	59.9	57.4	2.61
Ardrossan.....	64.0	53.1	57.3	54.9	4.08
Donaghadee.....	61.8	52.0	57.0	55.5	2.99
Holyhead.....	64.3	55.0	58.5	56.4	2.89
Liverpool.....	65.7	54.3	58.7	55.5	2.79
Parsonstown.....	66.2	51.7	57.6	55.7	3.48
Valencia.....	65.0	54.1	59.4	57.0	4.65
Roche's Point.....	66.6	53.9	59.0	56.4	3.59
Pembroke.....	63.7	55.8	58.9	56.6	2.91
Selly.....	64.0	57.2	61.1	59.1	2.45
Jersey.....	69.0	57.4	63.1	60.0	2.29
Hurst Castle.....	68.1	56.1	61.2	59.1	2.31
Dover.....	67.1	57.2	62.6	59.0	2.05
LONDON.....	71.8	53.7	61.4	57.8	2.20
Oxford.....	69.2	53.4	59.2	56.4	2.33
Cambridge.....	71.3	52.1	60.2	57.3	2.25
Yarmouth.....	66.4	55.1	60.8	57.9	2.17

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 north of Scandinavia, and also over Spain and the southwest of France.
Lowest, 29.7 in. and less, in a large depression covering nearly the whole of England and Ireland.

Gradient slight. Barometric rising in France and the west and south of our islands, but falling elsewhere.

TEMPERATURE

Highest, 75° at Perpignan, 70° at Biarritz, 68° at Wiesbaden, Nice and Rochefort, 66° at Brest, and 65° at Berlin.

Lowest, 54° at Sunbury Road, and 57° at Hunsund, Stockholm, San, Aberdeen, Leith, and Mullaghmore.

The highest maxima registered over our islands yesterday were 74° at Jersey, 73° in London, and 71° at Kinn, Ayr, and Carrbridge.

WIND

SW^{ly} over England, the south of Ireland and the north of France; strong in force at some of the Channel stations.

E^{ly} over Scandinavia, Denmark, and the north of our islands, as well as in the south of France; strong in force at Aberdeen.

SE^{ly} at most of the German stations.

This in the north of Scotland, and also over Scandinavia and the south of France.

WEATHER

Cloudy or overcast elsewhere, with showers in many places.

Thunderstorms occurred yesterday in many parts of England and France, and heavy rain fell locally, the highest amount being 1.9 in. at Liverpool, 1.0 in. at Dundee, and 0.9 in. at York.

SEA

High at Aberdeen and rather rough at Cape Gris Nez and Lorient, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Pressure is now high both to the northward and southward of the United Kingdom, and conditions are therefore favourable for the development of further depressions over our islands. Unsettled weather is therefore likely to continue generally, with rain in most districts, and local thunderstorms.

FORECASTS

For the 24 hours ending at NOON on 12th AUGUST 1890.

DISTRICTS.

FORECASTS.

0 SCOTLAND
NORTH

1 SCOTLAND
EAST

2 ENGLAND
N.E.

3 ENGLAND
EAST

4 MIDLAND
COUNTIES

5 ENGLAND
SOUTH

E^{ly} winds, moderate or fresh;
unsettled, some rain, thunder locally.

S^{ly} and SW^{ly} winds, light, changeable,
some showers, thunder locally.

SW^{ly} winds, fresh, changeable, some
showers, thunder locally.

DISTRICTS.

FORECASTS.

6 SCOTLAND
WEST

7 ENGLAND
N.W.

8 ENGLAND
S.W.

9 IRELAND
NORTH

10 IRELAND
SOUTH

Light Variable breezes, unsettled,
some rain, thunder locally.

Same as No 5

E^{ly} and NE^{ly} winds, moderate,
unsettled, some showers.

Light breezes, chiefly W^{ly}; changeable,
some showers.

WARNINGS

None issued.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND		WEA.	SEA.		BAR.	THER.		WIND		WEA.	SEA.
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	30.15	72	59	WNW	4	C	2		Holyhead ...	29.67	61	61	E	5	5
Sumburgh Head ...									Valencia ...						
Stornoway ...	29.54	68	63	NE	4	B	4		Scilly ...						
Aberdeen ...									Jersey ...	29.78	74	65	SW	3	3
Shields ...									Dungeness ...	29.78	67	65	SW	3	3
Ardrossan ...									London ...						*
Malin Head ...	29.81	61	58	E	4	0	2		Yarmouth ...						
Mullaghmore ...									Rochefort ...	29.98	81	70	NW	1	?
Belmullet ...	29.78	63	60	E	2	0	*								

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

Weather fine over the greater part of Europe, but dull and rainy over the southern half of the United Kingdom, with a thunderstorm at Dungeness, cloudy weather also reported at several of the French, German and Austrian stations. Thunderstorms with heavy rain occurring during day in many parts of England and France, the largest amounts being 1.7 in. at Liverpool, 1.0 in. at Dungeness and Cape Gris Nez, and 0.9 in. at York.

Temperature highest 81° at Brindisi and Tunis, 80° at Trieste and Bilbao, 79° at Barcelona, and 78° at Odessa, above 70° in many parts of southern and eastern Europe, and as high as 65° at York and in London. Lowest 50° at Sumburgh Head, 51° at Helsingfors, and 54° at Rost, Christiansund, Kioio, Hango, St. Petersburg and Moscow. Rising during day to between 70° and 75° in some of the northern and eastern parts of Great Britain, and to between 80° and 90° in France.

Wind light to fresh from the End over the greater part of the United Kingdom, but SE^{ly} or S^{ly} at most of the Channel stations, and also in the north of France. Light or moderate, the SW^{ly} in Spain and the west of France, NE^{ly} over Russia, the Baltic, Denmark and the south of Scandinavia, N^{ly} in Germany, Austria and Italy, variable in Algeria. Subsequently veering to the SW^{ly} in the south of England.

Barometer highest 30.2 ins. and upwards in an anticyclone lying over Scandinavia and northern Russia, 30.0 ins. and upwards over the south of Spain. Lowest 29.7 ins. and less in a depression lying over the extreme southwest coasts of our Islands, 29.8 ins. and less in a shallow system lying over the south of Russia. Depression in southwest subsequently moving northward, and barometer rising in France and the south of our Islands.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 3rd TO 9th AUGUST 1890.

The weather of last week was mostly fine and dry excepting in the extreme western and northern parts of the United Kingdom where showers were rather frequent during the earlier half of the period. Temperature was in excess of the average, especially over England, where some high readings were registered between the 4th and 6th.

At the commencement of the week an anticyclone extended from the Atlantic over the southwest of our Islands and the west of France, while a series of depressions skirted our extreme northwestern and northern coasts on their way to Scandinavia. Light NW^{ly} breezes and fine weather were therefore reported in the southern parts of the Kingdom, but moderate to fresh SW^{ly} breezes and showery weather in the west and north.

On the 4th and 5th the anticyclone spread eastwards across France and the south of our Islands to Germany and the wind on our south coasts therefore backed to W. or SW. with a continuance of fine weather and a decided increase of warmth.

During the remainder of the week the high pressure system moved slowly northward and fine weather therefore extended to our northern districts, while the wind gradually shifted to the End. On the 8th and 9th a shallow area of low pressure which advanced northward from Spain occasioned a considerable freshening of the E. wind in the southwest and south, with an increase of cloud in most districts and slight rain at some of the English stations, and at the close of the week the general appearance was becoming rather unsettled. Thunderstorms and heavy rain were experienced over the English Channel on the night of the 9th.

Temperature rose decidedly during the early part of the time so that by the 5th maximum readings exceeding 80° were registered over the inland parts of England. The shift of wind to the End, however, and the accompanying increase of cloud caused a considerable reduction in temperature.

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 12th August 1890.

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

Issue of 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 4.)	SHADE TEMP.		Amount of Rainfall.	
	Reading at 32° F. and Sea Level.	Dry.	Dirce.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirce.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ...	30.00	57	2	0	bc	29.90	-2.0	60	55	0	NNE	2	bc	.	70	40	-	
Hernösand ...	30.01	56	2SE	4	T	29.80	-2.7	60	50	+2	SE	4	0	.	66	40	0.16	
Stockholm ...	29.89	60	SE	2	bc	29.72	-2.9	59	50	+2	E	4	0	.	60	52	0.07	
Wisby ...	29.80	59	SW	2	0	29.69	-2.7	66	66	+1	0	4	0	.	66	53	0.39	
Bodö ...	29.95	60	2	0	bc	29.79	-3.2	63	57	+5	E	2	bc	1	70	54	-	
BRITISH ISLANDS.																		
Christiansund	29.86	53	WNW	4	bc	29.74	-2.4	55	50	-4	WN	4	bc	2	63	37	-	
Skudesnaes ...	29.84	56	ENE	2	T	29.71	-2.4	64	55	0	N	2	bc	2	64	35	-	
Christiania Fjord (Færdier)	29.85	64	ENE	3	C	29.60	-3.4	58	56	-3	NNE	6	0	2	64	57	0.00	
Skagen (The Scaw)	29.77	62	NE	1	T	29.60	-3.6	58	57	-3	NE	2	T	3	70	57	0.16	
Fanö ...	29.67	61	NE	2	C	29.62	-1.9	61	60	+4	2	0	C	.	64	57	0.67	
Sumburgh Head	29.80	56	ENE	3	bc	29.79	-1.6	52	52	-2	ENE	1	0	2	58	40	-	
Stornoway ...	29.78	63	NE	3	bc	29.71	-1.3	56	56	-3	SW	3	0	3	64	57	0.09	
Wick ...	29.85	60	E	2	bc	29.75	-1.3	59	58	0	E	1	0	1	64	47	-	
Nairn ...	29.70	60	ENE	2	bc	29.75	-0.9	56	55	-3	2	0	om	1	63	40	-	
Aberdeen ...	29.79	58	ENE	4	0	29.77	-0.4	57	56	0	E	1	C	5	61	56	0.07	
Leith ...	29.74	57	ENE	3	0	29.73	+0.5	57	56	0	ENE	1	0	.	58	56	0.13	
Shields ...	29.67	60	NNW	1	0	29.69	+0.7	58	50	0	NNW	2	d	3	64	56	0.02	
Spurn Head ...	29.67	64	WNW	2	cbcl	29.70	+0.5	60	59	-3	W	2	om	3	66	54	0.07	
York ...	29.67	66	W	2	C	29.71	+0.7	62	60	+2	W	1	C	.	72	50	0.10	
Loughborough	29.71	60	W	2	C	29.76	+0.9	60	59	-3	WNW	2	Cm	.	72	50	0.05	
Ardrossan ...	29.72	61	NE	3	0	29.76	+0.6	60	58	+1	W	3	0	2	64	56	0.00	
Malin Head ...	29.76	61	NNW	3	bc	29.81	+0.8	58	56	-1	NW	4	0	2	62	57	-	
Mullaghmore ...	29.82	62	NW	4	bc	29.89	+0.7	60	58	+2	NW	5	0	3	66	55	-	
Belmullet ...	29.86	63	NNW	1	bc	29.97	+1.3	55	54	-4	NW	5	0	.	64	57	-	
Donaghadee ...	29.72	57	NNE	4	T	29.81	+1.2	61	58	+4	NW	4	C	2	61	55	0.02	
Liverpool (Bidston)	29.72	61	WNW	2	C	29.77	+1.2	59	58	-1	WNW	3	0	3	64	58	0.01	
Holyhead ...	29.74	59	WNW	1	0	29.82	+1.5	62	55	+2	WNW	3	bc	2	65	56	0.02	
Parsonstown ...	29.70	65	N	1	0	29.92	+2.5	59	57	0	NW	1	bc	.	66	47	-	
Valencia ...	29.86	61	NW	1	bc	30.01	+2.0	61	59	-1	NNW	1	0	1	65	56	-	
Roche's Point...	29.80	62	NNW	4	C	29.93	+2.5	62	59	0	NNW	4	bc	3	65	55	-	
Pembroke (St. Ann's Hd.)	29.75	61	WNW	3	C	29.80	+1.8	58	57	-1	NW	4	bc	3	63	57	0.11	
Scilly ...	29.87	62	WNW	4	0	29.91	+1.3	62	60	+2	NW	3	C	2	64	55	0.02	
Prawle Point...	29.84	59	WNW	5	m	29.80	+1.0	61	60	0	W	4	0	2	61	57	0.02	
Jersey (St. Aubin's)	29.98	64	WNW	4	0	29.92	+0.6	62	60	0	W	4	om	3	66	60	-	
Hurst Castle ...	29.82	62	W	6	C	29.82	+0.7	62	62	0	W	4	mc	3	66	61	0.01	
Dungeness ...	29.77	63	W	6	C	29.79	+0.6	62	61	0	W	4	m	3	67	61	0.02	
London ...	29.75	67	WNW	4	0	29.70	+0.8	62	61	-1	WNW	1	0	.	72	60	0.07	
Oxford ...	29.70	63	WNW	3	0	29.79	+1.1	61	58	-1	W	1	0	.	72	61	0.03	
Cambridge ...	29.72	67	W	1	0	29.76	+0.9	62	61	0	WNW	1	0	.	71	57	0.03	
Yarmouth ...	29.69	65	WNW	1	cbcl	29.72	+0.4	62	61	-1	WNW	2	Cm	2	67	58	0.32	
Cuxhaven ...	29.76	63	WNW	3	T	29.60	-1.3	62	62	+1	W	4	bc	.	71	61	0.40	
Berlin ...	29.81	69	SW	2	C	29.80	-0.2	66	63	+1	SW	3	C	.	73	63	0.04	
Wiesbaden ...	29.90	65	SW	3	bc	29.90	-0.1	65	61	-3	SW	2	0	.	73	61	0.00	
Munich ...	30.06	65	SW	3	bc	30.06	-0.6	65	61	+4	SW	5	bc	.	75	55	0.16	
The Helder ...	29.70	63	WNW	3	C	29.72	-0.3	62	61	-1	WNW	2	f	3	60	61	0.47	
Brussels (9 a.m.)	29.93	61	SW	3	0	29.93	-0.1	61	59	+1	SW	3	0	.	61	55	0.24	
Cape Gris Nez	29.77	62	WNW	6	0	29.77	-0.1	62	62	+1	W	6	0	6	64	55	-	
Paris ...	29.93	60	W	2	0	29.95	+0.1	64	61	0	SW	2	0	.	75	55	0.12	
Brest ...	29.94	63	W	1	bc	29.93	+0.9	61	59	-1	NW	2	0	4	77	54	0.00	
Lorient ...	30.00	64	WNW	2	0	29.95	+0.2	65	64	+1	WNW	4	C	4	70	63	-	
Rochefort ...	30.14	70	WNW	5	0	30.09	-0.1	71	66	+3	WNW	3	bc	?	75	63	-	
Belfort ...	29.94	66	W	1	C	29.94	+0.1	62	53	-4	W	1	C	.	74	54	-	
Lyons ...	30.04	75	NNW	1	bc	30.04	-0.3	68	63	+3	N	1	bc	.	81	55	-	
Nice ...	29.93	74	SW	3	bc	29.91	-0.9	69	65	+1	ENE	4	bc	0	81	63	-	
Perpignan ...	30.03	73	NW	2	bc	30.02	-0.4	72	64	-3	WNW	1	bc	.	80	61	-	
Biarritz ...	30.00	74	ENE	3	bc	30.02	-1.0	60	65	-2	2	0	bc	2	81	64	-	
Corunna ...	30.00	74	N	5	bc	30.12	-0.1	65	62	0	NNW	3	0	?	82	63	-	
Lisbon ...	30.00	74	N	5	bc	30.12	-0.1	65	62	0	NNW	3	0	?	82	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 *Tuesday, 12th August, 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:

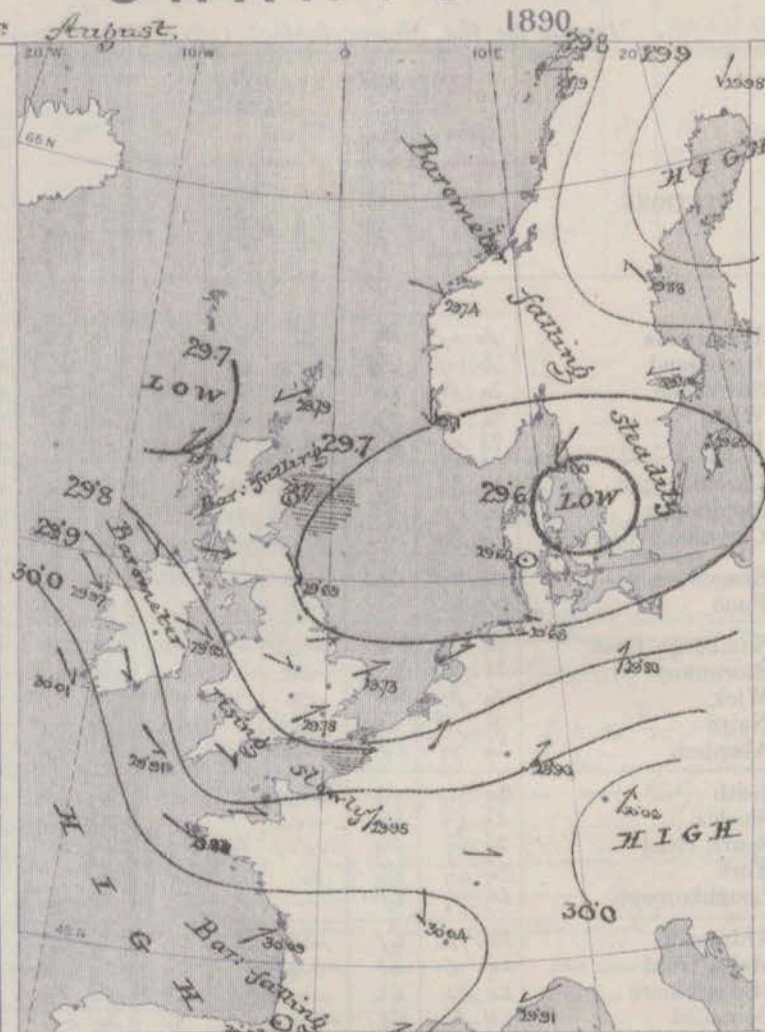
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumbargh Head	29.793
Stornoway	29.802
Wick	29.813
Nairn	29.827
Aberdeen	29.835
Leith	29.852
Shields	29.875
York	29.907
Loughborough	29.925
Ardrossan	29.860
Donaghadee	29.877
Holyhead	29.904
Liverpool	29.903
Parsonstown	29.919
Valencia	29.922
Roche's Point	29.922
Pembroke	29.921
Selly	29.958
Jersey	29.976
Hurst Castle	29.960
Dover	29.950
LONDON	29.952
Oxford	29.943
Cambridge	29.934
Yarmouth	29.929



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.

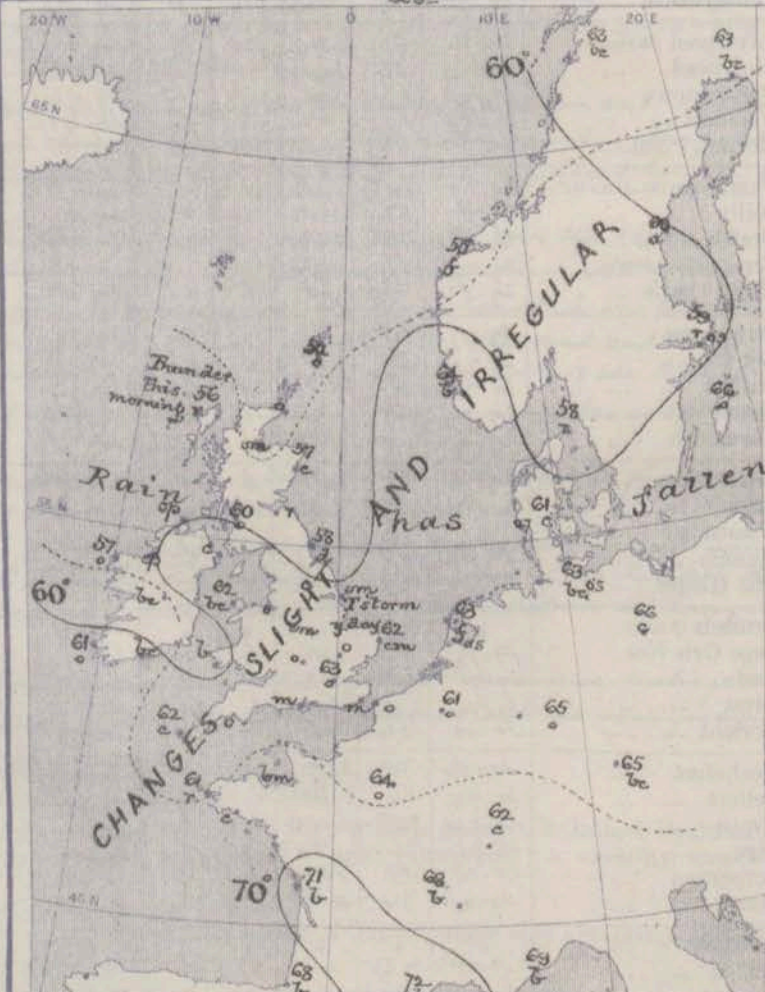
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of August.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	57.9	48.5	53.8	52.0	3.21
Stornoway.....	55.5	49.0	55.2	53.3	3.57
Wick.....	61.1	48.5	55.2	53.2	2.35
Nairn.....	63.4	50.2	55.6	52.7	2.81
Aberdeen.....	63.1	50.2	56.7	53.6	3.13
Leith.....	65.8	51.4	57.6	54.6	2.62
Shields.....	63.5	52.3	57.5	54.9	2.81
York.....	68.1	51.4	58.0	55.3	2.47
Loughborough.....	70.5	52.1	59.9	57.4	2.61
Ardrossan.....	64.0	53.1	57.3	54.9	4.08
Donaghadee.....	61.8	52.0	57.0	55.5	2.99
Holyhead.....	64.3	55.0	58.5	56.4	2.89
Liverpool.....	65.7	54.3	58.7	55.5	2.79
Parsonstown.....	66.2	51.7	57.6	55.7	3.48
Valencia.....	65.0	51.1	59.4	57.0	4.65
Roche's Point.....	66.0	53.9	59.0	56.4	3.59
Pembroke.....	63.7	55.8	58.9	56.6	2.91
Selly.....	64.9	57.2	61.1	59.1	2.45
Jersey.....	69.0	57.4	63.1	60.0	2.26
Hurst Castle.....	68.1	56.1	61.2	59.1	2.31
Dover.....	67.1	57.2	62.6	59.0	2.03
LONDON.....	71.8	53.7	61.4	57.8	2.20
Oxford.....	69.2	53.4	59.2	56.4	2.33
Cambridge.....	71.3	52.1	60.2	57.3	2.25
Yarmouth.....	66.4	55.1	60.8	57.9	2.17

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, 30.12 in: at Lisbon; 30.0 in: and more, in an anticyclone lying over Spain, the Bay of Biscay and the coast of France; 29.9 in: and upwards, in the north of Scotland. Lowest, 29.6 in: and less, in a depression lying over the Atlantic; 29.7 in: and less, in another system lying off the southwest of Ireland. Gradient slight. Barometer rising at most of the English and Irish stations, but falling elsewhere.
TEMPERATURE	Highest, 72° at Perpignan, 71° at Rochefort, 69° at Nice, 68° at Birmmgham and 66° at Marseilles and Berlin. Lowest, 52° at Edinburgh, 51° at Christianmunde, 50° at Stormont and Vain, and 57° at Aberdeen and Leth. The highest maximum registered over our islands, was 72° at York, Loughborough, and in London.
WIND	Moderate from the N.W. on all our north-western coasts. Light from the W. over the eastern and central parts of England, and from the S.W. over the Netherlands, Germany, and the north of France. E or NE in the east of Scotland and the greater part of Scandinavia, variable in the south of France.
WEATHER	Dull in all the more northern, eastern, and central parts of Great Britain, as well as in the south of Scandinavia, with rain in many places. Fine in most other localities, but showery in the north of Ireland. Thunderstorms and heavy showers were experienced yesterday in many parts of the United Kingdom.
SEA	Rough at Cape Gris Nez and rather rough at Aberdeen, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The new depression which has appeared off the north of Scotland seems likely to move southwards or south-eastwards and will probably occasion showery unsettled weather in many parts of Great Britain.

FORECASTS

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

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	Light Variable breezes; dull, rain at times.	6 SCOTLAND WEST	W ² to NW ² winds, freshening; dull, some rain.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.	W ² winds, light; cloudy, some rain.	8 ENGLAND S.W.	NW ² winds, moderate or fresh; fair to showery.
3 ENGLAND EAST	W ² winds, moderate; fair to dull and some rain.	9 IRELAND NORTH	Same as Nos 6+7.
4 MIDLAND COUNTIES		10 IRELAND SOUTH	Same as No 8.
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.		
Shetland ...	29.84	74	56	ENE	1	0	2		Holyhead ...	29.72	65	63	WNW	1	0
South Head ...	29.91	56	57	ENE	1	0	1		Valencia ...	29.83	64	60	WNW	1	0
Stornoway ...	29.80	63	61	NE	1	0	1		Scilly ...	29.85	64	62	WNW	1	0
Aberdeen ...	29.80	59	56	ENE	1	0	7		Jersey ...	29.91	66	63	W	1	0
Shields ...	29.66	61	59	NNE	1	0	1		Dungeness ...	29.76	66	63	W	1	0
Ardrossan ...	29.69	64	61	NE	1	0	2		London ...	29.74	72	64	SW	1	0
Malla Head ...	29.77	62	58	N	1	0	1		Yarmouth ...	29.68	66	64	N	2	0
Mullaghmore ...	29.77	66	60	WNW	1	0	2		Rochefort ...	30.14	71	67	W	6	0
Beaumaris ...	29.83	63	58	N	2	0	*								

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

Weather dull and unsettled over the greater part of our Islands, France, Germany, Denmark, and the Baltic, with rain or passing showers in many places. Fine in most other countries, but dull at some of the Russian stations. Showers falling during day over nearly the whole of Western Europe, with thunderstorms in some parts of Great Britain.

Temperature 81° at Berlin, 80° at Lening, 78° at Constantinople and Malta, and 77° at Algiers; above 70° in most parts of Southern and Eastern Europe. Lowest 54° at Edinburgh, 55° at Moscow, and 57° at Ulsborg, Hernöand, Stockholm, Helsingfors, Fins, Aberdeen, Leth, and Mullaghmore. Daily maxima very little above 70° in any part of the United Kingdom, and below 65° at several of our western and northern stations, but thermometer exceeding 80° over the Central and southern parts of France.

Wind SW¹ over England, the south of Ireland, and the north of France; strong in force over the eastern part of the Channel. S¹ or SE¹ in Germany; E¹ or NE¹ over Russia, Scandinavia, Denmark, and the north of our Islands, as well as in the south of France, NW¹ in Italy; variable over Austria, Spain, and Algeria. Subsequently veering to the NW¹ on our western coasts.

Barometer highest 30.2 in: and upwards over Iceland and Central Russia; 30.1 in: and upwards, over Spain and the southwest of France and also over South Germany. Lowest, 29.7 in: and less, in a large but somewhat shallow depression covering the greater part of Ireland and England; 29.8 in: and less, in another disturbance lying over the Black Sea. Depression over our Islands subsequently moving slowly eastwards, and barometer rising on our western and southern 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 *Wednesday 13th August.* 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. 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.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
			Dirce.	Force. (0 to 12.)				Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirce.	Force. (0 to 12.)			Max.	Min.			
SCANDINAVIA.																			
Haparanda ...	† 29.83	50	2	0	C	29.76	-22	62	60	-1	E	2	0	•	72	48	—		
Hernösand ...	† 29.69	58	SE	4	P	29.76	?	61	60	+1	E	2	0	•	73	55	0.43		
Stockholm ...	† 29.67	61	SE	2	bc	29.60	-12	66	61	+7	S	2	0	•	70	50	0.04		
Wisby ...	† 29.66	64	S	2	C	29.64	-05	65	61	-1	SW	6	bc	•	72	55	—		
Bodö ...	† 29.73	63	E	1	C	29.63	-16	63	55	0	ENE	2	C	1	64	55	—		
Christiansund	29.67	55	W	4	f	29.63	-11	53	53	0	WNW	4	f	2	55	52	—		
Skudesnaes ...	29.65	59	NW	4	f	29.64	-07	58	54	-6	NNW	4	bc	3	66	54	—		
Christiania Fjord (Færd)	29.61	62	NNE	3	f	29.62	-06	60	56	+2	NNW	2	f	1	63	55	—		
Skagen (The Seaw)	29.58	60	N	1	0	29.61	+02	61	58	+3	NW	1	f	1	63	55	0.04		
Fanø ...	29.65	60	WNW	2	C	29.65	+03	62	60	+1	2	0	C	•	66	59	—		
Sumburgh Head	29.79	55	ENE	1	C	29.78	-01	52	50	0	N	1	0	1	55	49	—		
Stornoway ...	29.70	58	2	0	0	29.83	+12	59	55	+3	E	3	0	3	60	50	0.05		
Wick ...	29.77	55	NW	1	0	29.82	+05	55	53	-4	NNE	1	0	0	60	48	—		
Nairn ...	29.75	54	2	0	P	29.81	+06	53	52	-1	ENE	1	0	1	55	53	0.06		
Aberdeen ...	29.74	57	ENE	2	C	29.77	0.0	53	53	-2	NNE	3	C	4	64	54	0.05		
Leith ...	29.72	55	NE	1	P	29.74	+01	53	54	-2	ENE	1	P	•	55	54	1.64		
Shields ...	29.68	53	NNE	2	C	29.55	-10	53	52	-3	N	5	P	5	62	51	1.90		
Spurn Head ...	29.70	63	W	3	C	29.65	-05	58	55	-2	WNW	4	f	4	64	54	—		
York ...	29.65	65	W	3	bc	29.65	-06	56	54	-6	W	3	bc	•	67	52	0.06		
Loughborough	29.77	64	NNW	3	bc	29.74	-02	58	53	-2	NNW	3	f	•	67	50	0.01		
ARDROSSAN ISLANDS.																			
Ardrossan ...	29.73	58	WNW	3	0	29.76	0.0	59	56	-1	NW	2	C	1	65	53	0.01		
Malin Head ...	29.80	56	NW	6	ogp	29.81	0.0	57	56	-1	N	4	bc	3	59	54	0.10		
Mullaghmore ...	29.51	54	NW	6	ogp	29.89	0.0	55	54	-5	NW	6	C	5	60	52	0.16		
Balmullet ...	29.58	55	NNW	4	bc	29.56	-01	55	52	-2	NW	3	ogp	•	57	53	—		
Donaghadee ...	29.81	58	NNE	3	C	29.78	-03	57	56	-4	N	3	f	2	64	56	0.07		
Liverpool (Bidston)	29.78	55	WNW	4	C	29.71	-06	53	53	+4	WNW	3	0	4	63	53	0.02		
Holyhead ...	29.80	58	NW	4	C	29.75	-07	58	53	-4	NW	4	ogp	4	66	53	0.02		
Parsonstown ...	29.54	55	NW	2	bc	29.90	-02	53	52	-4	WNW	2	ogp	•	64	49	0.06		
Valencia ...	30.06	55	NNW	3	ogp	30.02	+01	55	52	-6	N	3	0	3	62	50	—		
Roche's Point...	29.56	60	NNW	5	f	29.51	-02	58	52	-4	NNW	5	f	4	65	50	—		
Pembroke (St. Ann's Hd.)	29.88	59	W	3	C	29.84	-04	54	54	-4	NW	4	ogp	4	63	53	0.02		
Scilly ...	29.55	63	WNW	3	bc	29.92	+01	59	53	-3	NW	4	C	2	64	54	—		
Prawle Point ...	29.89	62	W	3	bc	29.87	-01	56	52	-5	W	2	C	1	68	48	—		
Jersey (St. Aubin's)	29.50	64	W	4	bc	29.86	-06	60	56	-3	NW	3	ogp	3	66	55	—		
Hurst Castle ...	29.81	68	WNW	3	bc	29.81	-01	59	56	-4	NNW	2	ogp	1	74	55	—		
Dungeness ...	29.76	64	W	5	C	29.77	-02	59	56	-4	NW	3	C	2	65	53	0.06		
London ...	29.78	66	W	2	bc	29.78	0.0	58	53	-5	W	2	bc	•	68	53	—		
Oxford ...	29.75	62	W	2	f	29.78	-01	55	51	-4	W	2	f	•	68	50	0.01		
Cambridge ...	29.75	65	W	1	f	29.75	-01	55	53	-5	W	1	f	•	75	50	0.01		
Yarmouth ...	29.71	65	WNW	2	C	29.71	-02	58	53	-4	W	3	f	2	67	51	0.01		
GERMANY & HOLLAND.																			
Cuxhaven ...	29.71	63	W	3	0	29.69	+01	63	62	0	SW	1	f	•	67	62	0.12		
Berlin ...	29.78	67	W	3	f	29.76	-04	64	62	-2	SW	2	f	•	70	55	0.12		
Wiesbaden ...	29.88	65	W	2	0	29.82	-06	65	62	0	W	2	0	•	73	61	—		
Munich ...	29.88	62	2	0	C	29.90	-16	64	60	-1	SW	4	bc	•	73	55	0.12		
The Helder ...	29.71	63	WNW	1	C	29.69	-02	62	60	-1	WNW	1	C	2	68	61	—		
FRANCE AND BELGIUM.																			
Brussels (9 a.m.)	29.81	62	W	5	0	29.76	-05	58	55	-3	SW	5	0	•	63	55	0.04		
Cape Gris Nez.	29.85	70	WNW	2	f	29.76	-09	61	57	-2	W	1	W	1	66	55	—		
Paris ...	29.85	70	WNW	2	f	29.85	-10	58	55	-6	NNE	1	W	•	70	54	0.20		
Brest ...	29.93	65	NW	3	f	29.90	-03	59	56	-2	N	3	0	3	70	54	—		
Lorient ...	29.92	65	WNW	3	C	29.90	-05	59	56	-6	N	3	f	3	70	55	0.04		
Rochefort ...	30.02	71	W	3	C	29.91	-10	66	65	-5	W	3	C	•	77	53	—		
Belfort ...	29.88	67	W	1	P	29.84	-10	64	63	+2	W	1	0	•	77	54	0.16		
Lyons ...	29.92	75	ENE	2	bc	29.84	-20	67	62	-1	WNW	3	C	•	81	62	—		
Nice ...	29.83	72	SE	4	f	29.82	-09	70	67	+1	ENE	4	bc	0	81	63	—		
Perpignan ...	29.86	77	2	0	f	29.81	-21	68	67	-4	SW	1	bc	•	84	66	—		
Biarritz ...	29.77	69	NNE	3	f	29.88	-15	69	64	+1	NNE	3	0	2	79	63	—		
FINLAND.																			
Corunna ...	30.07	68	N	4	f	30.01	-11	66	62	+1	NNW	3	0	4	77	64	—		
Lisbon ...	30.07	68	N	4	f	30.01	-11	66	62	+1	NNW	3	0	4	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

WEDNESDAY, 13TH AUGUST,

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.

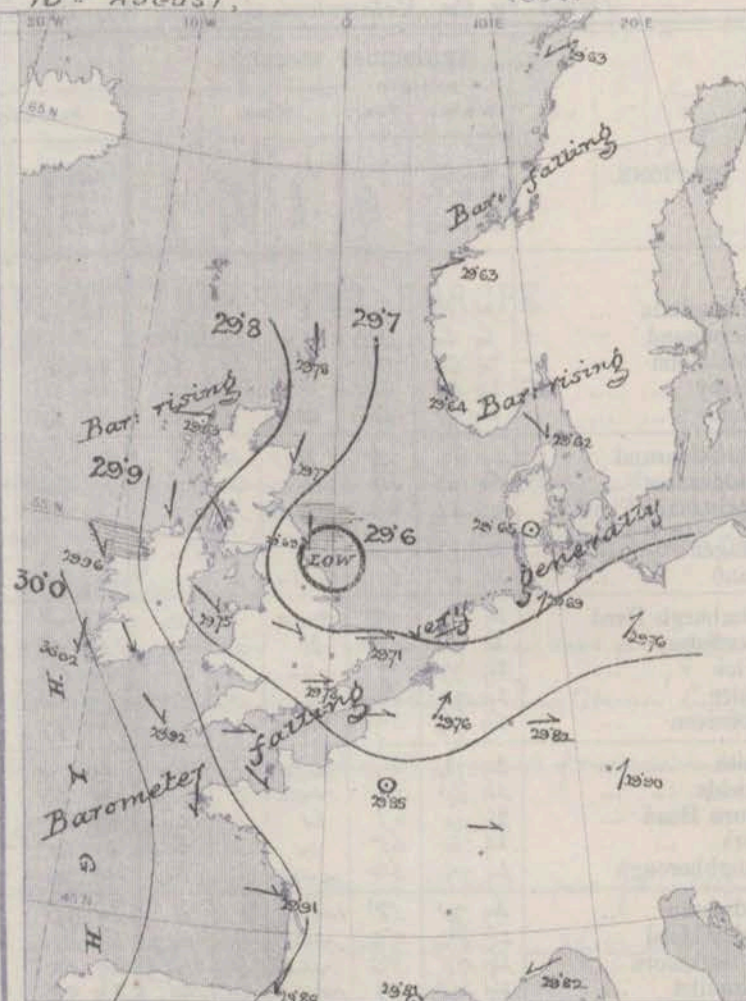
SEA DISTURBANCE—Where considerable, is shown thus:

■ = Rough. ■ = High.

MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.798
Stornoway	29.802
Wick	29.818
Nairn	29.827
Aberdeen	29.835
Leith	29.852
Shields	29.875
York	29.907
Loughborough	29.925
Ardrossan	29.860
Donaghadee	29.877
Holyhead	29.904
Liverpool	29.903
Parsonstown	29.919
Valencia	29.922
Roche's Point	29.922
Pembroke	29.921
Scilly	29.958
Jersey	29.976
Hurst Castle	29.960
Dover	29.950
LONDON	29.952
Oxford	29.943
Cambridge	29.934
Yarmouth	29.929



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.

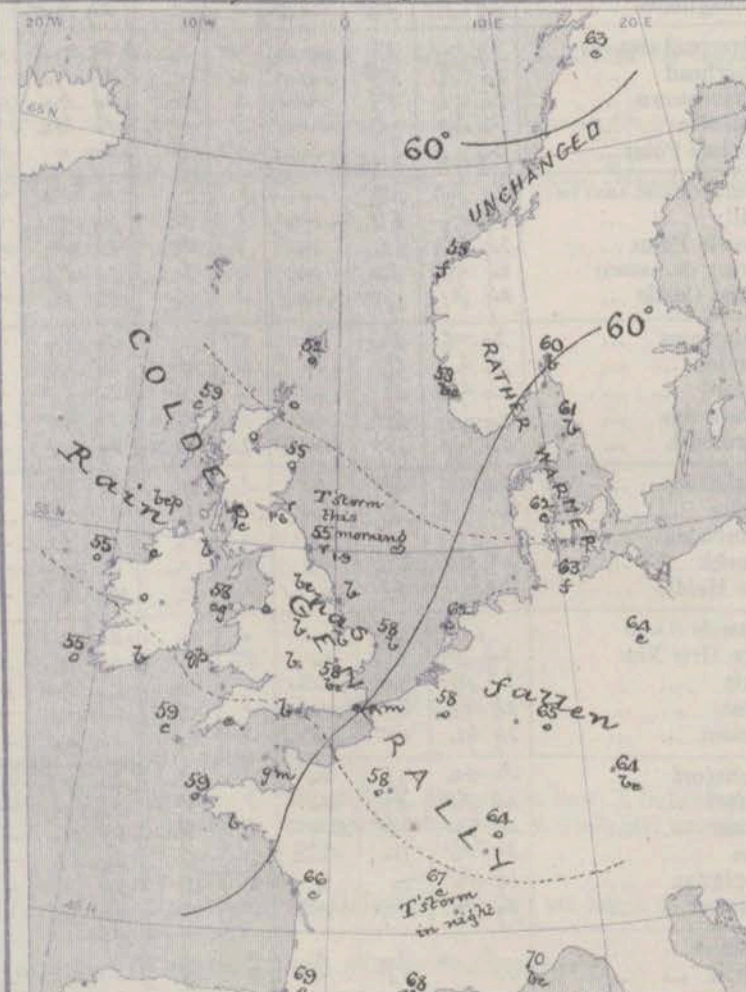
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of August.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	57.9	48.5	53.8	52.0	3.21
Stornoway.....	58.5	49.0	55.2	53.3	3.67
Wick.....	61.1	48.5	55.2	53.2	2.35
Nairn.....	63.4	50.2	55.6	52.7	2.81
Aberdeen.....	63.1	50.2	56.7	53.6	3.13
Leith.....	65.8	51.4	57.6	54.6	2.62
Shields.....	63.5	52.3	57.5	54.9	2.81
York.....	68.1	61.4	58.0	55.3	2.47
Loughborough.....	70.5	52.1	59.9	57.4	2.61
Ardrossan.....	64.0	53.1	57.3	54.9	4.08
Donaghadee.....	61.8	52.0	57.0	55.5	2.96
Holyhead.....	64.3	55.0	58.5	56.4	2.89
Liverpool.....	65.7	54.3	58.7	55.5	2.79
Parsonstown.....	66.2	51.7	57.6	55.7	3.48
Valencia.....	65.0	54.1	59.4	57.0	4.65
Roche's Point.....	66.6	53.9	59.0	56.4	3.59
Pembroke.....	63.7	55.8	58.9	56.6	2.91
Scilly.....	64.9	57.2	61.1	59.1	2.45
Jersey.....	69.0	67.4	63.1	60.0	2.26
Hurst Castle.....	68.1	59.1	61.2	59.1	2.31
Dover.....	67.1	57.2	62.6	59.0	2.06
LONDON.....	71.8	53.7	61.4	57.8	2.20
Oxford.....	69.2	53.4	59.2	56.4	2.33
Cambridge.....	71.3	52.1	60.2	57.3	3.25
Yarmouth.....	66.4	55.1	60.8	57.9	2.17

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. and upwards in an anticyclone extending from the Atlantic to the southwest of Ireland and the western parts of the Spanish Peninsula.

Lowest 29.6 ins. and less in a small depression lying off the northeast of England; 29.7 ins. and less over nearly the whole of the North Sea with Denmark and the south of Scandinavia.

Gradients slight. Barometer rising a little in the north of our islands, but falling elsewhere, - most in France.

TEMPERATURE

Highest 70° at Nice, 69° at Biarritz, 68° at Perpignan, 66° at Rochefort and Lisbon, and 65° at Wiesbaden.

Lowest 52° at Loughborough Head, 54° at Pembroke, and 55° at Wick, Kilm, Leith, Shields, Mullaghmore.

Belmullet, Valencia, Liverpool and Darlington.

The highest maxima registered over our islands yesterday were 68° at Prawle Point, Oxford and in London, and 67° at York, Loughborough and Harlow.

WIND

Moderate or fresh from the NW. in all the more western and southwestern parts of the United Kingdom, but light from the W. in the southeast.

Light from NE or E. in Scotland; variable in Denmark and also over central France.

SW. over Germany and the Netherlands; N. in the west of France.

WEATHER

Fine over the central and southeastern parts of England, and also in Denmark and the south of Scandinavia.

Cloudy elsewhere, with heavy rain in the northeast of Great Britain, passing showers on our western coasts, and a thunderstorm at Perpignan.

Since yesterday morning 1.4 inches of rain has fallen at Shields (where a thunderstorm has occurred) and 1.6 ins. at Leith.

SEA

Moderate to smooth generally, but rather rough at Shields and Mullaghmore.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The small depression off the northeast of England seems likely to move southeastwards or southwards, and unsettled rainy weather is therefore probable over our Midland and southeastern districts.

FORECASTS

For the 24 hours ending at NOON on 14TH AUGUST 1890.

DISTRICTS.

FORECASTS.

0 SCOTLAND

NORTH

1 SCOTLAND

EAST

2 ENGLAND

N.E.

3 ENGLAND

EAST

4 MIDLAND

COUNTIES

5 ENGLAND

SOUTH

NE² and E² winds, light; unsettled, some showers.

Same as N^o 5.

NW² to N² winds, moderate, unsettled, some rain, possibly thunder.

DISTRICTS.

FORECASTS.

6 SCOTLAND

WEST

7 ENGLAND

N.W.

8 ENGLAND

S.W.

9 IRELAND

NORTH

10 IRELAND

SOUTH

NW² winds, moderate or fresh, changeable, showery.

NW² to N² winds, fresh; fair generally, but local showers.

WARNINGS

None Issued

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.67	66	57	WNW	6	c	2		Holyhead ...	29.84	66	61	WNW	3	c
Sumburgh Head ...	29.78	56	54	ENE	1	c	1		Valencia ...	30.06	61	55	WNW	4	bc
Stornoway ...	29.72	58	58	2	0	p	2		Scilly ...	29.95	64	62	NW	3	bc
Aberdeen ...	29.75	60	57	E	1	c	4		Jersey ...	29.72	65	61	W	3	bc m
Shields ...	29.69	57	55	NNE	1	p	3		Dungeness ...	29.77	64	62	W	3	m
Ardrossan ...	29.74	65	63	WNW	3	0	2		London ...	29.78	68	62	WNW	3	0
Malin Head ...	29.82	56	53	WNW	6	0	4		Yarmouth ...	29.72	67	62	W	2	c
Mullaghmore ...	29.52	59	53	NW	6	bc	5		Rochefort ...	30.08	73	68	W	3	0
Belmullet ...	29.99	57	50	NW	4	0	*								

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

Weather dull in all the more northern, eastern and central parts of the United Kingdom, as well as over Finland and the south of Scandinavia, with rain in many places. Fine in nearly all other parts of Europe, but fog reported at Christiansund and the Helder. Showers falling during day over Great Britain, France, the Netherlands and heavy rain setting in at night over the north of England and the southeast of Scotland.

Temperature highest 84° at Barcelona, 81° at Brindisi, 79° at Toulon, and 78° at La Calle, Tunis and Malta; above 70° in nearly all parts of southern and eastern Europe. Lowest 52° at Sumburgh Head, 55° at Christiansund, 56° at Stornoway and Naiv, and 57° at Archangel, Aberdeen and Leith; below 60° over the greater part of our western and northern districts. Daily maxima below 70° in all parts of the United Kingdom, but thermometer exceeding 75° in France, and reaching 80° or more in the south of that country.

Wind moderate from the NWnd in the west and southwest of our Islands; light from the Wnd over the eastern and central parts of England; moderate or fresh from the SWnd over the Netherlands, Germany and the north of France; S³ over the Baltic, and SE³ in Finland and Sweden. Variable over southern Europe and also in Germany; S³ in Algeria; E³ in Scotland. No important change taking place during day.

Barometer highest 30.2 ins. and upwards over central Russia, 30.1 ins. and upwards in the south of Portugal. Lowest 29.6 ins. and less in a small depression over the Kattegat; 29.7 ins. and less in another system off the north of Scotland; 29.8 ins. and less in two further disturbances lying respectively over the Black Sea and in the neighbourhood of Malta. Very little change occurring 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 THURSDAY 14TH AUGUST. 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. Reading at 32° F. and Sea Level.	Temp. Dry.	Wind.		Weather.		Barometer.		Shade Temp.			Wind.		Weather.	Sea. (0 to 12.)	Shade Temp.		Amount of Rainfall.	
			Force. (0 to 12.)	Dir.			Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																			
Haparanda ...	29.60	56	NE	2	T		29.69	-0.07	60	59	-2	SEW	2	0	•	66	52	0.67	
Hernösand ...	29.62	61	2	0	0		29.74	•	66	53	+5	SEW	2	0	•	70	53	—	
Stockholm ...	29.71	62	SEW	2	0		29.77	+0.06	66	61	0	SEW	2	0	•	70	57	—	
Wisby ...	29.75	63	SEW	4	C		29.77	+0.02	64	61	-1	SEW	4	0	•	70	57	—	
Bodö ...	29.60	54	SEW	4	T		29.61	-0.02	57	53	-6	2	0	•	63	52	0.28		
Christiansund ...	29.66	56	W	3	C		29.67	+0.04	57	53	+2	SE	1	0	5	57	52	—	
Skudesnaes ...	29.64	56	N	5	C		29.61	-0.03	62	57	+4	SE	4	0	3	63	54	—	
Christiania Fjord (Frier) ...	29.64	62	SEW	4	C		29.70	+0.06	63	61	+3	SE	3	0	2	64	61	—	
Skagen (The Seaw) Fanö ...	29.66	64	SE	1	C		29.67	+0.05	62	60	+1	SE	0	0	0	75	61	—	
	29.71	58	2	0	C		29.67	+0.02	60	60	-2	SEW	1	0	•	66	57	—	
Sumburgh Head ...	29.73	53	2	0	0		29.60	-0.13	54	56	+2	SE	1	0	1	53	49	—	
Stornoway ...	29.69	57	2	0	0		29.54	-0.15	53	53	-6	SE	1	0	2	60	51	0.12	
Wick ...	29.73	55	SE	1	C		29.56	-0.17	53	53	+3	SESE	2	0	0	62	42	—	
Nairn ...	29.71	58	2	0	C		29.58	-0.13	53	54	0	2	0	0	62	40	—		
Aberdeen ...	29.73	55	NNE	3	C		29.60	-0.13	53	52	0	NW	1	0	3	60	51	0.02	
Leith ...	29.70	57	NE	1	0		29.62	-0.08	56	53	+1	W	1	0	•	60	53	0.02	
Shields ...	29.61	57	NW	2	C		29.62	+0.01	54	52	-1	W	2	0	4	61	51	0.01	
Spurn Head ...	29.58	57	SEW	5	C		29.65	+0.07	54	53	-1	WSEW	4	0	4	66	53	0.02	
York ...	29.58	57	WSEW	3	C		29.66	+0.08	53	52	-1	W	1	0	•	62	50	0.02	
Loughborough ...	29.69	58	WSEW	2	0		29.74	+0.05	56	54	-2	W	2	0	•	66	53	0.11	
BRITISH ISLANDS.																			
Ardrossan ...	29.70	60	WSEW	3	0		29.63	-0.07	53	52	-4	SEW	3	0	2	66	52	0.09	
Malin Head ...	29.70	56	NW	4	0		29.64	-0.06	53	52	-2	NW	3	0	2	59	51	0.10	
Mullaghmore ...	29.72	55	WSEW	4	0		29.70	-0.02	56	54	+1	WSEW	4	0	3	59	51	0.07	
Belmullet ...	29.68	53	SEW	2	0		29.63	-0.05	54	52	-1	WSEW	2	0	•	58	52	0.10	
Donaghadee ...	29.74	59	NNE	4	C		29.67	-0.07	53	54	-2	W	3	0	1	63	53	0.01	
Liverpool (Bidston) ...	29.70	57	WSEW	4	C		29.71	+0.01	53	53	0	W	3	0	4	61	53	0.14	
Holyhead ...	29.75	58	WSEW	2	C		29.72	-0.03	54	54	-4	WSEW	3	0	2	61	52	0.01	
Parsonstown ...	29.86	56	2	0	0		29.77	-0.09	56	53	+1	2	0	•	62	51	0.03		
Valencia ...	29.95	54	WSEW	2	0		29.84	-0.11	53	53	+2	WSEW	1	0	2	60	53	0.17	
Roche's Point ...	29.88	58	NW	4	0		29.79	-0.09	53	53	-1	NW	3	0	3	62	52	—	
Pembroke (St. Ann's Hd.) ...	29.82	59	WSEW	5	C		29.75	-0.07	53	53	+3	SEW	4	0	4	60	53	0.02	
Scilly ...	29.91	56	W	5	C		29.88	-0.03	53	53	0	WSEW	4	0	2	61	54	0.04	
Prawle Point ...	29.81	58	WSEW	5	0		29.84	-0.03	53	56	+1	SEW	5	0	4	63	52	—	
Jersey (St. Aubin's) ...	29.85	60	W	4	C		29.81	+0.04	62	57	+2	W	4	0	3	64	57	—	
Hurst Castle ...	29.76	63	WSEW	6	C		29.82	+0.06	60	57	+1	W	5	0	2	69	56	—	
Dungeness ...	29.72	63	WSEW	5	C		29.78	+0.06	60	56	+1	W	4	0	3	67	53	—	
London ...	29.72	65	WSEW	3	0		29.78	+0.06	60	57	+2	WSEW	2	0	•	69	52	0.01	
Oxford ...	29.74	56	WSEW	3	0		29.78	+0.04	58	55	+1	W	3	0	•	64	51	0.04	
Cambridge ...	29.69	60	SEW	1	0		29.74	-0.01	53	56	+2	SEW	1	0	•	68	50	0.01	
Yarmouth ...	29.69	63	WSEW	2	C		29.70	-0.01	57	53	+1	W	4	0	2	66	52	—	
GERMANY & HOLLAND.																			
Cuxhaven ...	29.72	61	W	1	C		29.71	+0.02	61	60	-2	W	2	0	•	69	59	0.16	
Berlin ...	29.75	68	SESE	2	C		29.72	-0.03	66	63	+2	SE	3	0	•	70	59	—	
Wiesbaden ...	29.79	63	W	4	C		29.79	+0.00	62	59	-3	SEW	1	0	•	70	61	0.12	
Munich ...	29.89	63	W	4	C		29.93	+0.04	60	59	-4	SEW	2	0	•	75	55	0.35	
The Helder ...	29.73	60	SEW	1	C		29.67	-0.06	60	56	-2	WSEW	2	0	3	70	52	—	
FRANCE AND BELGIUM.																			
Brussels (a.m.) ...	29.80	61	W	4	C		29.80	+0.04	55	54	-3	SEW	4	0	•	67	51	0.20	
Cape Gris Nez ...	29.74	61	W	4	C		29.74	+0.00	61	59	0	NW	4	0	•	66	57	—	
Paris ...	29.75	63	W	2	0		29.72	+0.03	54	52	-4	SEW	3	0	•	67	47	0.04	
Brest ...	29.93	60	N	3	0		29.96	+0.03	59	56	0	W	3	0	•	73	52	0.04	
Lorient ...	29.91	63	NW	5	C		29.96	+0.05	59	54	0	WSEW	5	0	•	76	57	—	
Rochefort ...	29.92	68	WSEW	5	C		29.11	+0.20	60	57	-6	NW	2	0	2	70	52	—	
Belfort ...	29.75	54	W	1	C		29.92	+0.07	62	53	-2	WSEW	1	0	•	76	52	0.70	
Lyons ...	29.78	65	NW	1	C		29.95	+0.17	56	56	-11	NW	2	0	•	81	56	1.05	
Nice ...	29.75	76	NE	1	0		29.93	+0.18	65	57	-3	W	3	0	•	80	61	0.12	
Perpignan ...	29.91	68	N	4	0		29.92	+0.01	60	57	-9	SE	3	0	2	72	57	0.35	
Biarritz ...	29.91	68	N	4	0		29.92	+0.01	60	57	-9	SE	3	0	2	72	57	0.35	
SPAIN & PORTUGAL.																			
Corunna ...	29.96	65	NW	6	C		29.97	+0.01	62	57	-4	NW	5	0	5	70	59	—	
Lisbon ...	29.96	65	NW	6	C		29.97	+0.01	62	57	-4	NW	5	0	5	70	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

Thursday, 14th August,

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 shewn thus:

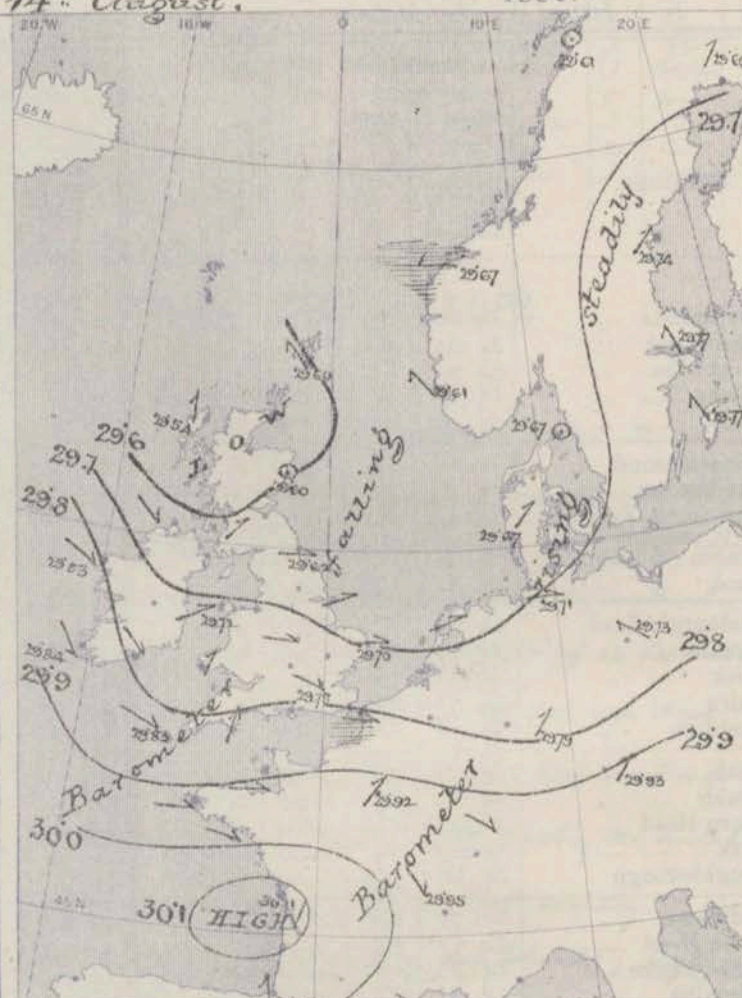
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.793
Stornoway	29.802
Wick	29.813
Nairn	29.827
Aberdeen	29.835
Leith	29.852
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York	29.907
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Parsonstown	29.919
Valencia	29.922
Roche's Point	29.922
Pembroke	29.921
Scilly	29.958
Jersey	29.976
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LONDON	29.952
Oxford	29.943
Cambridge	29.934
Yarmouth	29.929



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.

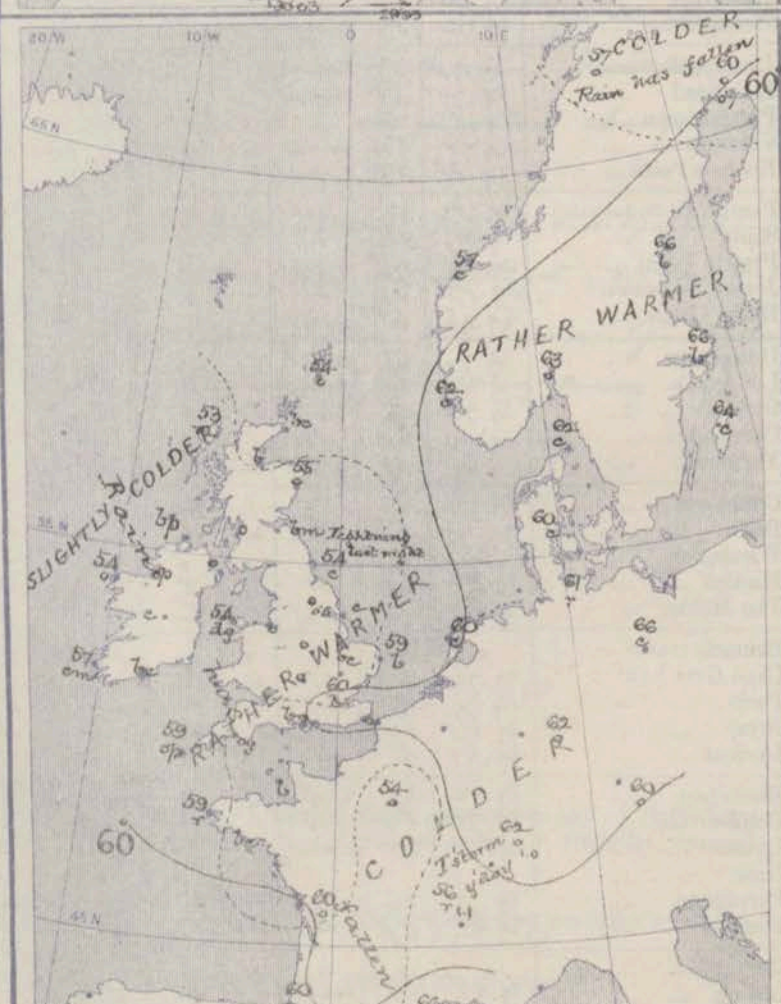
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.3 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of August.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Dry. at 3 a.m.	Wet.	
Sumburgh Head	57.9	48.5	53.8	52.0	3.21
Stornoway	58.5	49.0	55.2	53.3	3.57
Wick	61.1	48.5	55.2	53.2	2.35
Nairn	63.4	50.2	55.6	52.7	2.81
Aberdeen	63.1	50.2	56.7	53.6	3.13
Leith	65.8	51.4	57.6	54.6	2.62
Shields	63.6	52.3	57.5	54.9	2.81
York	68.1	51.4	58.0	55.3	2.47
Loughborough	70.5	52.1	59.9	57.4	2.61
Ardrossan	64.0	53.1	57.3	54.9	1.08
Donaghadee	61.8	52.0	57.0	55.5	2.90
Holyhead	64.3	55.0	58.5	56.4	2.89
Liverpool	65.7	54.3	58.7	56.5	2.79
Parsonstown	66.2	51.7	57.6	55.7	3.48
Valencia	65.0	54.1	59.4	57.0	4.65
Roche's Point	66.6	53.9	59.0	56.4	3.09
Pembroke	63.7	55.8	58.9	56.6	2.91
Scilly	64.9	57.2	61.1	59.1	2.45
Jersey	69.0	57.4	63.1	60.9	2.25
Hurst Castle	68.1	56.1	61.2	59.1	2.31
Dover	67.1	57.2	62.6	59.0	2.68
LONDON	71.8	53.7	61.4	57.8	2.20
Oxford	69.2	53.4	59.2	56.4	2.33
Cambridge	71.3	52.1	60.2	57.3	2.25
Yarmouth	66.4	55.1	60.8	57.9	2.17

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 30.11 ins. at Rockport; 30.0 ins. and upwards over the Bay of Biscay, the west of France & the N. of Spain.
Lowest 29.6 ins. and less in a shallow depression lying over and to the northeastward of Scotland.

Gradients slight and irregular.

Barometer rising in Scandinavia, France and the south and east of England, but falling elsewhere.

TEMPERATURE

Highest 66° at Helsingfors, Stockholm and Berlin, 65° at Perpignan, 64° at Wisby and Faerder.

Lowest 53° at Stornoway, 51° at Lumburg Head and Belmullet, and 55° at Kairn, Aberdeen, Ardrossan, Cork and Donaghadee.

The highest maxima registered over our Islands yesterday were 69° at Hurst Castle & in London, & 68° at Cambridge.

Light or moderate from the NWnd in Ireland, and from the Wnd or SWnd over England, the Netherlands, Germany and the north of France.

WIND

Light from the Snd or SEnd over Scandinavia and the north of Scotland.

Variable in the south of France.

WEATHER

Fine in the northern and eastern parts of Great Britain, and also in Sweden, but cloudy and showery at our western and many of the French and German stations.

Rain fell yesterday in many parts of western Europe; a thunderstorm with heavy rain occurred at Lyons; and lightning was seen in the northeast of England at night.

SEA

Moderate to smooth generally, but rather rough at Christiansand, and also at Lisbon.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

In addition to the depression in the north some shallow secondary disturbances are lying over our western coasts. These latter will probably travel eastwards, and occasion showery weather over England.

FORECASTS

For the 24 hours ending at NOON on 15TH AUGUST 1890.

DISTRICTS.

FORECASTS.

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

Variable or S³ breezes; fair to dull and rainy.

W² and SW² winds, moderate, changeable, some showers.

SW² to W² winds, fresh; changeable, some showers.

DISTRICTS.

FORECASTS.

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

W² winds, freshening, unsettled, rain at times.

W² and NW² winds, freshening, changeable, some rain.

WARNINGS

None Issued.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND		WEA.	SEA		BAR.	THER.		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.66	63	57	NNW	6	c	3		Holyhead ...	29.77	60	57	NNW	3	b c
Sumburgh Head ...	29.75	53	52	NNW	1	c	1		Valencia ...	30.00	60	57	NW	3	o
Stornoway ...	29.74	60	58	S	2	b	2		Scilly ...	29.71	61	58	NNW	5	b c
Aberdeen ...	29.76	58	53	NNE	5	c b	5		Jersey ...	29.87	63	61	NNW	4	b c m
Shields ...	29.61	60	56	NNE	3	c	4		Dungeness ...	29.76	64	59	SW	4	c
Ardrossan ...	29.73	62	62	NW	2	b c	1		London ...	29.73	67	58	NNW	3	b c
Malin Head ...	29.86	58	53	NW	4	c	3		Yarmouth ...	29.71	65	55	NNW	3	b o
Mullaghmore ...	29.87	57	54	NW	5	o	4		Rocheport ...	29.91	70	62	NNW	4	o
Belmullet ...	29.91	57	50	NNW	2	o	*								

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

Weather cloudy or overcast, in nearly all the more western and northern parts of the United Kingdom, as well as in Sweden, Finland, western Germany, Spain and the central and southern parts of France, heavy rain falling in the northeast of Great Britain, passing showers on our western coasts, and a thunderstorm at Perpignan. Fine over our Midland and southeastern counties, as well as over Russia and the greater part of southern and eastern Europe. Rain falling during day in nearly all the more western countries, - heavily in the north of England; thunderstorm occurring at Lyons in evening, and lightning in the northeast of England at night.

Temperature highest 81° at Brindisi, Constantinople and La Calle, and 78° at Barcelona, Malta, Oran, and Algiers; above 70° in most parts of Algeria, Italy and eastern Europe, and above 65° at some of the Baltic stations. Lowest 45° at Archangel, 52° at Sumburgh Head, 54° at Pembrokeshire, and 55° at several of our own western and northern stations. Daily maxima below 70° in all parts of the United Kingdom, but thermometer rising to 80° or more over the central and southern parts of France.

Wind moderate or fresh from the NWnd in all the more western and southwestern parts of the United Kingdom, light from the same quarter or from the Nnd over the Channel, the Bay of Biscay and the greater part of the Iberian Peninsula, - SW^{ly} over the Baltic, Germany and northern Italy, E^{ly} over Finland and Lapland, NE^{ly} in the north and east of Scotland. Variable in Norway, Denmark, central France and Algeria. Subsequently backing to the Wnd or SWnd in the extreme west of Ireland.

Barometer highest 30.1 ins. and upwards in an anticyclone lying over central Russia, 30.0 ins. and upwards in another system lying to the southwest of our Islands and the west of Portugal. Lowest 29.6 ins. and less in a large shallow depression over Sweden, and also in a smaller system lying off the northeast of England, 29.8 ins. and less in three depressions lying over the Mediterranean and eastern Europe. Depression off northeast of England dispersing later, but new disturbance beginning to approach our northern 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 15th August* 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.				
	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.)		Weather.	Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.																		
Haparanda ...																		
Hernösand ...																		
Stockholm ...																		
Visby ...																		
Bodö ...	29.75	55	ENE	2	c	29.20	-0.55	65	56	+0.1	ENE	4	c	*	?	52	—	
Christiansund	29.55	58	ENE	3	c	29.35	-0.20	55	56	0	WNW	4	c	3	59	55	0.00	
Skudenes ...	29.52	60	ENE	2	o	29.47	-0.05	55	53	-2	S	6	60	4	61	55	—	
Christiania Fjord (Fæder)	29.55	58	NNW	2	r	29.55	-0.15	58	55	-3	SWW	6	r	3	64	57	0.59	
Skagen (The Scaw)	29.58	57	S	0	c	29.63	-0.05	55	56	-3	SW	4	c	3	64	57	0.50	
Fanø ...	29.71	59	SW	4	c	29.67	0.04	62	61	+2	SW	6	c	*	64	59	0.16	
BRITISH ISLANDS.																		
Sumburgh Head	29.45	57	SE	2	bc	29.26	-0.19	55	54	+1	SE	2	o	3	59	49	—	
Stornoway ...	29.43	53	SW	4	o	29.11	-0.32	53	53	0	E	2	o	3	57	51	0.04	
Wick ...	29.45	57	S	2	o	29.16	-0.29	55	56	-1	S	4	o	2	62	49	—	
Nairn ...	29.46	60	S	0	c	29.12	-0.34	53	52	-2	S	0	r	1	65	48	0.10	
Aberdeen ...	29.47	58	SW	1	c	29.19	-0.28	54	53	-1	SE	3	or	4	62	53	0.09	
Leith ...	29.52	61	W	2	c	29.09	-0.43	55	54	-1	S	3	r	*	64	53	0.12	
Shields ...	29.58	61	SW	1	c	29.23	-0.35	56	55	+2	SE	5	or	3	66	52	0.02	
Spurn Head ...	29.65	62	SW	3	o	29.42	-0.23	59	57	+2	SW	6	o	4	64	53	—	
York ...	29.64	60	S	1	o	29.32	-0.32	60	57	+3	S	3	bc	*	67	53	0.05	
Loughborough	29.69	60	WNW	1	o	29.44	-0.25	62	57	+6	WNW	5	c	*	65	54	0.09	
GERMANY & HOLLAND.																		
Ardrossan ...	29.54	57	S	4	o	29.98	-0.44	56	53	+3	SW	5	dm	4	62	52	0.52	
Malin Head ...	29.52	57	SW	3	o	29.94	-0.42	56	53	-3	NNW	6	or	3	61	53	0.62	
Mullaghmore ...	29.53	58	SW	4	r	29.20	-0.33	54	52	-2	W	7	ro	6	60	51	1.13	
Belmullet ...	29.56	54	WNW	3	or	29.28	-0.28	54	51	0	WNW	6	o	*	59	53	1.44	
Donaghadee ...	29.57	60	W	3	c	29.05	-0.52	55	52	0	W	7	c	5	62	54	0.28	
FRANCE AND BELGIUM.																		
Liverpool (Bidston)	29.66	58	W	3	o	29.23	-0.43	59	53	+4	SW	6	bc	5	62	54	0.03	
Holyhead ...	29.65	58	SW	3	o	29.24	-0.41	59	53	+3	SW	6	c	6	63	54	0.20	
Parsonstown ...	29.62	56	S	2	o	29.37	-0.25	55	50	-5	SW	2	c	*	61	53	0.12	
Valencia ...	29.62	59	S	5	o	29.53	-0.09	58	54	+4	W	4	bc	5	60	52	0.23	
Roche's Point ...	29.67	57	WNW	4	r	29.52	-0.15	58	52	+6	W	5	c	4	61	54	0.25	
SPAIN.																		
Pembroke (St. Ann's Hd.)	29.73	58	SW	5	c	29.51	-0.22	59	54	+2	WNW	7	bc	7	61	53	0.17	
Scilly ...	29.81	63	SW	3	or	29.68	-0.13	61	58	+2	W	5	bc	2	63	56	0.12	
Prawle Point ...	29.82	58	WNW	6	o	29.67	-0.15	60	59	+1	WNW	7	o	5	62	53	0.06	
Jersey (St. Aubin's)	29.88	62	W	4	bc	29.79	-0.09	63	61	+2	SW	7	or	5	65	59	0.02	
Hurst Castle ...	29.80	61	WNW	7	c	29.64	-0.16	62	61	+1	WNW	8	c	4	64	57	0.08	
PORTUGAL.																		
Dungeness ...	29.80	61	WNW	6	c	29.67	-0.13	60	58	0	WNW	8	or	6	68	58	0.02	
London ...	29.75	61	SW	4	bc	29.53	-0.27	62	60	+2	SW	6	o	*	69	56	0.01	
Oxford ...	29.72	56	SW	2	o	29.55	-0.17	62	58	+4	SW	3	c	*	67	54	0.16	
Cambridge ...	29.72	59	SW	1	o	29.53	-0.19	61	59	+2	SW	3	o	*	69	53	0.17	
Yarmouth ...	29.72	63	WNW	3	bc	29.57	-0.15	61	57	+4	SW	5	c	4	67	56	—	
NETHERLANDS.																		
Cuxhaven ...	29.77	60	W	4	r	29.80	+0.03	60	59	-1	SW	4	c	*	67	59	0.24	
Berlin ...	29.86	64	SW	2	c	29.96	+0.10	60	57	-6	SW	2	c	*	73	54	—	
Wiesbaden ...						30.03	+0.17	57	54	-5	S	0	o	*	70	53	—	
Munich ...	30.06	57	S	0	o	30.16	+0.10	58	56	-2	NW	3	o	*	70	57	0.16	
The Helder ...	29.76	61	SW	3	c	29.68	-0.08	60	57	0	SW	4	o	4	64	59	0.20	
BELGIUM.																		
Brussels (a.m.)						29.84	+0.04	60	56	+5	S	6	c	*	66	54	0.04	
Cape Gris Nez	29.82	61	W	5	bc	29.72	-0.10	62	60	+2	WNW	7	r	7	68	57	—	
Paris ...	29.75	62	SW	2	c	29.57	-0.18	58	55	+3	SW	3	o	*	69	54	—	
Brest ...	29.89	62	W	3	o	29.78	-0.11	62	61	+1	WNW	3	r	4	75	54	0.04	
Lorient ...	29.96	63	WNW	4	o	29.88	-0.08	63	62	+1	SW	7	r	7	64	59	0.04	
FRANCE.																		
Rochefort ...	30.11	66	W	4	bc	30.11	0.00	66	63	+3	SW	5	o	2	73	57	—	
Belfort ...																		
Lyons ...																		
Nice ...	29.88	70	SW	1	bc	29.99	+0.11	72	69	-3	ENE	4	c	1	82	63	—	
Perpignan ...	30.02	69	W	3	c	30.14	+0.12	64	59	-5	W	2	c	*	75	54	0.08	
Biarritz ...	30.10	69	NNW	3	c	30.12	+0.02	61	56	+5	ENE	3	c	1	78	55	—	
PORTUGAL.																		
Corunna ...																		
Lisbon ...	29.95	68	NNW	5	c	30.01	+0.06	68	59	+9	NE	2	c	2	77	?	—	

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

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

WEATHER CHARTS

for 8 a.m. on

Friday, 15th August.

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 6 to 7; → = forces 1 to 4.

⊙ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

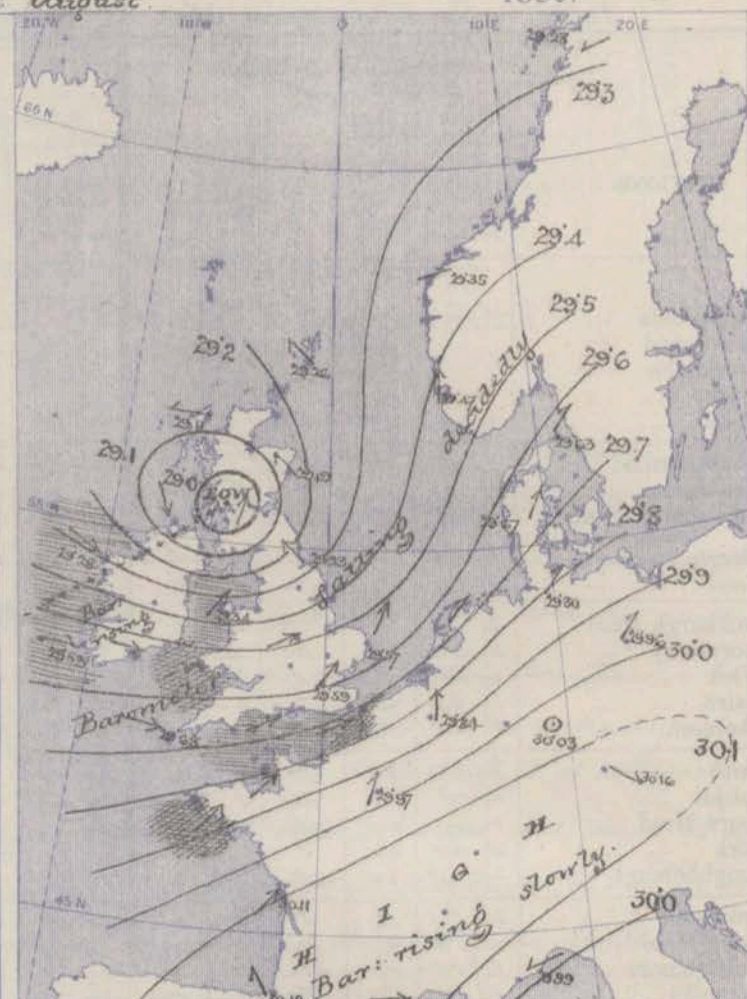
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.793
Stornoway	29.802
Wick	29.815
Nairn	29.827
Aberdeen	29.835
Leith	29.852
Shields	29.875
York	29.907
Loughborough	29.925
Ardrossan	29.860
Donaghadee	29.877
Holyhead	29.904
Liverpool	29.903
Parsonstown	29.919
Valencia	29.922
Roche's Point	29.922
Pembroke	29.921
Silly	29.958
Jersey	29.970
Hurst Castle	29.960
Dover	29.950
LONDON	29.952
Oxford	29.943
Cambridge	29.934
Yarmouth	29.929



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.

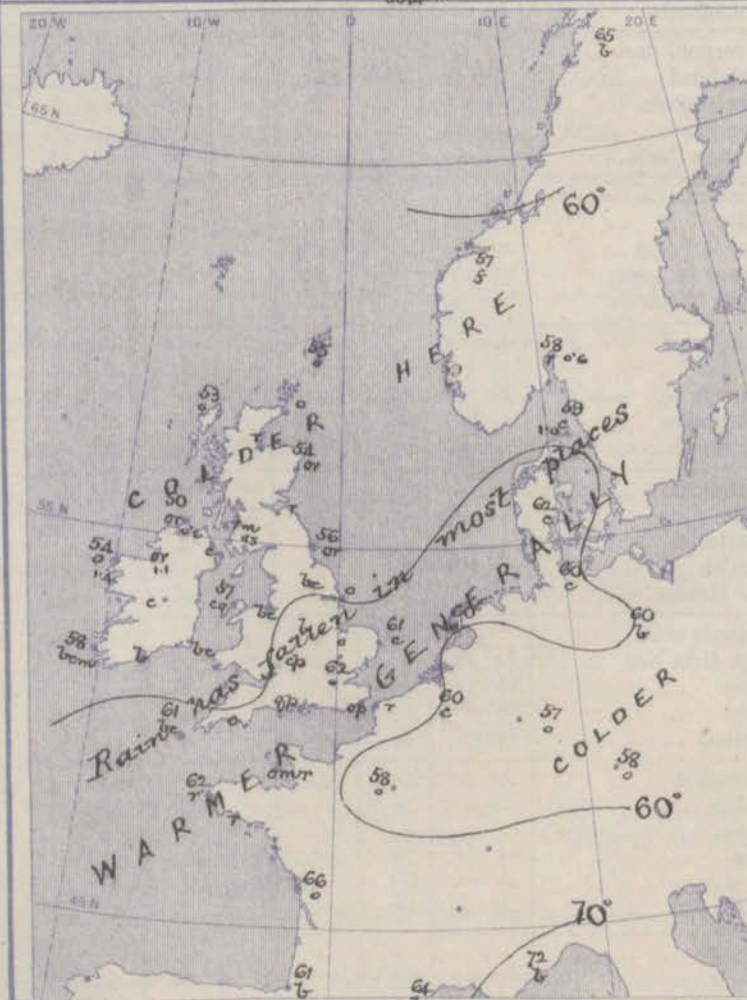
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of August.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	57.9	48.5	53.8	52.0	3.21
Stornoway.....	58.5	49.0	55.2	53.3	3.57
Wick.....	61.1	48.5	55.2	53.2	2.35
Nairn.....	63.4	50.2	55.6	52.7	2.81
Aberdeen.....	63.1	50.2	56.7	53.6	3.13
Leith.....	65.8	51.4	57.6	54.5	2.62
Shields.....	63.5	52.3	57.5	54.9	2.81
York.....	68.1	51.1	58.0	55.3	2.47
Loughborough.....	70.5	52.1	59.9	57.4	2.61
Ardrossan.....	64.0	53.1	57.3	54.9	4.08
Donaghadee.....	61.8	52.0	57.0	55.5	2.90
Holyhead.....	64.3	55.0	58.5	56.4	2.89
Liverpool.....	65.7	54.3	58.7	55.5	2.79
Parsonstown.....	66.2	51.7	57.6	55.7	3.48
Valencia.....	65.0	54.1	59.4	57.0	4.65
Roche's Point.....	66.6	53.9	59.0	56.4	3.59
Pembroke.....	63.7	55.8	58.9	56.6	2.91
Silly.....	64.9	57.2	61.1	59.1	2.45
Jersey.....	69.0	57.4	63.1	60.0	2.26
Hurst Castle.....	68.1	56.1	61.2	59.1	2.31
Dover.....	67.1	57.2	62.6	59.0	2.06
LONDON.....	71.8	53.7	61.4	57.8	2.20
Oxford.....	69.2	53.4	59.2	56.4	2.33
Cambridge.....	71.3	52.1	60.2	57.3	2.25
Yarmouth.....	66.4	55.1	60.8	57.9	2.17

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



GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest 30.1 ins. and upwards in an anticyclone lying over the southern parts of France and Germany. Lowest 29.0 ins. and less in a depression lying off the southwest of Scotland. Gradients slight in the extreme north of our Islands, and also in the south of France, but rather steep elsewhere. Barometer falling quickly over the northern parts of the United Kingdom, but rising again on our S.W. coasts.
TEMPERATURE	Highest 72° at Nice, 68° at Lisbon, 66° at Rochefort, 65° at Bodo, 64° at Perpignan, 63° at Jaxby, Lorient & in London. Lowest 50° at Malin Head, 53° at Stormoway and Kairn, and 54° at Aberdeen, Belmullet and Mullaghmore. The highest maxima registered over our Islands yesterday were 69° in London and at Brambridge, and 68° at Dungness.
WIND	Strong from the SW nd or W nd over Ireland, England and the north of France, with a gale in the Channel. Moderate to strong from the S nd on the eastern shores of the North Sea. Light from the SE nd in the north and east of Scotland; variable in the south of France.
WEATHER	Cloudy or overcast in most parts of northwestern Europe, with rain in the north of our Islands, & passing showers in the south of France. Fine on our extreme southwest coasts, and also in the south of France. Since yesterday morning 1.4 inch of rain has fallen at Belmullet, 1.1 inch at Mullaghmore, 1.0 inch at Skerries, and 0.6 inch at Malin Head.
SEA	High at Pembroke, Cape Gris Nez and Lorient, and rough on our western and southern coasts generally.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression off the southwest of Scotland will probably move north-eastwards, and the winds on our southern coasts are therefore likely to subside gradually. Showery weather will probably continue in most districts.

FORECASTS

For the 24 hours ending at NOON on 16th AUGUST 1890.

DISTRICTS.

FORECASTS.

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

SE² to NE² winds, force doubtful; dull and rainy at first, some improvement later.

SW² to W² winds, strong, a gale in places; squally, showery.

SW² and W² gales, moderating gradually; squally, showery.

DISTRICTS.

FORECASTS.

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

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

Same as N° 5.

W² and NW² gales, moderating later; squally, showery.

W² winds, fresh or strong; squally, showery.

WARNINGS

The S. Cone was hoisted last evening in districts 5, 8, 10 and part of 7, and this morning in 2, 3, 6, 9 and the remainder of 7.

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 ...	29.61	61	57	NE	6	0	3		Holyhead ...	29.71	60	56	SW	2	2
Sumburgh Head ...	29.58	56	53	SE	2	0	3		Valencia ...	29.78	59	56	W	3	3
Stornoway ...	29.49	55	53	SW	1	0	2		Scilly ...	29.85	60	61	W	3	2
Aberdeen ...	29.55	62	57	SW	2	0	3		Jersey ...	29.92	64	59	SW	3	3
Shields ...	29.61	65	57	W	2	0	3		Dungeness ...	29.81	65	58	SW	6	4
Ardrossan ...	29.60	61	57	W	1	0	3		London ...	29.79	65	57	SW	3	8
Malin Head ...	29.62	58	54	W	3	0	3		Yarmouth ...	29.75	64	63	W	1	2
Mullaghmore ...	29.65	59	54	SW	4	0	3		Rocheport ...	30.12	70	62	W	0	9
Belmullet ...	29.66	57	54	W	2	0	*								

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

Weather fine over the greater part of Europe, but cloudy and showery in the west of our Islands, as well as at several of the French and German stations. Fog reported at Riga and Copenhagen, and also at Baghairs. Showers falling during day in many parts of the United Kingdom, and heavy rain settling in over Ireland at night, the largest amounts reported next morning being 1.4 ins. at Belmullet, and 1.1 ins. at Mullaghmore.

Temperature highest 81° at Brindisi and La Caille, 80° at Tunis, 79° at Lesina, and 78° at Baghairs and Algiers; above 70° at all the Mediterranean stations, and above 65° in Sweden. Lowest 45° at Archangel, 53° at Stornoway, and 54° at Sumburgh Head, Shields, Belmullet and Paris; below 60° in most parts of the United Kingdom and France. Highest daily maxima over our Islands 69° in London and at Cambridge, and 68° at Dungeness, but thermometer rising above 70° in Germany and France and reaching 82° at Nice.

Wind light or moderate from the NW^w in Ireland, and from the W^w or SW^w over England, the Netherlands, western Germany and the north of France. Light from the SE^w or S^w in the north of Scotland, and also over Scandinavia, Russia and eastern Germany. NE⁴ or N⁴ in Italy, Spain and the south of France; variable in Algeria. Subsequently backing to the SW^w or S^w in Ireland, and increasing to a moderate gale at night.

Barometer highest 30.1 ins. and upwards over the Bay of Biscay, 30.0 ins. and upwards in Russia. Lowest 29.6 ins. and less in a shallow and irregularly formed depression lying over Scotland, 29.8 ins. and less in a larger but still shallower disturbance lying over the Mediterranean. Depression over Scotland subsequently spreading eastwards and southwards, new and much deeper system approaching our western coasts at night, and barometer falling quickly at the Irish 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 21 per annum, payable in advance.

DAILY WEATHER REPORT.

for *Saturday 16th August.*

1890.

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

Issued by the Meteorological Office, 55, Victoria 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.		Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
	Reading at 32° F. and Sea Level.	Dry.	Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)		Max.	Min.			
SCANDINAVIA.	Haparanda ...	29.74	65	2	0	0	29.77	-0.03	64	62	+3	SW	2	0	•	70	50	0.05
	Hörnösand ...	29.70	59	SW	2	0	29.73	+0.11	61	58	-1	S	4	0	•	70	57	0.63
	Stockholm ...	29.83	63	S	2	0	29.84	+0.23	64	60	+3	S	4	0	•	70	57	—
	Wisby ...	29.81	62	SE	6	0	29.90	+0.17	67	62	+6	SW	6	0	•	70	57	—
	Bodö ...	29.56	64	ENE	4	0	29.55	+0.27	65	58	0	ENE	4	0	2	66	55	—
	Christiansund ...	29.26	57	E	3	C	29.26	-0.05	60	54	+3	ENE	3	C	2	•	55	—
	Skudesnæs ...	29.27	60	SE	5	0	29.47	+0.3	53	53	-1	S	9	C	8	61	57	1.42
	Christiania Fjord (Farther) ...	29.56	60	S	5	0	29.63	+0.07	60	57	+2	SW	6	C	5	61	57	0.24
	Skagen (The Scaw) ...	29.63	58	SW	3	0	29.65	+0.06	60	58	+1	SW	3	0	3	64	57	0.20
	Farø ...	29.67	62	SW	6	C	29.73	+0.06	63	62	+1	SW	6	C	•	63	61	0.04
BRITISH ISLANDS.	Sumburgh Head ...	29.06	54	SE	2	0	29.10	-0.16	53	53	-2	WNW	1	0	4	58	50	0.22
	Stornoway ...	29.10	55	0	0	0	29.23	+0.12	54	54	+1	SW	2	0	2	57	50	0.52
	Wick ...	29.08	54	ENE	2	0	29.24	+0.08	54	54	-3	WNW	2	0	1	57	50	0.33
	Nairn ...	29.07	53	SW	1	0	29.28	+0.16	54	51	+1	SW	1	C	1	57	50	0.38
	Aberdeen ...	29.08	57	SW	1	0	29.38	+0.19	52	49	-2	SW	2	C	4	62	50	0.66
	Leith ...	29.23	57	W	4	C	29.43	+0.34	53	50	0	WNW	4	0	•	62	49	0.01
	Shields ...	29.35	57	SW	5	C	29.51	+0.28	52	51	-4	S	3	0	2	63	49	—
	Spurn Head ...	29.52	63	SW	6	0	29.60	+0.18	57	53	-2	SW	4	0	4	67	52	0.06
	York ...	29.48	60	SW	4	C	29.57	+0.25	54	52	-6	S	1	0	•	65	50	—
	Loughborough ...	29.60	62	WNW	6	C	29.64	+0.20	53	51	-9	SW	3	C	•	69	49	0.20
BRITISH ISLANDS.	Ardrossan ...	29.20	56	W	5	0	29.46	+0.48	56	54	0	WNW	4	C	3	60	51	0.01
	Malin Head ...	29.25	51	WNW	7	0	29.45	+0.41	53	50	+3	SW	4	0	3	57	50	0.25
	Mullaghmore ...	29.40	53	WNW	6	0	29.52	+0.32	53	52	+1	SW	4	C	3	57	49	0.05
	Belmullet ...	29.41	57	W	4	0	29.53	+0.27	57	52	+3	W	4	0	2	58	50	0.09
	Donaghadee ...	29.39	59	W	5	C	29.53	+0.48	53	51	-2	W	4	0	•	62	52	0.19
	Liverpool (Bidston) ...	29.50	56	WNW	6	C	29.58	+0.25	52	52	-7	ENE	2	0	3	64	50	0.30
	Holyhead ...	29.51	57	SW	5	0	29.58	+0.24	59	54	+2	WNW	3	0	3	63	52	—
	Parsonstown ...	29.43	57	SW	2	C	29.63	+0.26	52	49	-3	SW	1	0	•	61	43	0.12
	Valencia ...	29.58	56	SW	5	0	29.70	+0.17	57	53	-1	WNW	3	0	5	62	48	0.20
	Roche's Point ...	29.57	58	W	5	0	29.70	+0.18	55	51	-3	WNW	4	0	4	62	50	—
BRITISH ISLANDS.	Pembroke (St. Ann's Hd.) ...	29.62	57	SW	7	C	29.66	+0.15	54	52	-5	WNW	4	0	6	60	52	0.29
	Scilly ...	29.74	60	WNW	7	C	29.76	+0.08	58	53	-2	W	5	0	3	65	52	0.07
	Prawle Point ...	29.75	58	SW	7	C	29.78	+0.11	58	55	-2	WNW	7	0	5	61	54	0.30
	Jersey (St. Aubin's) ...	29.86	64	WNW	7	C	29.89	+0.10	58	56	-5	WNW	6	0	5	65	57	0.04
	Hurst Castle ...	29.75	62	WNW	8	0	29.77	+0.12	61	59	-1	WNW	7	0	4	65	59	0.01
	Dungeness ...	29.74	63	W	7	0	29.78	+0.11	63	59	+3	W	5	0	4	67	60	—
	London ...	29.70	63	WNW	7	C	29.73	+0.14	60	57	-3	SW	4	0	•	72	56	—
	Oxford ...	29.71	57	SW	4	0	29.69	+0.14	59	54	-3	SW	4	0	•	66	54	—
	Cambridge ...	29.64	60	SW	3	0	29.68	+0.15	62	57	+1	SW	3	0	•	70	52	—
	Yarmouth ...	29.63	65	WNW	5	0	29.71	+0.14	60	57	-1	SW	4	0	4	70	53	0.01
GERMANY & HOLLAND.	Cuxhaven ...	29.78	61	SW	5	0	29.85	+0.05	61	60	+1	SW	3	0	•	68	59	—
	Berlin ...	29.99	66	SW	3	0	30.04	+0.08	66	59	+6	S	4	0	•	73	52	—
	Wiesbaden ...	30.07	60	0	0	0	30.07	+0.04	61	58	+4	2	0	•	70	52	—	
	Munich ...	30.17	60	2	0	0	30.21	+0.05	61	58	+3	SE	2	0	•	68	53	—
	The Helder ...	29.71	62	SW	4	0	29.77	+0.09	62	58	+2	SW	4	0	3	66	59	0.04
	Brussels (a.m.) ...	29.89	63	SW	6	0	29.89	+0.05	61	52	+1	SW	4	0	•	65	59	0.05
	Cape Gris Nez ...	29.77	63	WNW	6	0	29.81	+0.08	62	59	0	WNW	5	0	5	66	59	—
	Paris ...	29.94	70	SW	3	0	29.97	+0.03	63	60	+3	SW	3	0	•	72	57	—
	Brest ...	29.88	62	W	3	0	29.88	+0.10	61	59	-1	W	4	0	4	73	52	0.13
	Lorient ...	29.92	63	WNW	2	0	29.92	+0.04	63	60	0	W	4	C	5	66	59	0.08
FRANCE AND BELGIUM.	Rochefort ...	30.11	69	WNW	4	C	30.08	-0.03	64	57	-2	SW	3	0	•	72	57	—
	Belfort ...	30.10	64	SW	1	0	30.12	+0.12	61	57	-4	SE	1	0	•	73	53	—
	Lyons ...	30.02	74	E	1	0	30.12	+0.13	68	61	-4	ENE	3	0	1	74	61	—
	Nice ...	30.08	74	NE	2	0	30.08	-0.06	68	63	+4	SW	2	0	•	80	57	—
	Perpignan ...	30.04	72	ENE	2	0	30.03	-0.09	65	62	+4	WNW	3	0	•	79	57	—
	Biarritz ...	30.04	72	ENE	2	0	30.03	-0.09	65	62	+4	WNW	3	0	•	79	57	—
	Corunna ...	29.99	74	WNW	5	0	30.03	+0.02	66	60	-2	N	3	0	2	86	63	—
	Lisbon ...	29.99	74	WNW	5	0	30.03	+0.02	66	60	-2	N	3	0	2	86	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

Saturday 10th August

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:

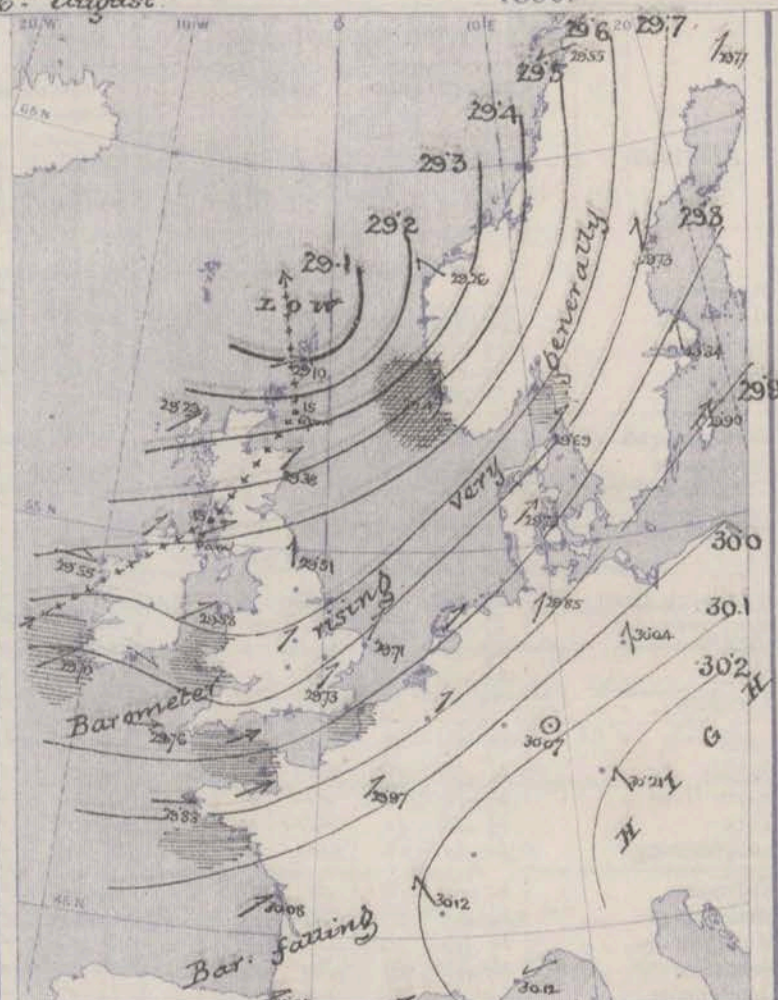
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.793
Stornoway	29.802
Wick	29.818
Nairn	29.827
Aberdeen	29.835
Leith	29.852
Shields	29.875
York	29.907
Loughborough	29.925
Ardrossan	29.860
Donaghadee	29.877
Holyhead	29.904
Liverpool	29.903
Parsonstown	29.919
Valencia	29.922
Roche's Point	29.922
Pembroke	29.921
Seilly	29.958
Jersey	29.976
Hurst Castle	29.960
Dover	29.950
LONDON	29.952
Oxford	29.943
Cambridge	29.934
Yarmouth	29.929



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.

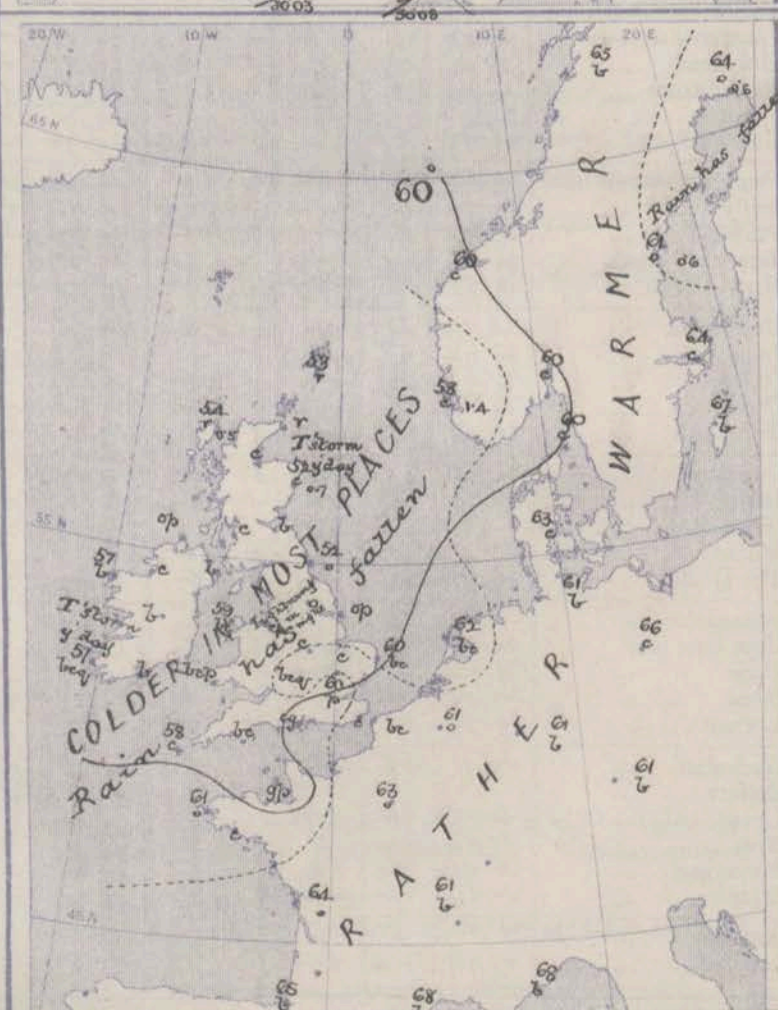
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of August.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	57.9	48.5	63.8	52.0	3.21
Stornoway.....	58.4	49.0	55.2	53.3	3.57
Wick.....	61.1	48.5	55.2	53.2	2.35
Nairn.....	63.4	50.2	55.6	52.7	2.81
Aberdeen.....	63.1	50.2	56.7	53.6	3.13
Leith.....	65.8	51.4	57.6	54.6	2.62
Shields.....	63.5	52.3	57.5	54.9	2.81
York.....	68.1	51.4	58.0	55.3	2.47
Loughborough.....	70.5	52.1	59.9	57.4	2.61
Ardrossan.....	64.0	53.1	57.3	54.9	4.08
Donaghadee.....	61.8	52.0	57.0	55.5	2.99
Holyhead.....	64.3	55.0	58.5	56.4	2.89
Liverpool.....	65.7	54.3	58.7	55.5	2.79
Parsonstown.....	66.2	51.7	57.6	55.7	3.45
Valencia.....	65.0	51.1	60.4	57.0	4.65
Roche's Point.....	66.6	53.9	59.0	56.4	3.59
Pembroke.....	63.7	55.8	58.9	56.6	2.91
Seilly.....	64.9	57.2	61.1	59.1	2.45
Jersey.....	69.0	57.4	63.1	60.0	2.25
Hurst Castle.....	65.1	59.1	61.2	59.1	2.31
Dover.....	67.1	57.2	62.6	59.0	2.08
LONDON.....	71.8	53.7	61.4	57.8	2.29
Oxford.....	69.2	53.4	59.2	56.4	2.33
Cambridge.....	71.3	52.1	60.2	57.3	2.25
Yarmouth.....	66.4	55.1	60.8	57.9	2.17

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, over South Germany.
Lowest, 29.1 in. and less, in a depression lying off the north of Scotland.
Gradients, rather steep in most parts of North-western Europe, but slight over Germany and France.
Barometer rising generally, but falling on the west coasts of Norway and France.

TEMPERATURE

Highest, 68° at Nice and Perpignan, 67° at Wiesbaden, 66° at Berlin and Liebow, and 65° at Bonn and Hanitz.
Lowest, 52° at Aberdeen and Shields, 51° at Liverpool and Penzance, and 50° at Edinburgh, Leith, Malin Head and Donaghadee.
 The highest maxima registered over our islands yesterday were 72° in London, 70° at Cambridge and Yarmouth, and 68° at Loughborough.

WIND

Moderate from the S.W. or W. over the greater part of our islands and France, but strong at the Channel stations.
 S. in Sweden, Denmark, Germany, and the south of Norway, with a gale at Kristiansund.
 E. in the west of Norway and also in the south of France.

WEATHER

Varying greatly in different localities; fair at most of the Continental stations, but showery in many parts of the United Kingdom and rain in the extreme north of Scotland.
 Rain fell yesterday in nearly all parts of North-western Europe, thunderstorms occurred at Aberdeen and Bute, and lightning was seen at Liverpool.

SEA

Very high at Kristiansund and rather rough on our south and south-west coasts, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The shallow secondary depressions which are now passing across the Kingdom seem likely to occasion a continuance of showery unsettled weather.

FORECASTS

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

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	} S.W. winds, light; changeable, some showers.
1	SCOTLAND EAST	
2	ENGLAND N.E.	} S. and S.W. winds, fresh; changeable, some showers.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	SW. winds, strong; squally, showery.

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	} S.W. and W. winds, moderate; changeable, some showers.
7	ENGLAND N.W.	
8	ENGLAND S.W.	SW. and W. winds, strong; squally, showery.
9	IRELAND NORTH	} Same as No 6 and 7.
10	IRELAND SOUTH	

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA	SEA		BAR:	THER:		WIND		WEA	SEA
		D	W.	D.	F.					D	W.	D.	F.		
Skudermoes ...	29.38	60	57	SE	8	T	5		Holyhead ...	29.47	61	54	SW	6	bc
Sumburgh Head ...	29.15	55	55	SE	1	T	4		Valencia ...	29.57	62	56	SW	5	bc p
Stornoway ...	29.07	57	55	SE	1	O	2		Scilly ...	29.72	65	62	SW	4	bc
Aberdeen ...	29.02	60	55	SE	4	C	4		Jersey ...	29.84	65	59	WSW	6	bc
Shetland ...	29.24	59	55	SW	7	C	3		Dungeness ...	29.68	67	61	W	6	bc
Ardara ...	29.19	55	54	W	7	T	3		London ...	29.66	68	60	WSW	5	bc p
Malin Head ...	29.21	54	51	W	7	O	5		Yarmouth ...	29.58	70	59	WSW	6	bc p
Mullaghmore ...	29.26	59	53	WSW	7	bc	6		Rochefort ...	30.12	69	69	WSW	5	0
Belmullet ...	29.39	58	53	W	5	bc	*								

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

The Continental Information has not yet arrived.

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; v. very, 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 Sunday 17th August 1890.

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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 ...	29.82	65	2	0	7	29.78	+0.1	62	60	-2	SE	4	0	*	?	57	0.04	
Hernösand ...	29.73	59	SE	2	0	29.45	-2.8	57	56	-4	NE	6	7	*	66	50	0.79	
Stockholm ...	29.84	62	SW	4	0	29.70	-1.4	60	54	-4	SW	6	0	*	70	58	0.32	
Wisby ...	29.86	64	WSW	4	C	29.87	-0.3	59	55	-8	WSW	8	6	*	70	57	0.49	
Bodö ...	29.56	60	SE	2	bc	29.58	+0.3	62	55	-3	SE	2	bc	1	76	54	—	
Christiansund	29.40	57	2	0	C	29.49	+0.23	56	51	-4	SE	3	C	2	61	52	—	
Skudesnaes ...	29.51	56	SW	6	C	29.61	+0.14	59	55	+1	SW	6	C	5	61	55	0.04	
Christiania Fjord (Pardier)	29.61	59	SE	4	0	29.67	+0.04	59	55	-1	WSW	7	bc	4	63	53	0.39	
Skagen (The Seaw)	29.67	58	SW	4	0	29.78	+0.09	59	57	-1	W	6	bc	5	63	52	0.20	
Fanö ...	29.72	57	SW	8	C	29.91	+0.18	62	61	-1	SW	4	bc	*	64	55	0.28	
Sumburgh Head	29.27	55	WSW	1	C	29.39	+0.25	54	53	+1	W	1	0	2	58	50	0.02	
Stornoway ...	29.23	56	SW	4	0	29.38	+0.27	53	53	-1	NW	3	0	4	57	50	0.38	
Wick ...	29.36	54	WNW	1	7	29.48	+0.24	55	54	+1	NW	3	0	2	57	54	0.37	
Nairn ...	29.48	55	SW	2	C	29.48	+0.20	56	54	+2	SW	1	C	1	57	50	0.01	
Aberdeen ...	29.45	56	SW	3	C	29.52	+0.14	54	52	+2	SW	1	C	3	62	52	0.04	
Leith ...	29.51	57	WSW	4	C	29.55	+0.12	57	54	+2	WSW	4	bc	*	62	54	0.02	
Shields ...	29.61	61	WSW	3	bc	29.67	+0.16	58	55	+6	SW	4	C	2	63	50	0.03	
Spurn Head ...	29.76	60	SW	4	C	29.83	+0.23	60	56	+3	SW	5	bc	4	62	50	0.17	
York ...	29.72	60	W	3	bc	29.80	+0.23	61	55	+7	WSW	4	bc	*	62	49	0.08	
Loughborough	29.81	62	WSW	3	bc	29.89	+0.25	59	55	+6	WSW	4	bc	*	65	51	0.06	
BRITISH ISLANDS.																		
Ardrossan ...	29.56	57	WSW	4	0	29.62	+0.16	58	55	+2	WSW	3	0	3	61	54	0.14	
Malin Head ...	29.52	56	SW	6	0.08	29.66	+0.21	56	55	+3	NW	4	0.08	3	60	53	0.12	
Mullaghmore ...	29.53	59	SW	5	C	29.73	+0.21	58	55	+3	WNW	4	0.08	3	62	54	0.15	
Belmullet ...	29.63	58	W	4	bc	29.77	+0.22	56	55	-1	NW	2	0	*	60	53	0.20	
Donaghadee ...	29.60	63	W	4	bc	29.71	+0.18	56	55	+3	W	4	bc	2	67	53	0.01	
Liverpool (Bidston)	29.75	60	SW	5	bc	29.81	+0.23	60	54	+8	SW	3	bc	4	63	50	0.09	
Holyhead ...	29.72	58	SW	5	bc	29.81	+0.23	59	55	0	WSW	5	bc	4	62	55	—	
Parsonstown ...	29.69	60	SW	1	bc	29.81	+0.18	55	54	+3	SW	2	C	*	63	50	0.01	
Valencia ...	29.80	60	W	3	bc	29.87	+0.17	59	55	+2	WSW	2	bc	2	63	51	0.03	
Roche's Point...	29.77	60	W	5	bc	29.86	+0.16	57	54	+2	W	3	bc	4	61	52	0.10	
Pembroke (St. Ann's Hd.)	29.83	58	WSW	6	bc	29.90	+0.24	59	57	+5	SW	4	bc	5	59	53	0.17	
Scilly ...	29.55	61	SW	4	bc	29.95	+0.15	62	59	+4	SW	3	bc	3	63	53	—	
Prawle Point...	29.95	60	WSW	6	bc	29.98	+0.20	56	56	-2	WSW	5	bc	3	60	54	0.11	
Jersey (St. Aubin's)	30.00	62	W	4	bc	30.03	+0.14	63	57	+5	WSW	3	bc	3	65	52	—	
Hurst Castle ...	29.94	62	WSW	7	bc	30.00	+0.23	62	59	+1	WSW	5	bc	3	65	57	0.02	
Dungeness ...	29.88	62	W	7	bc	30.00	+0.22	62	56	-1	W	4	bc	3	66	58	—	
London ...	29.89	63	W	4	bc	29.97	+0.24	65	58	+5	WSW	3	bc	*	72	49	—	
Oxford ...	29.92	55	WSW	3	bc	29.94	+0.25	60	55	+1	SW	4	bc	*	64	50	—	
Cambridge ...	29.85	62	SW	1	bc	29.94	+0.26	60	55	-2	SW	3	bc	*	68	45	—	
Yarmouth ...	29.80	62	W	5	bc	29.92	+0.21	60	55	0	WSW	4	bc	3	65	50	0.03	
GERMANY & HOLLAND.																		
Cuxhaven ...	29.81	59	SW	3	bc	29.99	+0.14	57	56	-4	SW	2	bc	*	67	55	—	
Berlin ...	29.90	73	SW	3	bc	30.13	+0.09	64	59	-2	W	2	bc	*	81	59	—	
Wiesbaden ...	*	*	*	*	*	30.07	0.0	66	61	+5	2	0	bc	*	79	59	—	
Munich ...	30.12	67	2	0	bc	30.17	-0.04	68	61	+7	E	1	bc	*	77	59	—	
The Helder ...	29.87	61	WSW	4	bc	29.96	+0.15	60	57	-2	SW	2	bc	2	66	55	0.08	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.)	*	*	*	*	*	30.12	+0.23	62	56	+1	WSW	1	C	*	70	50	0.04	
Cape Gris Nez	29.92	61	WSW	6	bc	29.99	+0.18	66	59	+4	SW	3	C	3	76	53	—	
Paris ...	30.00	69	WSW	2	bc	30.04	+0.07	57	55	-6	NE	1	bc	*	70	50	—	
Brest ...	29.96	61	W	3	bc	30.00	+0.12	60	59	-1	W	1	0	2	75	55	—	
Lorient ...	30.00	64	W	3	bc	30.03	+0.11	58	56	-5	E	1	bc	4	66	55	—	
FRANCE AND BELGIUM.																		
Rochefort ...	29.72	?	WNW	3	bc	30.07	-0.01	61	59	-3	NE	4	bc	2	77	54	—	
Belfort ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lyons ...	29.95	77	SE	1	bc	30.04	-0.08	68	63	+7	W	1	bc	*	83	61	—	
Nice ...	30.07	70	NW	4	bc	30.04	-0.08	74	63	+6	NE	4	bc	1	82	66	—	
Perpignan ...	30.04	72	NE	3	C	30.02	-0.06	68	67	0	E	2	0	*	79	66	—	
Biarritz ...	30.03	70	NE	3	bc	29.95	-0.08	67	63	+2	E	2	0	3	77	64	—	
PENIN- SULA.																		
Corunna ...	*	*	*	*	*	29.92	-0.14	64	62	-5	N	1	bc	6	77	59	—	
Lisbon ...	30.00	70	NW	4	bc	29.98	-0.05	61	59	-5	NW	4	bc	2	82	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, 17th August,

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:

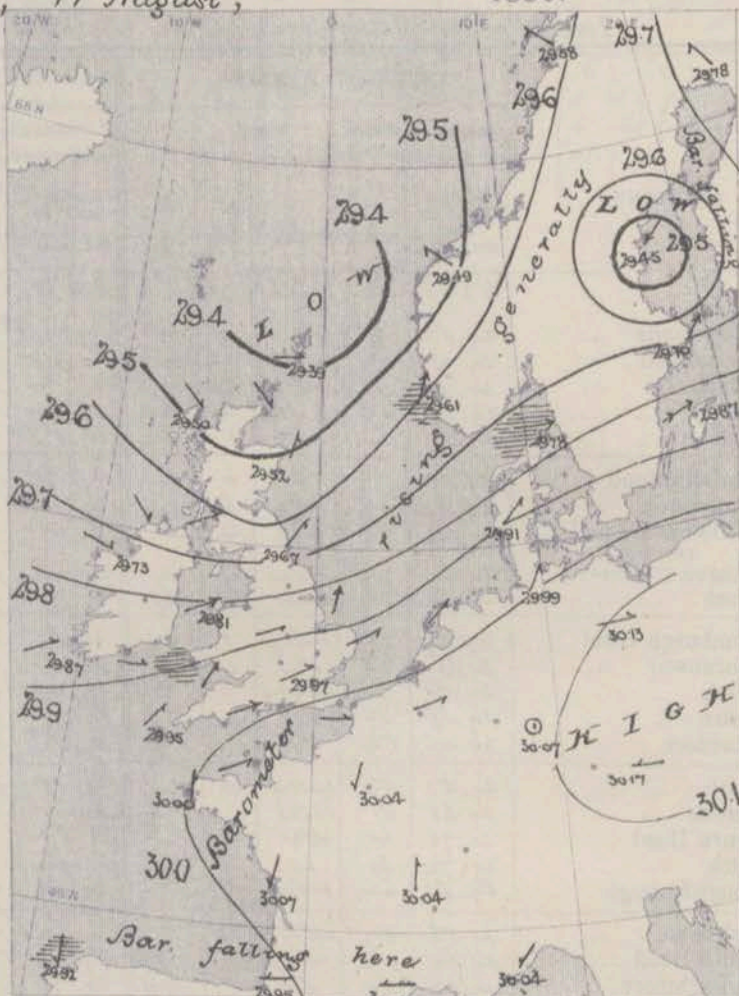
— = Rough. — = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.793
Stornoway	29.802
Wick	29.813
Nairn	29.827
Aberdeen	29.835
Leith	29.832
Shields	29.875
York	29.907
Loughborough	29.925
Ardrrossan	29.860
Donaghadee	29.877
Holyhead	29.904
Liverpool	29.903
Parsonstown	29.919
Valencia	29.922
Roche's Point	29.922
Pembroke	29.921
Seilly	29.958
Jersey	29.976
Hurst Castle	29.960
Dover	29.950
LONDON	29.952
Oxford	29.943
Cambridge	29.934
Yarmouth	29.929



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.

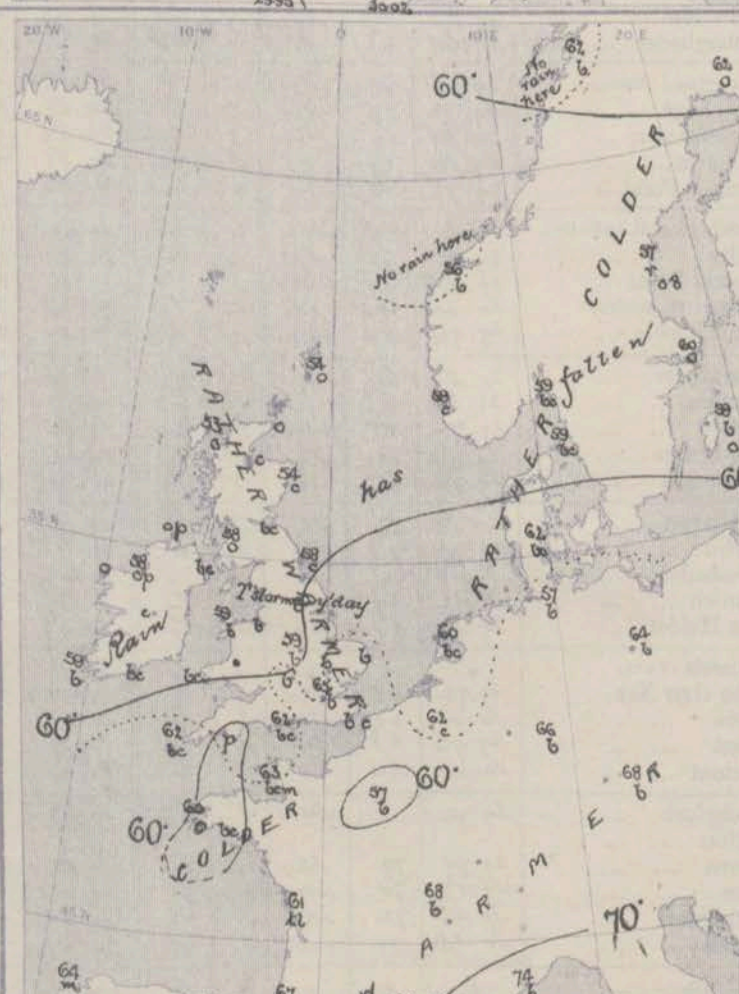
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of August.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	57.9	48.5	53.8	52.0	3.21
Stornoway	58.5	49.0	55.2	53.3	3.57
Wick	61.1	48.5	55.2	53.2	2.35
Nairn	63.4	50.2	55.6	52.7	2.81
Aberdeen	63.1	50.2	56.7	53.6	3.13
Leith.....	65.8	61.4	57.6	54.6	2.62
Shields	63.5	52.3	57.5	54.9	2.81
York	58.1	51.4	58.0	55.3	2.47
Loughborough	70.5	52.1	59.9	57.4	2.61
Ardrrossan	64.0	53.1	57.3	54.9	4.08
Donaghadee	61.8	52.0	57.0	55.5	2.99
Holyhead	64.3	55.0	58.5	56.4	2.89
Liverpool	65.7	54.3	58.7	55.5	2.70
Parsonstown	66.2	54.7	57.6	55.7	3.48
Valencia	65.0	54.1	59.4	57.0	4.65
Roche's Point	65.6	53.9	59.0	56.4	2.91
Pembroke	63.7	55.8	58.0	56.6	2.45
Seilly	64.9	57.2	61.1	59.1	2.26
Jersey	69.0	57.4	63.1	60.0	2.31
Hurst Castle	68.1	56.1	61.2	59.1	2.03
Dover	67.1	57.2	62.6	59.0	2.20
LONDON	71.8	53.7	61.4	57.8	2.33
Oxford	69.2	53.4	59.2	56.4	2.25
Cambridge	71.3	52.1	60.2	57.3	2.17
Yarmouth	66.4	55.1	60.8	57.9	

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.1 ins. and upwards in an anticyclone lying over the central and southern part of Germany.
Lowest 29.4 ins. and less in a depression lying to the northward of the Shetlands, 29.5 ins. and less in another disturbance over the Gulf of Bothnia.
Gradients moderate over northwest Europe, but slight in the southwest and south.

TEMPERATURE

Barometer falling in Sweden, and also in Spain and the south of France, but rising elsewhere.
Highest 74° at Nice, 68° at Munich, Lyons and Perpignan, 67° at Biarritz and 66° at Cape Gris-Nez, & Elsiebden.
Lowest 53° at Stormoway, 54° at Sunbrough Head and Aberdeen, 55° at Wick and Parsonstown and 56° at Christiansund, Naicin, Donaghadee, Belmullet and Prawle Point.
The highest maxima registered over our Islands yesterday were 68° in London and at Cambridge, and 67° at Edinburgh.

WIND

NW⁴ in the extreme north and northwest of our Islands, but SW² in all other parts of the Kingdom, as well as on the eastern shores of the North Sea; light to fresh in force generally.
SE² in the north of Scandinavia; E² in the west and south of France, N² at Corunna and Lisbon.

WEATHER

Fine over the greater part of western Europe, but dull in the extreme north and northwest of our Islands, as well as in Sweden and the south of France.
Passing showers are reported in the north of Ireland, and a thunderstorm at Rochefort.
Rain fell yesterday in most parts of NWth Europe, and thunderstorms occurred at Spurn H. and Liverpool.

SEA

Rough at Corunna and rather rough at Skudesnaes, Skagen and Pembroke, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

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

DISTRICTS.

FORECASTS.

DISTRICTS.

FORECASTS.

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

NONE ISSUED

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

NONE ISSUED

WARNINGS

NONE ISSUED

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	60	53	S	8	C	1		Holyhead ...	29.70	61	55	SW	4	3
Sumburgh Head ...	29.23	59	55	W	2	C	4		Valencia ...	29.74	63	59	W	5	5
Stornoway ...	29.20	56	53	SW	3	P	3		Scilly ...	29.51	63	59	W	4	3
Aberdeen ...	29.40	61	53	SW	4	O	4		Jersey ...	29.55	65	57	W	6	5
Shields ...	29.53	62	55	W	4	C	2		Dungeness ...	29.72	65	59	W	8	6
Ardrossan ...	29.51	59	55	W	4	C	3		London ...	29.81	64	56	W	5	4
Malin Head ...	29.47	59	55	W	6	O	4		Yarmouth ...	29.72	63	56	W	5	3
Mullaghmore ...	29.59	60	54	SW	5	af	4		Rocheport ...	30.12	73	68	W	4	3
Belmullet ...	29.60	60	54	W	5	bc	*								

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

Weather fine and bright over the whole of central and southern Europe, but varying greatly in other localities. Showery in many parts of the United Kingdom and rainy in the extreme north of Scotland, as well as at St Petersburg and Nicolaisoff. Considerable improvement taking place over the south of England later in day, but thunderstorms occurring at Spurn Head and Liverpool. Lightning seen at some of the French stations in evening.

Temperature highest 86° at Aumale, 82° at Brindisi, Palma and La Calle, and 80° at Tunis and Malton, above 70° in nearly all parts of southern and eastern Europe. Lowest 52° at Aberdeen, Shields, Liverpool and Parsonstown, and 53° at Sumburgh Head, Loughborough, Malin Head and Donaghadee, below 60° in all but the southeastern parts of the United Kingdom. Daily maxima below 70° over the whole of our Islands, but thermometer exceeding 80° in most parts of central and southern Europe, and exceeding 90° at some of the Spanish, Italian and Algerian stations. Highest readings of all 106° at Biskra, 102 at Cape Bon and 100° at Aumale and Laghouat.

Wind SW over the greater part of northwestern Europe, but SE or E in the west of Norway, strong to a gale in force over the English Channel, and also in the south of Scandinavia. Light or moderate from the S and in Germany, and from the N or NW in Italy, variable over Austria, Spain, Algeria and the south of France. Subsequently increasing to a gale from the SW on some parts of the Danish coasts. Little change occurring elsewhere.

Barometer highest 30.1 ins. to 30.2 ins. or rather more in an anticyclone lying over Austria, S Germany, Switzerland & the SE of France, and also in three smaller systems lying over Spain and the W part of the Mediterranean. Lowest 29.1 ins. and less in a depression lying off the N. of Scotland, shallow secondary disturbances passing across Ireland and England. Depressions in N. subsequently travelling away from us, but shallow disturbances appearing and central spring.

General remarks on the weather for the 24 hours.
Ending at 8 am on 16th Aug 1890.

Weather cloudy or overcast in nearly all parts of northwestern, northern and central Europe, with rain in the north of our Islands, and passing showers in the south. Fine in all the more southern and eastern countries, and also in the southwest of the United Kingdom. Heavy rain falling during day in Scandinavia and the north of Scotland, and thunderstorms occurring at Aberdeen and Valencia Island. Lightning seen at Liverpool at night.

Temperature highest 83° at La Calle and Tunis, 82° at Aumale, 81° at Brindisi, and 80° at Lesina, above 70° in most of the southern and eastern countries, and reaching 65° at Helsingfors and Moscow. Lowest 50° at Malin Head 53° at Stornoway and Naïm, and 54° at Aberdeen, Belmullet and Mullaghmore, below 60° in most parts of the United Kingdom. Thermometer subsequently rising to 70° or a little more in the east and southeast of England, to 80° or more over southern Europe generally, and to 90° or more in Algeria and isolated parts of Spain and Italy. Highest readings of all 106° at Biskra, and 99° at Aumale and Laghouat.

Wind strong from the W in Ireland, and from the SW over England, the Netherlands, Denmark, the Baltic and the north of France, with a gale in the Channel. Strong from the S in the south of Scandinavia, light from the E or SE in the north and east of Scotland. Light from E. also over Russia and the Adriatic; moderate from the NE in Spain and the south of France; S. at most of the Algerian stations. Subsequently increasing to a gale from the S in the south of Norway.

Barometer highest 30.1 ins. and upwards in an anticyclone lying over Spain and the S part of France and Germany, also in another system lying over the south of Russia. Lowest 29.0 ins. and less in a deep depression lying over the SW of Scotland; 29.6 ins. and less in a shallower but well marked system lying over the southern part of the Gulf of Bothnia. Former disturbance subsequently travelling in a N. E. direction across Scotland, latter system partially dispersing.

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 18th. August. 1890.

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

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

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.			BAROMETER.		SHADE TEMP.			WIND.					SHADE TEMP.		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 ...																		
Hernösand ...																		
Stockholm ...																		
Wishby ...																		
Bodö ...	29.50	64	E	2	C	29.47	-11	53	52	-9	SW	6	T	3	64	52	1.34	
Christiansund	29.54	59	E	2	0	29.57	+0.8	57	54	+1	W	2	C	2	66	54	-	
Skudesnaes ...	29.62	56	SW	6	7	29.73	+1.2	57	53	-2	W	4	0	4	59	54	0.07	
Christiania Fjord (Færd)	29.77	60	SW	7	0	29.76	+0.9	61	58	+2	W	7	bc	4	63	59	0.04	
Skagen (The Scaw)	29.84	58	SW	3	6	29.85	+0.7	58	56	-1	W	1	6	2	66	54	-	
Fanö ...	29.91	58	SW	4	6	29.89	-0.2	66	64	+4	W	1	6	2	66	57	-	
BRITISH ISLANDS.																		
Sumburgh Head	29.46	53	W	1	0	29.57	+1.8	53	53	-1	W	2	T	3	59	49	0.12	
Stornoway ...	29.66	53	W	4	7	29.78	+2.8	50	50	-1	W	3	T	3	56	42	0.42	
Wick ...	29.53	52	W	3	7	29.74	+2.6	53	51	-2	W	3	0	1	56	49	0.12	
Nairn ...	29.63	57	SW	1	0	29.77	+2.9	54	51	-2	W	3	C	1	59	51	0.06	
Aberdeen ...	29.65	58	W	1	C	29.81	+2.7	53	51	-1	SW	1	om	3	64	51	0.10	
Leith ...	29.68	61	W	3	6	29.82	+2.7	57	52	0	W	3	bc	2	66	45	-	
Shields ...	29.74	64	SW	2	bc	29.83	+1.6	54	53	-4	SW	1	om	2	66	50	-	
Spurn Head ...	29.82	65	SW	3	bc	29.86	+0.3	57	53	-3	W	1	bc	2	68	54	0.01	
York ...	29.81	65	W	4	6	29.87	+0.7	55	53	-6	SW	1	bc	2	68	49	-	
Loughborough	29.87	65	W	2	bc	29.89	0.0	56	53	-3	SW	1	om	2	70	50	0.01	
Ardrossan ...	29.74	58	W	3	C	29.83	+1.2	57	53	-1	SW	2	bc	1	60	49	0.09	
Malin Head ...	29.78	57	W	3	0	29.86	+1.2	54	52	-2	W	3	bc	3	58	52	0.03	
Mullaghmore ...	29.82	57	W	4	C	29.88	+1.0	56	53	-2	W	2	C	3	62	52	-	
Belmullet ...	29.84	57	W	2	6	29.91	+1.4	56	53	0	W	2	0	2	59	49	0.05	
Donaghadee ...	29.80	56	SW	2	C	29.87	+1.6	57	53	+1	SW	2	m	0	57	54	0.11	
Liverpool (Bidston)	29.83	60	W	3	bc	29.86	+0.5	58	54	-2	SW	1	C	2	66	52	-	
Holyhead ...	29.83	59	SW	5	C	29.85	+0.4	59	57	0	SW	1	com	2	64	53	-	
Parsonstown ...	29.73	62	2	0	C	29.88	+0.7	54	52	-1	2	0	0	1	65	52	0.02	
Valencia ...	29.87	61	W	1	6	29.88	+0.1	57	53	-2	2	0	6	3	64	49	-	
Roche's Point...	29.86	60	W	4	C	29.87	+0.1	57	54	0	W	1	bc	3	63	53	0.25	
Pembroke (St. Ann's Hd.)	29.88	60	SW	3	bc	29.87	-0.1	61	59	+2	SE	2	bc	2	62	56	-	
Scilly ...	29.91	62	W	2	bc	29.85	-1.0	63	59	+1	SE	2	bc	2	67	56	-	
Prawle Point ...	29.92	59	W	3	C	29.87	-1.1	62	60	+6	NW	3	bc	1	64	57	0.02	
Jersey (St. Aubin's)	29.95	63	W	3	C	29.86	-1.7	63	57	0	NW	3	bc	3	67	56	-	
Hurst Castle ...	29.94	62	SW	4	6	29.87	-1.3	62	60	0	ENE	2	bc	2	66	54	0.01	
Dungeness ...	29.94	64	W	2	6	29.85	-1.5	57	56	-5	2	0	T	0	67	53	0.10	
London ...	29.90	66	SW	2	bc	29.87	-1.0	57	53	-6	2	0	m	2	72	53	-	
Oxford ...	29.91	60	SW	2	6	29.85	-0.5	56	54	-4	ENE	1	bc	2	67	53	0.01	
Cambridge ...	29.87	67	SW	1	C	29.87	-0.7	56	53	-4	SW	1	0	2	71	50	-	
Yarmouth ...	29.85	66	SW	4	6	29.86	-0.6	61	59	+1	2	0	C	2	70	53	-	
GERMANY & HOLLAND.																		
Cuxhaven ...	30.00	62	W	2	6	29.92	-0.7	62	60	+5	SE	1	bc	2	67	56	-	
Berlin ...	29.97	73	2	0	6	29.82	-0.1	70	66	-6	NW	2	C	2	79	64	-	
Wiesbaden ...						29.91	-1.6	68	64	+2	W	1	6	2	81	63	0.08	
Munich ...	30.03	68	N	1	6	29.92	-1.5	70	65	+2	8	1	6	2	79	59	0.04	
The Helder ...	29.93	59	SW	1	6	29.88	-0.8	61	56	+1	SE	1	C	1	66	54	-	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.)																		
Cape Gris Nez	29.93	60	W	1	bc	29.88	-1.1	57	53	-9	N	3	T	3	66	53	0.08	
Paris ...	29.91	63	N	1	0	29.83	-2.1	61	60	+4	NW	2	0	2	72	57	0.08	
Brest ...	29.92	64	N	2	0	29.84	-1.6	54	53	-7	N	2	bc	2	73	50	-	
Lorient ...	29.90	65	N	2	bc	29.82	-2.1	57	53	-1	N	3	C	2	70	53	-	
Rocheport ...	29.89	79	N	1	6	29.84	-2.3	65	62	+4	N	3	bc	2	88	61	-	
Belfort ...	29.91	80	SW	1	bc	29.89	-1.9	66	60	+8	W	1	bc	2	82	59	-	
Lyons ...	29.87	80	8	1	C	29.85	-1.9	76	62	+8	SW	5	6	2	86	60	-	
Nice ...	29.95	78	E	4	bc	29.99	-0.5	76	64	+2	N	4	6	2	88	60	-	
Perpignan ...	29.87	76	SE	2	6	29.94	-0.8	77	67	-1	2	0	0	3	84	64	-	
Biarritz ...	29.73	82	SE	4	6	29.82	-1.3	76	66	+3	2	0	0	3	86	64	0.04	
PENINSULA.																		
Corunna ...																		
Lisbon ...	29.92	68	NW	3	6	29.96	-0.2	65	63	+4	W	3	C	2	77	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

Monday, 18th August,

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:

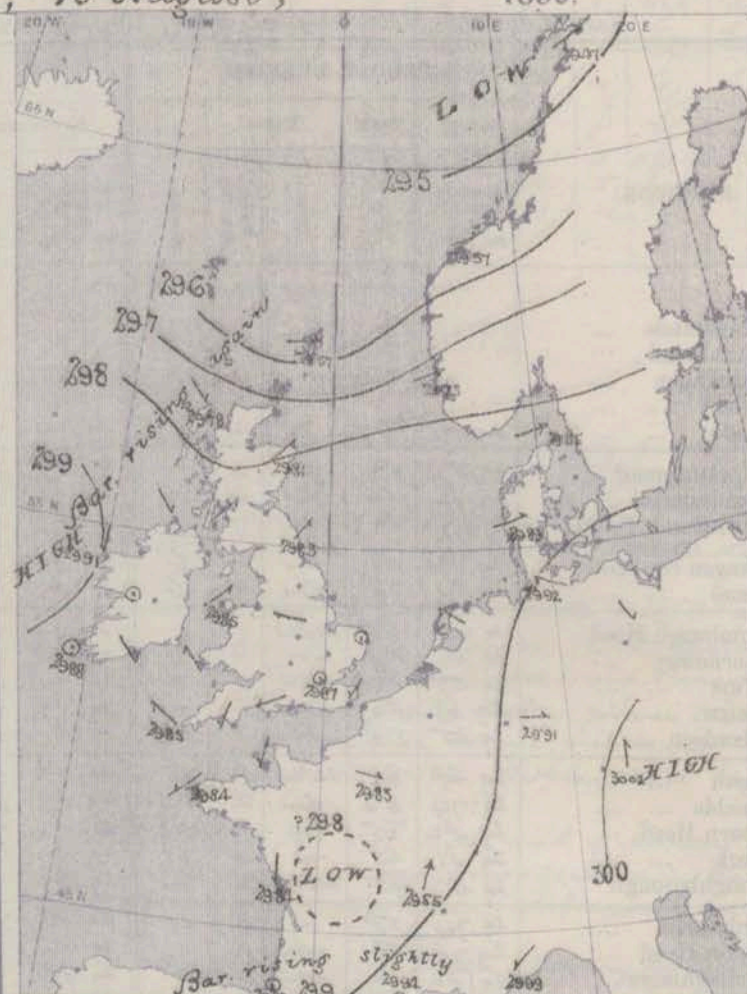
■ = Rough. ■ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumbargh Head	29.703
Stornoway	29.802
Wick	29.813
Nairn	29.827
Aberdeen	29.835
Leith	29.852
Shields	29.875
York	29.907
Loughborough	29.926
Ardrossan	29.860
Donaghadee	29.877
Holyhead	29.904
Liverpool	29.903
Parsonstown	29.919
Valencia	29.922
Roche's Point	29.922
Pembroke	29.921
Scilly	29.958
Jersey	29.976
Hurst Castle	29.960
Dover	29.950
LONDON	29.952
Oxford	29.943
Cambridge	29.934
Yarmouth	29.929



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.

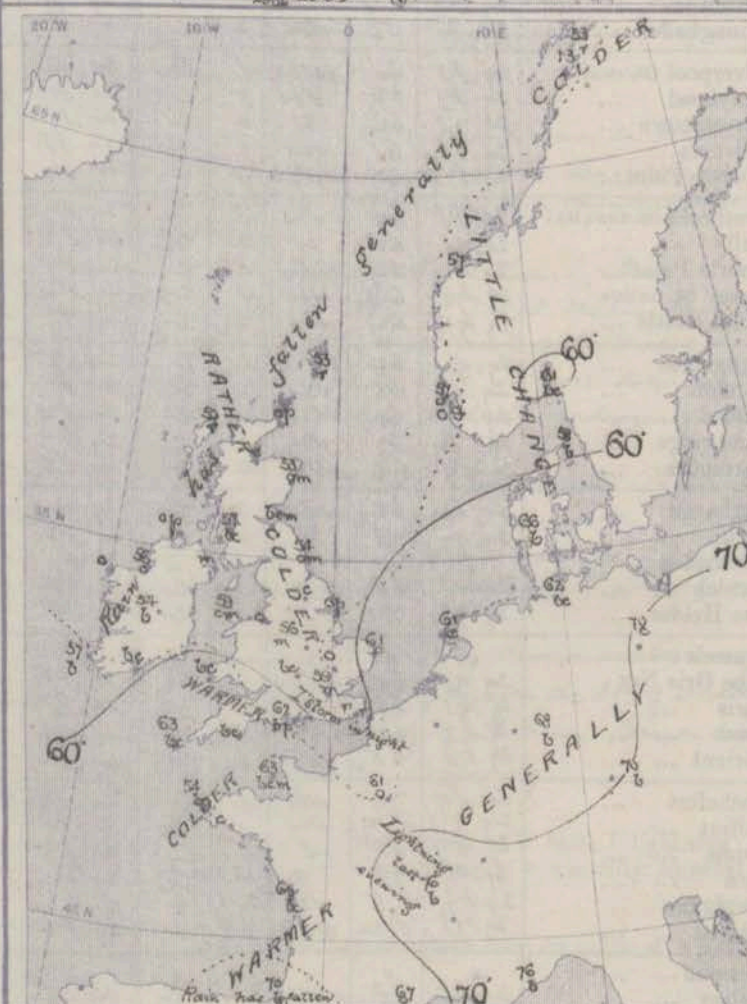
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of August.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumbargh Head.....	57.9	48.5	53.8	52.0	3.21
Stornoway	58.5	49.0	55.2	53.3	3.37
Wick	61.1	48.5	55.2	53.2	2.55
Nairn	63.1	50.2	55.6	52.7	2.81
Aberdeen	63.1	50.2	55.7	53.6	3.13
Leith	65.8	51.4	57.6	54.6	2.62
Shields	63.5	52.3	57.6	54.9	2.81
York	68.1	51.4	58.0	55.3	2.47
Loughborough	70.5	52.1	59.9	57.4	2.61
Ardrossan	64.0	53.1	57.3	54.9	4.08
Donaghadee.....	61.8	52.0	57.0	55.5	2.99
Holyhead.....	64.3	55.0	58.5	56.4	2.89
Liverpool.....	65.7	51.3	58.7	55.5	2.79
Parsonstown	66.2	51.7	57.6	55.7	3.45
Valencia	65.0	54.1	59.4	57.0	1.65
Roche's Point	66.6	53.9	59.0	56.4	3.59
Pembroke.....	63.7	53.8	58.9	56.6	2.91
Scilly	64.9	57.2	61.1	59.1	2.46
Jersey	69.0	57.4	63.1	60.0	2.26
Hurst Castle	68.1	56.1	61.2	59.1	2.31
Dover	67.1	57.2	62.6	59.0	2.08
LONDON	71.8	53.7	61.4	57.8	2.20
Oxford	69.2	53.4	59.2	56.4	2.33
Cambridge	71.3	52.1	60.2	57.3	2.25
Yarmouth	66.4	55.1	60.8	57.9	2.17

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; and upwards, over South Germany; 29.9 ins; and upwards, in the extreme west of Ireland.

Lowest, 29.5 ins; and less, in a shallow depression lying off the northwest of Norway.

Gradients slight. Barometer rising in all the more northern parts of the United Kingdom, but falling elsewhere, most in France.

TEMPERATURE

Highest, 76° at Lyons and Nice, 70° at Berlin, Munich and Vienna, 68° at Wiesbaden, and 67° at Perpignan.

Lowest, 50° at Stomoway, 53° at Hobo, Lumbagh, W. Wick, and Aberdeen, and 54° at Harin, Birkla, Malin Head, and Portmorton.

The highest maxima registered over our Islands yesterday were 71° in London, 71° at Cambridge, and 70° at Loughborough and Yarmouth.

WIND

Light or moderate from the West (SW to NW) over the northern part of the United Kingdom; strong from the SW at some of the Norwegian stations.

Light and variable over the eastern and central parts of the United Kingdom and also in Germany.

E or NE over the south of England and the north and west of France.

WEATHER

Fine in the southwest of our Islands and also in Denmark, Germany, and the greater part of France.

Cloudy elsewhere, with rain in the Shetlands and Orkneys, as well as at Hobo, and passing showers in the southeast of England.

Lightning was seen in London and also at Lyons, and a thunderstorm occurred at Pungtore during the night.

SEA

Slight or smooth generally.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The distribution of pressure is now becoming very irregular. A shallow depression is lying over Central France and is inclined to spread northwards, so that unsettled thundery weather is probable over our southern districts.

FORECASTS

For the 24 hours ending at NOON on 19th August 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 W^{ly}; cloudy, some showers.

Same as No 5

E^{ly} and NE^{ly} winds, light; cloudy, some rain, thunder locally.

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.

Light variable breezes; fair generally, but local showers.

NE^{ly} winds, light; fair generally, but local showers.

Light breezes, chiefly N^{ly}; fair generally, but local showers.

WARNINGS

NONE ISSUED

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.63	58	56	SW	6	7	5		Holyhead ...	29.64	62	58	SW	5	4
Sumburgh Head ...									Valencia ...						
Stornoway ...	29.61	58	53	NW	4	0	4		Scilly ...						
Aberdeen ...									Jersey ...	30.00	67	59	SW	3	3
Shields ...									Dungeness ...	29.58	66	58	WSW	4	3
Ardrossan ...									London ...						*
Malin Head ...	29.75	57	53	NW	4	C	3		Yarmouth ...						
Mullaghmore ...									Rochefort ...	29.50	79	75	NNE	4	?
Belmullet ...	29.83	58	56	NW	1	0	*								

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

Weather in morning dull in Finland, Sweden and the extreme north and northwest of our Islands, as well as in Spain, western Algeria and the southwest of France; rain falling at Hernösand and passing showers in the north of Ireland; thunderstorm reported at Rochefort. Fine and bright in nearly all other parts of Europe, showers falling during day at several of the Irish and Scotch stations; lightning seen in London & Lyons in evening; thunderstorms occurring at Dungeness, at night.

Temperature very high in Algeria and the central and southern parts of the Mediterranean; Annaba 90°, La Calle 88°, Palma 83°, and Biscaya and Tunis 82°; above 70° in nearly all parts of southern and eastern Europe. Lowest 53° at Stornoway, 54° at Sumburgh Head and Aberdeen, and 55° at Wick and Parsonstown, below 60° in many parts of the United Kingdom. Subsequently rising to 70° or a little above in our Midland and southeastern Counties, to 80° or more in some parts of Germany, and to 85° or more in France.

Wind SW^{ly} over the greater part of the United Kingdom and also over the Netherlands, Denmark the Baltic and the south of Scandinavia; strong in force in the region last mentioned, with a gale at Ulsby. Moderate from the NW^{ly} in the extreme north and northwest of our Islands; SE^{ly} in the west of Norway. Cyclonic circulation of light winds reported over Spain and the neighbouring countries; variable breeze over Italy and central Europe. No important change occurring during day.

Barometer highest 30.1 ins. and upwards in an anticyclone covering a large portion of Germany, Austria and the south of Russia. Lowest 29.4 ins. and less in a shallow depression lying to the northwest of the Shetlands; 29.5 ins. and less in a deeper disturbance over the southern part of the Gulf of Bothnia. Shallow system with readings apparently below 29.9 ins. lying over the north of Spain in morning, and subsequently moving slowly in a northeasterly direction towards France.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 10TH TO 16TH AUGUST 1890.

The weather of the past week has been very changeable and unsettled, with heavy falls of rain in many parts of the Kingdom, and thunderstorms locally.

At the beginning of the period the barometer was highest over Scandinavia and lowest in a large and irregularly formed depression the centre of which lay off our southwest coasts. E^{ly} winds were consequently reported generally, with fine weather in the northern parts of the Country, but with thunderstorms and heavy rain in the south. During the 10th and 11th the depression moved first in a northerly direction over our more central districts and afterwards in an easterly direction to the North Sea and Denmark, where it gradually dispersed. Its progress was attended by an extension of thundery weather, with heavy falls of rain in most parts of England, but in the rear of the disturbance the wind shifted to the W^{ly} or NW^{ly} and the weather improved. During the night of the 12th, however, when a small cyclonic system was formed off the northeast coasts of Great Britain some very heavy falls of rain were measured in the north of England and the southeast of Scotland.

On the 14th the wind began to back to the SW^{ly} again, and in the course of the ensuing night a deep depression advanced to the southwest of Scotland from the Atlantic, the disturbance occasioning heavy rain in the north of Ireland and fresh to strong SW^{ly} gales on many parts of our west and south coasts. On the 15th the centre of the system travelled away to the north of our Islands, but numerous secondary disturbances passed E^{ly} across our Islands, and squally showery weather continued to prevail generally.

Temperature has been below the average, especially in the western and northern parts of the Kingdom, where the daily maxima have been frequently below 65°, and sometimes below 60°. Over England the thermometer has seldom exceeded 70°.

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 19th August. 1890.
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.																		
STATIONS.		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.	
		Barom. Reading at 32° F. and Sea Level.	Temp. Dry.	WIND.		Weather.	Barometer.		SHADE TEMP.			WIND.			Sea. (0 to 12.)	SHADE TEMP.		Amount of Rainfall.
				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 ...	+	29.72	59	SW	2	0	29.69		59	57		SW	2	0	*	60	52	—
Hernösand ...	+	29.72	58	S	2	0	29.63		57	54		SW	2	0	*	60	52	—
Stockholm ...	+	29.85	58	S	2	0	29.75		61	59		2	0	fb	*	70	52	—
Wisby ...	+	29.83	59	S	2	0	29.78		61	61		SW	3	fb	*	60	54	—
Bodö ...		29.65	54	SW	4	0	29.61	+14	54	50	+1	SW	1	b	1	54	48	0.32
Christiansund		29.64	58	NNE	2	C	29.60	+03	57	54	0	S	2	0	2	61	55	—
Skudesnaes ...		29.79	55	SW	2	0	29.75	+02	57	54	0	WNW	4	0	3	?	54	0.08
Christiania Fjord (Færder)		29.77	60	SW	6	0	29.71	-05	60	53	-1	SW	3	b	2	63	59	—
Skagen (The Seaw)		29.80	59	2	0	0	29.75	-10	57	53	-1	N	1	b	2	66	52	—
Fanö ...		29.84	55	WNW	1	b	29.78	-11	55	55	-11	NNW	1	0	*	66	52	—
BRITISH ISLANDS.																		
Sumburgh Head		29.69	52	W	3	0	29.74	+17	52	50	-1	WNW	1	C	3	55	47	0.02
Stornoway ...		29.81	53	NW	3	C	29.84	+06	53	52	+3	SW	3	0	3	57	45	0.04
Wick ...		29.82	52	NW	4	0	29.83	+09	54	52	+1	NW	3	b	1	54	45	0.10
Nairn ...		29.87	54	SW	1	C	29.87	+10	53	50	-1	N	1	b	1	57	47	0.08
Aberdeen ...		29.86	53	NW	1	C	29.90	+09	53	51	+2	SW	1	C	2	60	49	0.02
Leith ...		29.85	60	W	1	C	29.90	+08	60	54	+3	NNE	1	b	*	65	48	—
Shields ...		29.85	59	SE	2	C	29.90	+07	56	53	+2	SE	1	C	2	64	49	0.02
Spurn Head ...		29.84	60	ENE	2	b	29.85	-01	58	53	+1	NNW	3	b	2	64	54	—
York ...		29.85	58	E	1	C	29.89	+02	51	51	-4	ENE	1	f	*	67	44	0.02
Loughborough		29.85	66	SE	1	C	29.81	-01	53	54	-1	NE	2	omw	*	72	49	—
GERMANY & HOLLAND.																		
Ardrossan ...		29.86	60	WNW	3	b	29.89	+06	57	54	0	2	0	om	0	62	55	—
Malin Head ...		29.51	56	N	3	0	29.92	+06	57	53	+3	WNW	3	b	2	59	53	—
Mullaghmore ...		29.51	58	NNW	5	b	29.95	+07	56	52	0	2	0	bw	0	61	48	—
Belmullet ...		29.95	58	N	2	b	29.97	+06	53	52	-1	W	2	0	*	60	44	—
Donaghadee ...		29.90	57	NNE	3	b	29.90	+03	56	53	-1	NNW	4	b	2	59	54	—
FRANCE AND BELGIUM.																		
Liverpool (Bidston)		29.87	60	NNW	1	C	29.87	+01	57	54	-1	N	1	bm	2	65	53	—
Holyhead ...		29.87	58	NNE	2	b	29.89	+04	59	53	0	N	3	bw	2	65	55	—
Parsonstown ...		29.87	60	2	0	b	29.96	+08	52	51	-2	NW	1	0	*	64	47	—
Valencia ...		29.51	63	NNE	1	C	29.99	+11	56	53	-1	NNE	1	b	1	65	49	—
Roche's Point...		29.88	60	W	1	C	29.92	+05	54	51	-3	N	3	b	3	64	50	0.05
Pembroke (St. Ann's Id.)		29.86	58	N	2	b	29.85	-02	57	56	-4	NNW	4	b	2	63	58	—
Scilly ...		29.85	60	NNW	2	0	29.81	-04	59	59	-4	N	4	r	1	64	53	0.34
Prawle Point ...		29.80	60	N	3	C	29.80	-07	57	56	-5	NNW	4	0	2	65	55	0.04
Jersey (St. Aubin's)		29.78	66	N	3	C	29.80	-06	63	59	0	WNW	3	b	3	67	58	0.22
Hurst Castle ...		29.82	64	WNW	2	C	29.79	-08	57	57	-5	NE	1	om	1	70	56	0.35
GERMANY & HOLLAND.																		
Dungeness ...		29.80	64	NNE	3	b	29.75	-10	61	60	+4	NE	5	0	3	66	57	0.50
London ...		29.80	57	E	1	C	29.80	-07	57	55	-2	NE	1	OT	*	71	55	0.04
Oxford ...		29.83	60	NNW	1	C	29.83	-06	56	54	0	NNW	3	0	*	71	52	—
Cambridge ...		29.84	65	NE	1	C	29.84	-03	58	57	+2	NE	1	0	*	71	49	—
Yarmouth ...		29.84	63	NE	2	b	29.80	-06	59	58	-2	NE	4	r	4	64	58	0.06
GERMANY & HOLLAND.																		
Cuxhaven ...		29.85	60	NE	3	b	29.74	-18	60	59	-2	NE	4	r	*	66	55	0.68
Berlin ...		29.82	77	2	0	b	29.75	-03	70	67	0	SW	4	C	*	84	66	—
Wiesbaden ...		29.82	77	2	0	b	29.85	-06	70	66	+2	SW	1	C	*	82	64	0.16
Munich ...		29.97	72	SE	2	b	30.04	+02	68	64	-2	SE	3	b	*	84	61	—
The Helder ...		29.84	61	NE	1	C	29.74	-14	66	55	+5	NE	2	0	3	?	57	0.12
FRANCE AND BELGIUM.																		
Brussels (9 a.m.)		29.81	61	NNE	4	b	29.78	-15	64	62	+5	SW	4	C	*	76	61	0.04
Cape Gris Nez		29.80	61	NNE	4	b	29.69	-15	62	55	+5	2	0	0	2	66	55	0.43
Paris ...		29.78	78	NNW	2	b	29.81	+05	62	59	+1	SW	3	C	*	82	60	—
Brest ...		29.77	59	NW	3	r	29.78	-06	57	56	+3	NW	3	b	2	73	48	0.35
Lorient ...		29.76	61	NW	5	C	29.82	0.0	61	58	+4	W	4	C	3	70	55	0.20
FRANCE AND BELGIUM.																		
Rochefort ...		29.84	72	W	4	C	29.58	+14	67	63	+2	SW	4	b	?	82	59	—
Belfort ...		29.76	83	S	4	b	29.72	+08	70	65	-6	?	1	0	*	88	58	0.04
Lyons ...		30.01	75	S	0	C	29.99	0.0	76	61	0	ENE	2	C	0	86	66	—
Nice ...		29.86	82	N	4	0	29.92	-02	73	69	+6	2	0	0	*	89	?	0.08
Perpignan ...		29.88	69	NNW	6	0	29.95	+13	66	64	-4	ENE	2	b	2	84	64	—
Biarritz ...		29.88	69	NNW	6	0	29.95	+13	66	64	-4	ENE	2	b	2	84	64	—
GERMANY & HOLLAND.																		
Corunna ...		30.02	66	WNW	3	b	30.06	+10	64	60	-1	2	0	b	6	72	59	—
Lisbon ...		30.02	66	WNW	3	b	30.06	+10	64	60	-1	2	0	b	6	72	59	—

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

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

1890.

EXPLANATION OF MAP

Changes since previous morning are stated in words.

their barbs and feathers refer to force thus—

\longrightarrow = forces above 10 ; \longrightarrow = forces 8 to 10 ;

→ = forces 5 to 7 : → = forces 1 to 4.

⊙ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

 = Rough.  = High.

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

During the 15 Years: 1871—1885.

Hand-drawn weather map of Europe and the North Atlantic, showing a low-pressure system (L) moving from the Atlantic towards Europe. The map includes isobars with values like 29.6, 29.7, 29.8, 29.9, 30.0, and 30.1. Handwritten notes describe the barometer's behavior: "Bar. falling again", "Bar. falling", "Bar. rising", and "Bar. falling again". Other notes include "slightly", "slowly", "rising", and "again". The map also shows latitude and longitude lines, and the names of the Atlantic Ocean and the North Atlantic.

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.

(For the month of August.)

[illegible]

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.0 ins. and upwards over the western parts of the Iberian Peninsula (apparently) to the W. of Ireland.
Lowest 29.6 ins. and less in a large depression lying off the W. of Norway 29.7 ins. and less in a small system lying near the Strait of Dover.
Gradients slight and irregular. Barometer rising in the west and north of our Islands, and also in France and south Germany, but falling elsewhere.

TEMPERATURE

Highest 76° at Nice, 73° at Perpignan, 70° at Berlin, Wiesbaden and Lyons, 68° at Munich, and 67° at Rochefort.
Lowest 51° at York, 52° at Lumburgh Head and Parsonstown, 53° at Harlowing & Nairn, & 54° at Bodø, Ullrich, and.
The highest maxima registered over our Islands yesterday were 72° at Loughborough and 71° at Roches Point, Colford, Cambridge and in London.

WIND

Light from the Wnd or SWnd in the north of Scotland, and also in the south of Scandinavia.
Nnd in the west of our Islands, NEnd in the east and south, with a fresh breeze at Dungoness.
SWnd over Belgium and the north of France, variable in the south of France.

WEATHER

Fine in the western and northern parts of the United Kingdom, as well as at some of the French and German stations. Dull elsewhere, with rain in the south and southeast of England, & also at Cuxhaven.
Thunder and lightning have occurred at several of our southern and the French stations.

SEA

Slight or smooth generally.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The small depression in the southeast will probably continue to travel in a northerly or northeasterly direction but its progress is likely to be very slow, and no material improvement is therefore anticipated in the southeast at present.

FORECASTS

For the 24 hours ending at NOON on 20th AUGUST 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 Wnd, fair to showery

NEnd to Nnd winds, light; unsettled, some showers, thunder locally.

NEnd to NWnd winds, light or moderate, unsettled, rain at times, possibly thunder

DISTRICTS.

FORECASTS.

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

Nnd and NWnd winds, light; fair generally.

Nnd to NWnd winds, moderate; changeable, some showers, thunder locally.

Same as Nos 6. and 7.

WARNINGS

None Issued.

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

YESTERDAY'S 2 P.M. REPORTS.

THER: WIND								THER: WIND							
BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA	
Skudesnaes ...	29.78	60	55	WSW	4	c	3	Holyhead ...	29.87	61	58	NNW	1	c	1
Sumburgh Head ...	29.66	54	53	W	3	o	4	Valencia ...	29.50	65	60	NW	2	bc	2
Stornoway ...	29.86	55	55	NW	4	c	4	Scilly ...	29.85	62	58	SE	2	c	2
Aberdeen ...	29.83	58	53	NW	1	op	2	Jersey ...	29.82	67	60	NE	3	bc	3
Shields ...	29.85	58	57	E	2	c	2	Dungeness ...	29.83	66	62	NNW	3	bc	1
Ardrossan ...	29.85	62	57	WNW	3	c	2	London ...	29.83	69	59	E	2	bc	*
Malin Head ...	29.90	58	53	NNW	2	bc	2	Yarmouth ...	29.85	64	62	NE	2	c	2
Mullaghmore ...	29.91	59	55	NNW	4	c	2	Rochefort ...	29.83	76	70	WNW	3	c	?
Belmullet ...	29.54	59	53	NE	1	c	*								

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

Weather fine and bright over eastern, central, southeastern and southern Europe, unsettled, (and in many parts rainy) over the British Islands, North Sea, and Norway. Showers later in most parts of Scotland, and a considerable fall of rain over the southern counties of England, as well as in several parts of France and Germany; thunder and lightning in several localities over the latter region, and air close over the south of England.

Temperature in morning exceeding 80° at the Algerian stations, and exceeding 70° over the Mediterranean, Italy, Switzerland, and the southeast of France; below 60° over the British Islands, Norway, and the northern parts of Sweden. Rising to rather above 70° over the inland parts of England later, and to between 80° and 90° in many parts of France, but not exceeding 72° at Lisbon.

Wind mainly SW¹ and S² over northern Europe and W¹ in Scotland, very variable elsewhere. Anticyclonic over Russia, Austria and Germany, cyclonic over France. Becoming E² over the southeast of England later, NE² over the north of France, but remaining light to moderate in force.

Barometer highest 30.1 ins. and more over Russia, and exceeding 29.9 ins. off the west of Ireland, and over the south of Spain; lowest 29.6 ins. and less to the northward of Scotland and over the northern half of Norway, and below 29.8 ins. in several shallow local depressions lying over the Bay of Biscay, France and northwest Germany. Falling over France and the southeast of England later, rising at our western and northern stations and in Norway.

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 20th August.* 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.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	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 ...	29.55	53	2	0	0	29.41	-1.2	51	51	-8	2	0	7	•	61	51	0.07
	Hernösand ...	29.56	53	2	0	C	29.53	-0.4	56	51	-1	NW	2	6	•	64	52	0.04
	Stockholm ...	29.67	58	SW	2	6	29.69	-0.6	58	54	-3	WNW	2	0	•	70	55	—
	Wisby ...	29.65	61	8	2	T	29.76	-0.2	59	58	-4	W	6	8	•	64	54	0.32
	Bodö ...	29.53	54	NNE	2	T	29.45	-1.6	52	50	-2	N	2	7	1	57	52	0.16
	Christiansund	29.53	53	WNW	7	0	29.60	0.0	55	51	-2	SW	4	C	3	59	52	0.28
	Skudesnaes ...	29.77	54	WNW	2	bc	29.70	-0.5	54	52	-3	SW	4	0	3	61	52	0.04
	Christiania Fjord (Færder)	29.63	61	SW	3	6	29.67	-0.4	57	51	-3	WNW	3	C	2	63	58	—
	Skagen (The Scaw)	29.65	57	W	3	C	29.75	0.0	59	55	+2	W	3	6	3	64	54	—
	Fanö ...	29.84	52	NW	2	6	29.86	+0.8	57	57	+4	WNW	2	C	•	63	50	—
BRITISH ISLANDS.	Sumburgh Head	29.74	54	2	0	T	29.64	-1.0	51	50	-1	2	0	C	0	56	46	0.11
	Stornoway ...	29.75	57	W	2	C	29.71	-1.3	53	52	0	N	3	C	3	58	50	0.02
	Wick ...	29.86	52	NW	3	0	29.67	-1.6	53	53	-1	SW	1	df	1	57	48	0.40
	Nairn ...	29.82	58	WNW	1	bc	29.66	-2.1	56	54	+3	SW	2	bc	1	63	51	—
	Aberdeen ...	29.82	55	8	2	C 2	29.72	-1.8	51	50	-4	SW	1	OTM	2	61	48	0.05
	Leith ...	29.83	61	NNE	1	C	29.76	-1.4	55	52	-5	W	2	cm	•	63	47	0.01
	Shields ...	29.85	60	E	2	C	29.83	-0.7	56	51	0	SW	3	C	2	64	49	—
	Spurn Head ...	29.85	58	ENE	3	bc	29.86	+0.1	58	56	0	WNW	2	bc	2	62	54	—
	York ...	29.80	60	ESE	1	C	29.81	-0.1	57	54	+6	W	1	bc	•	65	49	0.01
	Loughborough	29.85	62	ENE	2	0	29.91	+0.3	52	51	-3	2	0	bcnw	•	67	44	—
GERMANY & HOLLAND.	Ardrossan ...	29.86	57	NW	2	C	29.78	-1.1	55	54	-2	SW	4	0	3	63	50	—
	Malin Head ...	29.87	56	W	3	0	29.78	-1.4	56	54	-1	NW	4	odf	2	62	53	0.02
	Mullaghmore ...	29.93	57	WNW	3	C	29.85	-1.0	56	55	0	WNW	4	omf	2	60	54	0.01
	Belmullet ...	29.95	57	W	3	0	29.91	-0.6	56	54	+1	WNW	2	0	•	60	54	0.05
	Donaghadee ...	29.90	57	NNE	2	bc	29.83	-0.7	53	53	-3	WNW	3	C	2	61	53	0.01
	Liverpool (Bidston)	29.89	58	WNW	2	C	29.89	+0.2	57	53	0	WNW	2	C	2	64	51	—
	Holyhead ...	29.91	56	WNW	2	6	29.89	0.0	57	54	-2	WNW	1	cm	1	60	50	—
	Parsonstown ...	29.94	59	2	0	0	29.90	-0.6	58	53	+3	2	0	0	•	62	48	—
	Valencia ...	30.01	59	NW	2	CT	29.97	-0.2	58	57	+2	NW	1	0	2	63	54	0.03
	Roche's Point...	29.94	61	N	2	bc	29.94	+0.2	57	54	+3	WNW	1	C	3	63	50	—
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.91	58	N	3	6	29.94	+0.9	58	57	+1	WNW	2	6	1	61	52	—
	Scilly ...	29.94	59	NNE	3	C	29.97	+1.6	59	54	0	WNW	3	bc	1	60	54	0.10
	Prawle Point ...	29.81	60	ENE	2	T	29.96	+1.6	60	58	+3	WNW	2	bc	1	64	52	0.10
	Jersey (St. Aubin's)	29.86	63	W	4	cm	29.96	+1.6	60	58	-3	WNW	2	cm	2	67	57	0.30
	Hurst Castle ...	29.83	57	NNE	3	cm	29.92	+1.3	58	57	+1	NW	3	6	1	59	56	0.64
	Dungeness ...	29.83	62	ENE	2	bc	29.84	+0.9	62	58	+1	W	3	C	2	64	59	0.06
	London ...	29.86	57	ENE	2	of	29.87	+0.7	57	57	0	NW	1	om	•	59	56	0.67
	Oxford ...	29.90	58	NNE	1	T	29.91	+0.8	56	54	0	WNW	1	bc	•	60	53	0.67
	Cambridge ...	29.89	59	E	1	T	29.89	+0.5	59	57	+1	N	1	bc	•	64	54	0.11
	Yarmouth ...	29.86	58	ENE	2	C	29.85	+0.5	61	57	+2	NNE	2	C	3	61	53	0.06
PENINSULA.	Cuxhaven ...	29.80	59	NNE	3	bc	29.89	+1.5	60	58	0	E	1	C	•	63	58	0.12
	Berlin ...	29.82	76	2	0	6	29.92	+1.3	71	65	+1	WNW	3	C	•	88	64	—
	Wiesbaden ...	•	•	•	•	•	29.95	+1.0	67	63	-3	SW	1	C	•	79	61	—
	Munich ...	29.95	70	E	3	6	30.02	-0.2	70	63	+2	SE	4	6	•	86	59	—
	The Helder ...	29.87	58	NNE	1	0	29.86	+1.2	60	58	-6	ENE	1	bc	1	61	57	0.39
	Brussels (9 a.m.)	•	•	•	•	•	29.95	+1.7	62	59	-2	SW	3	6	•	73	55	0.04
	Cape Gris Nez	29.82	63	NNE	2	6	29.86	+1.7	61	57	-1	W	4	bc	4	66	55	0.04
	Paris ...	29.81	71	WNW	3	bc	29.97	+0.9	59	56	-3	SW	1	6	•	78	57	—
	Brest ...	29.85	60	NW	3	0	30.02	+1.24	58	56	+1	NW	3	bc	3	73	46	—
	Lorient ...	29.90	61	W	3	0	30.01	+1.19	58	56	-3	NW	3	6	3	64	57	—
FRANCE AND BELGIUM.	Rochefort ...	30.04	68	W	3	bc	30.08	+1.10	64	61	-3	W	3	bc	•	75	59	—
	Belfort ...	29.90	64	W	1	T	29.92	61	58	—	W	1	T	•	•	81	58	0.59
	Lyons ...	29.97	67	NW	4	0	30.06	+1.13	60	59	-10	NW	2	EL	•	80	58	0.24
	Nice ...	29.93	78	WNW	3	6	29.93	-0.6	77	60	+1	2	0	6	2	91	68	—
	Perpignan ...	29.89	73	E	2	0	29.91	-0.1	71	64	-2	N	3	6	•	83	64	—
	Biarritz ...	29.98	69	NNE	5	bc	30.02	+0.7	61	60	-5	SE	3	0	2	75	61	0.43
	Corunna ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Lisbon ...	30.08	64	WNW	4	6	30.10	+0.04	61	58	-3	N	4	6	•	78	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

Wednesday, 20th August,

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

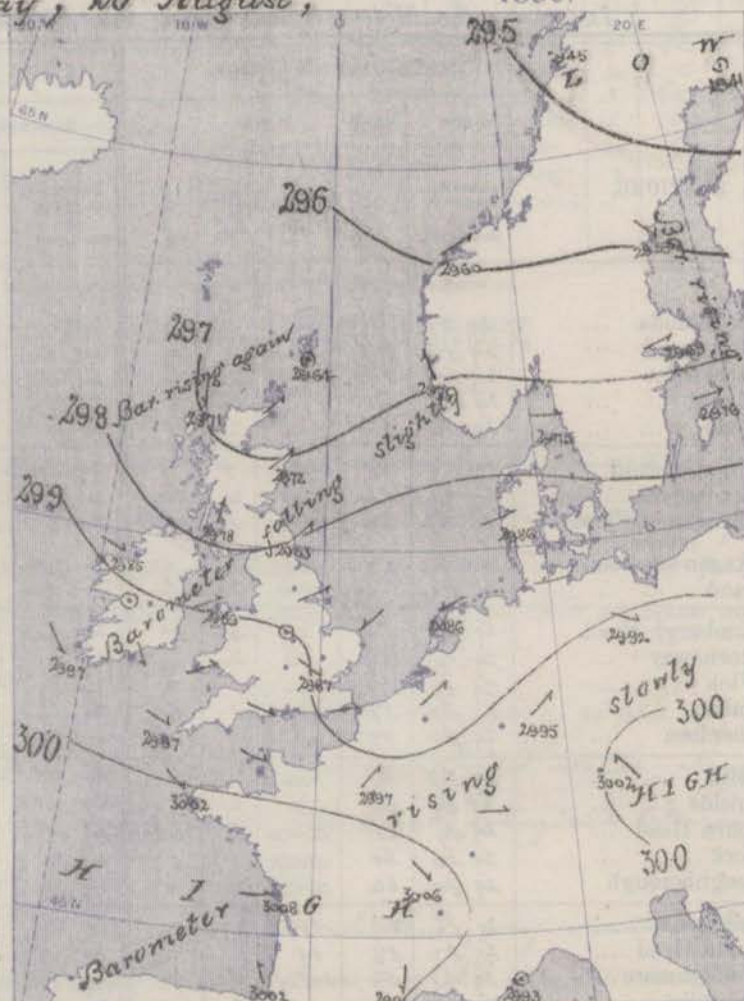
at 8.0 a.m. for the month of August.

During the 15 Years: 1871—1885.

STATIONS.

MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.793
Stornoway	29.802
Wick	29.813
Nairn	29.827
Aberdeen	29.835
Leith	29.852
Shields	29.875
York	29.907
Loughborough	29.925
Ardrossan	29.860
Donaghadee	29.877
Holyhead	29.904
Liverpool	29.903
Parsonstown	29.919
Valencia	29.922
Roche's Point	29.922
Pembroke	29.921
Scilly	29.958
Jersey	29.976
Hurst Castle	29.960
Dover	29.950
LONDON	29.952
Oxford	29.943
Cambridge	29.934
Yarmouth	29.929



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.

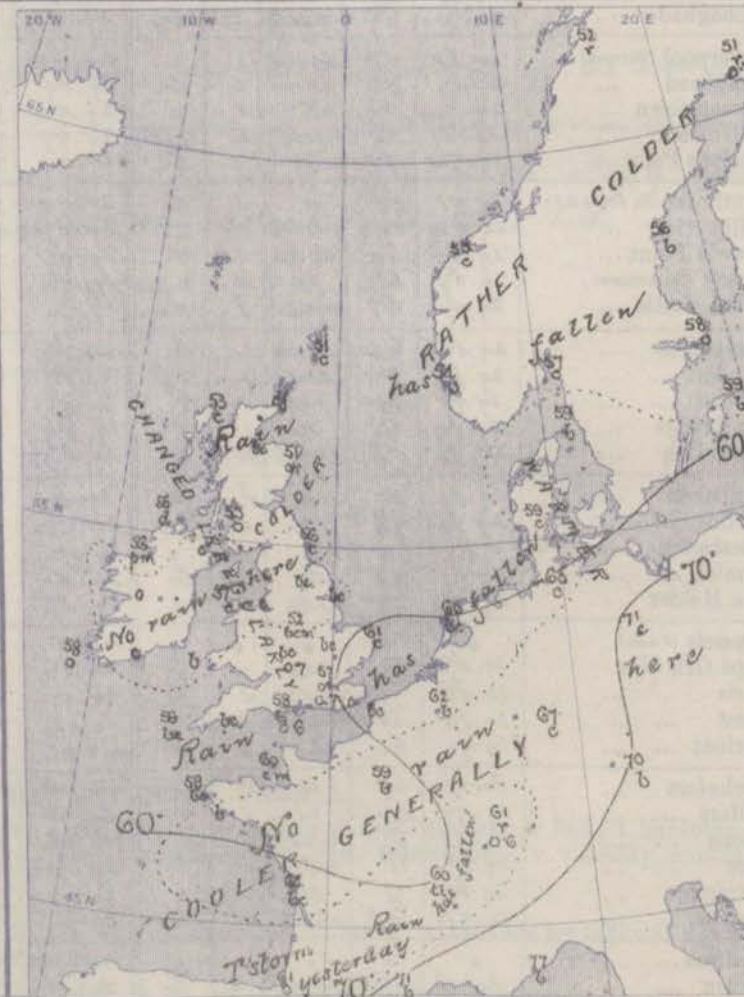
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of August.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	57.9	48.5	53.8	52.0	3.21
Stornoway	58.5	49.0	55.2	53.3	3.57
Wick	61.1	48.5	55.2	53.2	2.35
Nairn	63.4	50.2	55.6	52.7	2.81
Aberdeen	63.1	50.2	56.7	53.6	3.13
Leith	65.8	51.4	57.6	54.6	2.82
Shields	63.5	52.3	57.5	54.9	2.81
York	68.1	51.4	58.0	55.3	2.47
Loughborough	70.5	52.1	59.9	57.4	2.61
Ardrossan	64.0	53.1	57.3	54.9	4.08
Donaghadee	61.8	52.0	57.0	55.5	2.90
Holyhead	64.3	55.0	58.5	56.4	2.89
Liverpool	65.7	54.3	58.7	55.5	2.70
Parsonstown	66.2	51.7	57.6	55.7	3.48
Valencia	65.0	54.1	59.4	57.0	4.65
Roche's Point	66.6	53.9	59.0	56.4	3.69
Pembroke	63.7	55.8	58.9	56.6	2.91
Scilly	64.9	57.2	61.1	59.1	2.45
Jersey	69.0	57.4	63.1	60.0	2.26
Hurst Castle	68.1	56.1	61.2	59.1	2.31
Dover	67.1	57.2	62.6	59.0	2.08
LONDON	71.8	53.7	61.4	57.8	2.20
Oxford	69.2	53.4	59.2	56.4	2.33
Cambridge	71.3	52.1	60.2	57.3	2.25
Yarmouth	66.4	55.1	60.8	57.9	2.17

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. and upwards in an anticyclone lying over the Bay of Biscay and the southern parts of France, and also in south Germany.

Lowest 29.5 ins. and less over the north of Scandinavia.

Gradients slight. Barometer falling a little in the north and extreme W. of our Islands, & also in the N. of Scandinavia, but rising elsewhere.

TEMPERATURE

Highest 77° at Nice, 71° at Berlin and Perpignan, 70° at Munich, 67° at Wiesbaden, and 64° at Rochefort.

Lowest 51° at Haparanda, Lumburgh Head & Aberdeen, 52° at Bodo & Loughborough, 53° at Stornoway, Wick & Donaghadee & 54° at Vöcklabruck.

The highest maxima registered over our Islands yesterday were 67° at Loughborough & Jersey, and 65° at Cork.

WIND

Light from the NW² over Ireland, the west of Scotland, the south of England and the north of France. SW² or W² in most other localities, but variable in the south of France.

WEATHER

Cloudy and unsettled over the north of Scandinavia and the northern and northwestern parts of the United Kingdom, with rain in many places.

Fair or fine in most other parts of western Europe, but a thunderstorm reported at Lyons, and rain at Belgort. Since yesterday morning 0.7 inch of rain has fallen in London and at Oxford, and 0.6 inch at Hurst Castle.

SEA

Slight or smooth on all coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The weather still remains in a very unsettled state generally. Shallow depressions are travelling eastwards across our northern districts, and their influence seems likely to spread shortly to the more southern parts of the Kingdom.

FORECASTS

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

DISTRICTS.

FORECASTS.

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

SW² to NW² winds, light, changeable, some rain.

SW² and W² winds, light, fair to showery.

NW² and W² winds, light, fair at first, but afterwards showery.

DISTRICTS.

FORECASTS.

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

Same as Nos 0. and 1.

W² to NW² winds, light, fair generally, but local showers.

NW² winds, light or moderate, changeable, some showers.

WARNINGS

None Issued.

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

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

YESTERDAY'S 2 P.M. REPORTS.

THER: WIND								THER: WIND							
BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA	
Skudesnaes ...	29.75	61	55	WNW	6	bc	3	Holyhead ...	29.92	59	55	NNW	3	bc	2
Sumburgh Head ...	29.75	54	55	WSW	1	c	2	Valencia ...	29.92	63	51	NW	2	c	3
Sornoway ...	29.71	53	52	W	3	c	3	Scilly ...	29.85	59	52	NNW	3	bc	1
Aberdeen ...	29.86	57	52	S	2	cq	2	Jersey ...	29.83	66	61	W	4	bc	3
Shields ...	29.90	61	56	E	2	c	2	Dungeness ...	29.83	64	61	NNW	3	bc	2
Ardrossan ...	29.87	62	58	W	3	bc	2	London ...	29.86	59	56	NE	2	o r m	*
Malin Head ...	29.92	60	56	W	3	bc	1	Yarmouth ...	29.85	59	57	NNE	4	c	4
Mullachmore ...	29.95	59	57	WSW	3	bc	2	Rochefort ...	29.02	74	66	WNW	4	bc	?
Belmullet ...	29.97	57	53	NNW	1	c	*								

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

Weather in morning fine and bright over eastern, southern and southwestern Europe, and in most parts of the British Islands, dull, rainy and close in the south of England, dull in the south of France, foggy at Brest. A good deal of rain fell in the southern parts of England, Holland and many parts of France later, with thunder and lightning in several places; 0.4 in. of rain at Wick also, but very little at our western and northern stations as a whole.

Temperature exceeding 70° at the Mediterranean stations, and exceeding 80° over the western half of Algeria, as well as at Brindisi and Trieste; exceeding 70° over Germany, but below 60° over the United Kingdom, Norway and the northern half of Sweden. Rising to above 80° in many parts of France later, and to 91° at Nice; to 60° and more over the greater part of England, but to only 59° in London.

Wind extremely variable. Mainly SW² over the northern half of France, S² over the Baltic and Sweden, SE² over the northern half of Norway; varying between W. and N. over the British Islands. Little change later except in Norway, where a fresh W² breeze set in.

Barometer highest 29.9 ins. to 30.2 ins. over Russia, 29.9 ins. to 30.0 ins. and more over the Atlantic adjacent to the western coasts of the British Islands and Spain; lowest 29.6 ins. and less off the northwest of Norway, 29.7 ins. and less in small depressions lying over north Germany and the English Channel, 29.9 ins. and less over the Boreas Isles and northeast of Spain. Changing little and irregularly 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 Thursday 21st August. 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 3.)	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 ...	29.40	56	2	0	0	29.42	+0.01	55	53	+4	NW	2	C	*	59	48	0.04	
	Hernösand ...	29.59	56	SW	2	bc	29.55	-0.04	56	52	0	SW	2	C	*	60	45	—	
	Stockholm ...	29.72	58	SW	5	bc	29.64	-0.08	59	54	+1	WNW	2	0	*	70	48	—	
	Wisby ...	29.70	60	WNW	4	bc	29.69	-0.01	60	55	+1	WNW	4	bc	*	66	53	—	
	Bodö ...	29.55	52	WNW	4	0	29.55	+0.00	51	49	-1	W	2	C	1	52	40	0.43	
	Christiansund	29.61	54	WNW	3	C	29.61	+0.00	55	51	0	WNW	2	C	3	55	52	—	
	Skudesnaes ...	29.71	51	NW	1	C	29.71	+0.00	56	51	+2	E	2	0	3	59	46	0.09	
	Christiania Fjord (Færder)	29.65	58	SW	6	0	29.61	-0.04	53	50	-2	W	4	bc	2	61	54	—	
	Skagen (The Scaw)	29.72	58	SW	2	0	29.65	-0.07	55	54	-2	WNW	3	bc	3	63	54	0.16	
	Faenø ...	29.81	56	W	1	C	29.80	-0.01	60	60	+1	WNW	4	bc	*	63	53	0.04	
BRITISH ISLANDS.	Sumburgh Head	29.67	53	NW	1	bc	29.60	-0.07	51	48	0	S	1	0	2	56	43	—	
	Stornoway ...	29.77	55	NW	2	C	29.59	-0.18	53	54	+2	W	4	T	4	56	50	0.05	
	Wick ...	29.68	55	NW	3	C	29.64	-0.04	53	53	0	W	2	T	2	55	45	0.10	
	Nairn ...	29.76	54	W	2	bc	29.64	-0.12	56	54	0	SW	1	0	1	62	45	0.07	
	Aberdeen ...	29.75	56	N	2	bc	29.69	-0.06	54	51	+3	SW	1	op	1	64	43	0.11	
	Leith ...	29.74	67	W	2	bc	29.74	-0.00	59	56	+4	W	4	Cm	*	67	52	—	
	Shields ...	29.70	62	WNW	3	C	29.83	+0.13	60	56	+4	SW	2	0	2	65	52	—	
	Spurn Head ...	29.85	61	WNW	3	Cm	29.91	+0.06	60	58	+2	WNW	4	bc	3	65	53	—	
	York ...	29.86	60	W	3	0	29.91	+0.05	59	57	+2	SW	3	0	*	65	53	—	
	Loughborough	29.92	60	W	3	0	29.90	-0.02	60	57	+3	WNW	3	0	*	68	52	—	
GERMANY & HOLLAND.	Ardrossan ...	29.81	59	W	3	C	29.78	-0.03	57	56	+1	SW	4	T	3	63	54	0.01	
	Malin Head ...	29.85	57	W	4	0	29.77	-0.08	56	53	0	SW	4	odp	2	60	54	0.13	
	Mullaghmore ...	29.53	57	W	5	opd	29.85	+0.32	58	56	+2	SW	5	0	2	61	53	0.03	
	Belmullet ...	29.94	58	W	3	Cm	29.88	-0.06	59	57	+2	WNW	4	0	*	61	53	0.11	
	Donaghadee ...	29.87	59	ENE	2	C	29.86	-0.01	57	56	+1	W	2	C	1	66	52	0.01	
	Liverpool (Bidston)	29.90	59	WNW	3	0	29.94	+0.04	60	57	+3	SW	1	0	2	61	55	—	
	Holyhead ...	29.91	59	SW	4	Cg	29.94	+0.03	58	55	+1	WNW	2	Tm g	2	61	56	0.02	
	Parsonstown ...	29.95	62	2	0	0	29.94	-0.01	59	57	+4	SW	1	0	*	65	52	0.02	
	Valencia ...	30.05	59	NW	1	0	30.05	+0.00	59	58	+1	WNW	3	om g	4	64	56	0.02	
	Roche's Point ...	29.99	62	NW	3	bc	30.02	+0.03	60	57	+3	WNW	3	C	3	65	53	—	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.57	59	WNW	3	C	30.03	+0.46	58	57	0	WNW	3	Cg p	2	61	55	—	
	Scilly ...	30.04	63	W	3	T	30.08	+0.04	59	58	0	W	4	0	1	64	53	0.02	
	Prawle Point ...	30.04	58	W	4	bc	30.09	+0.05	58	57	-2	WNW	4	0	2	62	54	—	
	Jersey (St. Aubin's)	30.07	63	WNW	3	bc	30.15	+0.08	61	58	+1	SW	5	ogm	4	65	52	—	
	Hurst Castle ...	30.00	64	WNW	4	bc	30.08	+0.08	61	60	+3	WNW	5	C	2	68	59	—	
	Dungeness ...	29.92	64	W	4	m	30.06	+0.14	59	57	-3	W	5	p	3	66	58	0.01	
	London ...	29.95	63	W	2	bc	30.04	+0.09	60	57	+3	WNW	1	C	*	69	54	—	
	Oxford ...	29.95	58	W	2	0	30.02	+0.07	59	56	+3	SW	3	0	*	67	53	—	
	Cambridge ...	29.93	61	W	1	bc	30.00	+0.07	62	58	+3	SW	2	bc	*	70	54	—	
	Yarmouth ...	29.87	63	SW	1	bc	29.97	+0.10	62	58	+1	WNW	3	bc	2	64	52	—	
PENINSULA.	Cuxhaven ...	29.84	61	ENE	1	bc	29.89	+0.05	60	59	0	WNW	4	0	*	65	59	0.32	
	Berlin ...	29.89	67	SW	3	0	30.01	+0.12	63	58	-5	W	5	C	*	75	61	—	
	Wiesbaden ...	30.14	65	W	3	0	30.16	+0.02	59	57	-2	SW	1	bc	*	73	52	0.01	
	Munich ...	30.14	65	W	3	0	30.26	+0.12	62	59	-3	NW	3	bc	*	75	59	0.20	
	The Helder ...	29.88	61	W	1	C	29.96	+0.08	60	59	0	WNW	3	bc	3	64	57	0.01	
	Brussels (9 a.m.)	29.95	63	W	4	m	30.16	+0.21	58	56	-4	SW	3	bc	*	71	52	0.04	
	Cape Gris Nez	30.04	66	W	1	T	30.06	+0.02	59	57	-2	WNW	5	0	5	68	59	—	
	Paris ...	30.04	66	W	1	T	30.16	+0.12	59	57	-2	W	5	0	5	68	59	—	
	Brest ...	30.08	63	W	2	bc	30.15	+0.07	61	59	+3	WNW	2	0	2	75	54	—	
	Lorient ...	30.10	62	NW	4	bc	30.21	+0.11	61	59	+3	WNW	3	0	3	76	55	—	
PENINSULA.	Rochefort ...	30.18	66	WNW	4	bc	30.31	+0.13	61	58	-3	ENE	2	bc	2	72	54	—	
	Belfort ...	29.94	66	W	1	bc	30.15	+0.21	62	50	+1	E	1	bc	*	82	54	—	
	Lyons ...	30.07	65	N	1	bc	30.21	+0.14	64	59	+4	W	1	bc	*	69	57	0.16	
	Nice ...	29.97	76	SW	3	C	30.02	+0.05	72	64	-8	SW	2	bc	1	84	64	—	
	Perpignan ...	30.01	73	NW	4	bc	30.17	+0.16	68	61	-7	NW	3	0	*	83	64	—	
	Biarritz ...	30.15	68	WNW	3	0	30.24	+0.09	63	59	+2	ENE	3	bc	1	75	61	—	
	Corunna ...	30.08	64	WNW	5	bc	30.08	-0.00	65	58	+4	N	5	bc	4	73	61	—	
	Lisbon ...	30.08	64	WNW	5	bc	30.08	-0.00	65	58	+4	N	5	bc	4	73	61	—	

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, 21st August,

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:

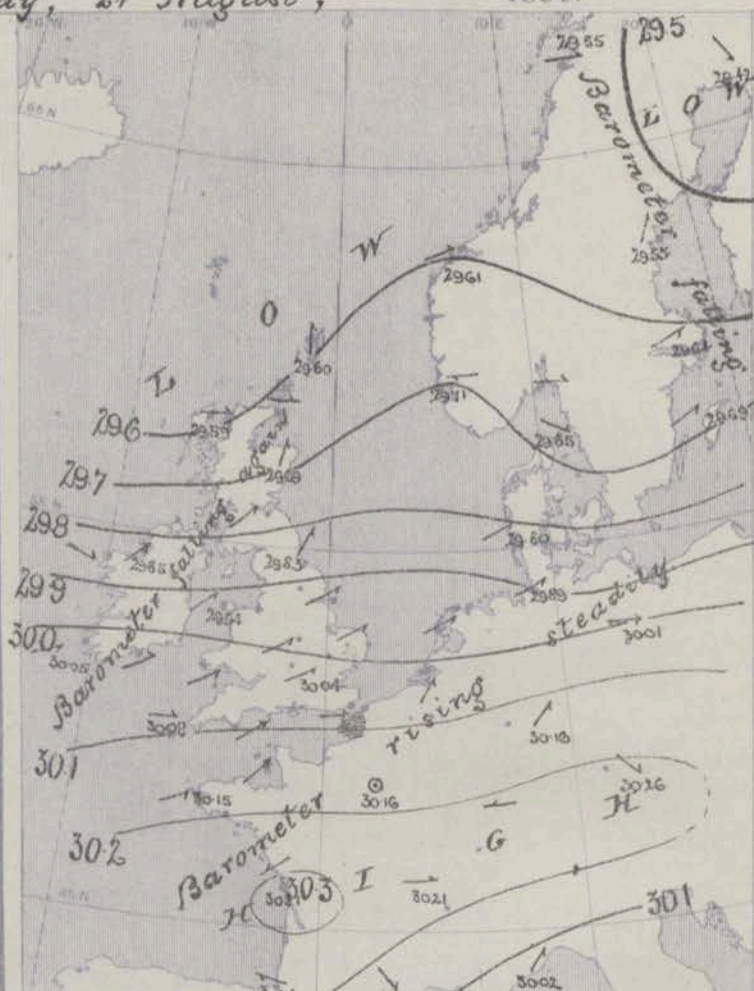
■ = Rough. ■ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.793
Stornoway	29.802
Wick	29.818
Nairn	29.827
Aberdeen	29.835
Leith	29.852
Shields	29.875
York	29.907
Loughborough	29.925
Ardrrossan	29.860
Donaghadee	29.877
Holyhead	29.904
Liverpool	29.903
Parsonstown	29.919
Valencia	29.922
Roche's Point	29.922
Pembroke	29.921
Scilly	29.958
Jersey	29.976
Hurst Castle	29.990
Dover	29.950
LONDON	29.952
Oxford	29.943
Cambridge	29.934
Yarmouth	29.929



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.

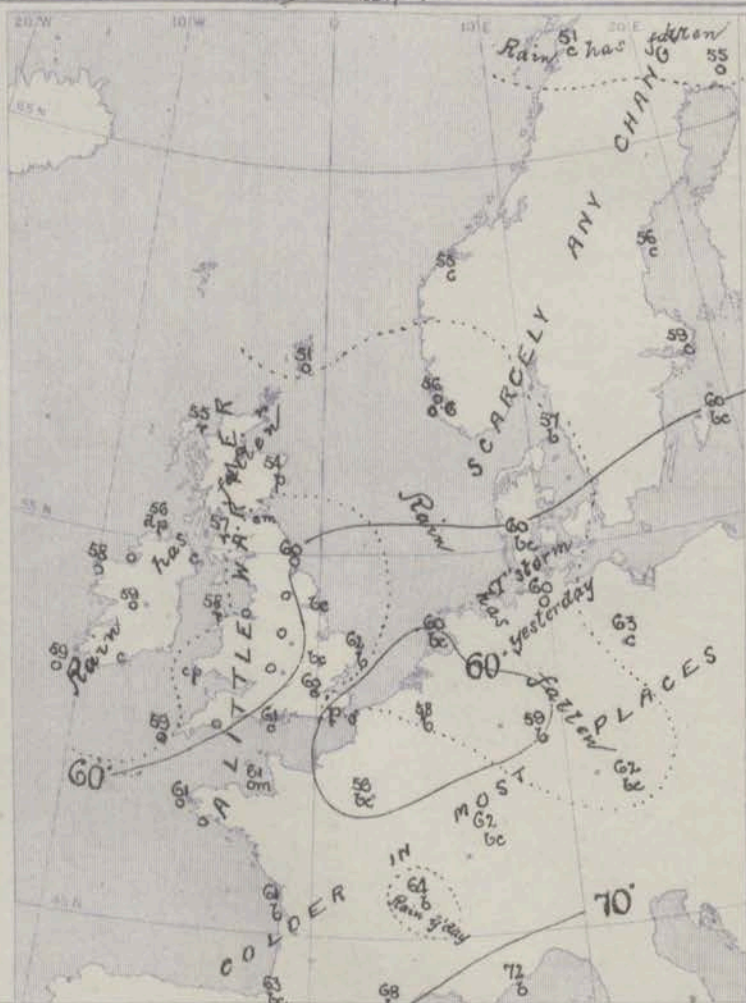
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of August.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	57.9	48.5	53.8	52.0	3.21
Stornoway	58.5	49.0	55.2	53.3	3.57
Wick	61.1	48.5	55.2	53.2	2.85
Nairn	63.4	50.2	55.6	52.7	2.81
Aberdeen	63.1	50.2	56.7	53.6	3.13
Leith	65.8	51.4	57.6	54.6	2.62
Shields	63.5	52.3	57.5	54.9	2.81
York	68.1	51.4	58.0	55.3	2.47
Loughborough	70.5	52.1	59.9	57.4	2.61
Ardrrossan	64.0	53.1	57.3	54.9	4.08
Donaghadee	61.8	52.0	57.0	55.5	2.99
Holyhead	64.3	55.0	58.5	56.4	2.89
Liverpool	65.7	54.3	58.7	55.5	2.79
Parsonstown	66.2	51.7	57.6	55.7	3.48
Valencia	68.0	54.1	59.4	57.0	4.65
Roche's Point	65.6	53.9	59.0	56.4	3.59
Pembroke.....	63.7	55.8	58.9	56.6	2.91
Scilly	64.0	57.2	61.1	59.1	2.45
Jersey	69.0	57.4	63.1	60.0	2.25
Hurst Castle	68.1	56.1	61.2	59.1	2.31
Dover	67.1	57.2	62.6	59.0	2.95
LONDON	71.8	53.7	61.4	57.8	2.20
Oxford	69.2	53.4	59.2	56.4	2.33
Cambridge	71.3	52.1	60.2	57.3	2.25
Yarmouth	66.4	55.1	60.8	57.9	2.17

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. in an anticyclone extending from the Bay of Biscay to south Germany.
Lowest 29.5 ins. and less in the north of Sweden.

Gradients slight. Barometer falling in the west and north of our Islands, and also in Sweden and Denmark, but rising elsewhere.

TEMPERATURE

Highest 72° at Nice, 68° at Perpignan, 65° at Lisbon, 64° at Lyons, 63° at Berlin & Biarritz, and 62° at Larmouth.

Lowest 57° at Bodø and Lumburgh Head, 53° at Wick, 54° at Aberdeen, & 55° at Naparanda, Christiansund, and Stormøysund.
The highest maxima registered over our Islands yesterday were 70° at Cambridge, 68° at Loughborough, & 67° at Harlow, & in London.

WIND

Light or moderate from the SW^w or W^w in nearly all parts of northwestern Europe, but E^z in the southwest of France, and N^z at Lisbon.

WEATHER

Fine in Denmark, Germany, France, the Netherlands and the east of England.
Cloudy or overcast elsewhere, with rain or passing showers at several of our western and northern stations.
Showers fell yesterday in many parts of northwestern Europe, and thunder occurred at Leuchhaven.

SEA

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

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are at present no signs of any decided change in the weather. Fresh depressions are evidently approaching our western and northwestern coasts, and showers are probable in nearly all parts of the Kingdom.

FORECASTS

For the 24 hours ending at NOON on 22ND AUGUST 1890.

DISTRICTS.

FORECASTS.

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

SW^z and W^z winds, light, dull, some rain.

SW^z winds, light or moderate, fair to showery.

SW^z and W^z winds, moderate or fresh, cloudy, showery.

DISTRICTS.

FORECASTS.

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

Same as Nos 0. and 1.

Same as No 5.

SW^z winds, freshening; dull, some rain.

WARNINGS

None Issued.

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

YESTERDAY'S 2 P.M. REPORTS.

THER: WIND								THER: WIND							
BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA	
Skudesnaes ...	29.67	59	54	SW	2	C	4	Holyhead ...	29.90	60	56	SW	4	C	2
Sumburgh Head ...	29.65	55	52	2	0	bc	0	Valencia ...	30.03	62	60	NW	3	C	3
Stornoway ...	29.77	54	50	N	3	C	3	Scilly ...	30.02	64	60	SW	3	0	1
Aberdeen ...	29.70	61	54	NW	2	cf	1	Jersey ...	30.04	64	58	W	3	bm	2
Shields ...	29.75	61	54	SW	3	cf	2	Dungeness ...	29.51	63	61	WNW	4	cf	2
Ardrossan ...	29.78	63	61	W	3	C	2	London ...	29.92	69	60	WNW	2	C	8
Mulin Head ...	29.84	55	53	NW	4	0	2	Yarmouth ...	29.86	63	61	SW	2	cf	3
Mullaghmore ...	29.91	60	56	WNW	4	OV	2	Rochefort ...	30.15	72	66	WNW	4	cf	2
Belmullet ...	29.94	60	57	WNW	2	0	*								

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

Weather fine and bright over southeastern, southern and southwestern Europe and the greater part of the Mediterranean, cloudy, changeable and unsettled over Europe and the British Islands, with rain in many places, fog in Caithness, and a thunderstorm at Breslau. Air close and oppressive in many parts of England. Rain at times during day at most of our northern and northwestern stations, and slight showers in a few southern localities.

Temperature exceeding 80° in several parts of Italy, at Brindisi and Trieste, and exceeding 70° over southern and southeastern Europe generally, and in some parts of North Germany. Below 60° over the British Islands and northern Europe, and as low as 51° at Haparanda, Sumburgh Head and Aberdeen, 51° at Bodø, and 53° at Stornoway. Rising to between 60° and 68° over England later, to 74° at Paris, and to 88° at Nice.

Wind mainly W? (SW to NW) over the northern half of Europe, very variable elsewhere, moderate to light in force generally. A well defined cyclonic circulation prevalent over the Mediterranean. Not much change later.

Barometer highest 29.9 ins. to 30.1 ins. and more in two areas - one lying over southeastern, the other over southwestern Europe and the neighbouring parts of the Atlantic; lowest 29.4 ins. and less over Lapland, and about 29.85 ins. in two depressions - one between the southeast coast of England and the Netherlands, the other over the northern parts of the Mediterranean. Rising over northwestern Europe during day, but shallow local disturbances still prevail.

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; n. 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 .22nd August. 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 9.)	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 ...	29.46	52	2	0	bc	29.45	+0.03	53	51	-2	NW	2	0	*	61	50	0.16	
Hernösand ...	29.55	51	2	0	bc	29.58	+0.03	52	50	-4	2	0	0	*	63	51	—	
Stockholm ...	29.62	53	W	2	bc	29.62	-0.02	53	54	0	WNW	2	0	*	66	41	0.43	
Wisby ...	29.69	62	WNW	6	bc	29.69	0.00	55	54	-1	WNW	4	0	*	64	54	0.04	
Bodö ...	29.58	51	2	0	0	29.53	-0.05	53	50	+2	WNW	2	0	1	54	46	0.04	
Christiansund	29.56	53	WNW	3	bc	29.58	-0.02	53	51	0	WNW	1	0	1	57	54	—	
Skudesnaes ...	29.54	54	WNW	6	T	29.49	-0.05	53	51	-1	WNW	6	0	5	57	54	—	
Christiania Fjord (Fjorder)	29.62	60	WNW	5	bc	29.41	-0.21	53	56	+3	WNW	3	0	3	61	54	0.43	
Skagen (The Seaw)	29.68	56	W	3	0	29.50	-0.18	53	55	+1	W	4	0	3	63	53	0.08	
Fanö ...	29.78	60	WNW	6	T	29.67	-0.11	53	57	-2	WNW	6	0	*	63	57	0.32	
Sumburgh Head	29.42	54	WNW	1	0	29.42	-0.00	51	50	0	NW	5	0	6	56	47	0.87	
Stornoway ...	29.58	52	W	4	0	29.63	+0.05	51	50	-4	W	3	0	3	57	46	0.52	
Wick ...	29.57	53	WNW	4	0	29.60	+0.03	54	53	+1	WNW	5	0	3	58	45	0.20	
Nairn ...	29.55	53	W	3	0	29.64	+0.09	53	50	-3	W	2	0	2	59	46	0.12	
Aberdeen ...	29.55	53	WNW	2	0	29.64	+0.09	53	49	+1	WNW	2	0	1	60	44	0.07	
Leith ...	29.67	60	W	4	bc	29.78	+0.11	56	51	-3	W	3	0	*	62	47	0.04	
Shields ...	29.74	59	WNW	3	T	29.83	+0.09	54	50	-6	WNW	3	0	2	62	48	0.06	
Spurn Head ...	29.81	62	WNW	4	0	29.90	+0.09	57	54	-3	WNW	6	0	5	69	52	0.01	
York ...	29.80	59	WNW	3	T	29.93	+0.13	56	52	-3	WNW	3	0	*	64	48	0.23	
Loughborough	29.85	62	WNW	4	0	30.03	+0.18	56	52	-4	W	3	0	*	67	49	0.12	
BRITISH ISLANDS.																		
Ardrossan ...	29.75	58	WNW	4	bc	29.80	+0.05	57	54	0	WNW	4	0	4	62	50	0.38	
Malin Head ...	29.76	57	W	6	bc	29.82	+0.06	54	51	-2	W	5	0	4	58	51	0.08	
Mullaghmore ...	29.90	56	W	6	bc	29.93	+0.03	53	51	-3	WNW	6	0	4	60	52	0.13	
Belmullet ...	29.94	57	WNW	4	bc	29.94	+0.00	53	50	-5	WNW	4	0	*	60	52	0.10	
Donaghadee ...	29.83	60	WNW	3	bc	29.91	+0.08	53	52	-4	WNW	4	0	2	63	52	0.08	
Liverpool (Bidston)	29.84	58	W	5	bc	29.97	+0.13	56	51	-4	WNW	6	0	5	61	54	0.14	
Holyhead ...	29.88	58	WNW	3	bc	30.01	+0.13	60	55	+2	W	4	0	4	61	52	0.12	
Parsonstown ...	29.96	59	WNW	1	bc	30.02	+0.06	55	52	-4	WNW	1	0	*	63	50	0.05	
Valencia ...	30.09	60	WNW	4	bc	30.10	+0.01	58	57	-1	WNW	3	0	4	62	54	0.03	
Roche's Point...	30.03	60	WNW	4	bc	30.10	+0.07	57	54	-3	W	3	0	3	64	51	0.01	
Pembroke (St. Ann's Hd)	29.96	59	WNW	6	T	30.10	+0.14	57	55	-1	W	5	0	4	60	56	0.02	
Scilly ...	30.11	60	WNW	4	0	30.18	+0.07	57	58	0	WNW	3	0	2	62	54	0.02	
Prawle Point ...	30.09	58	W	4	bc	30.15	+0.06	57	56	-1	W	3	0	2	61	54	0.15	
Jersey (St. Aubin's)	30.15	63	W	4	bc	30.20	+0.05	62	57	+1	WNW	3	0	3	64	58	0.04	
Hurst Castle ...	30.05	61	WNW	6	bc	30.14	+0.09	57	56	-4	WNW	4	0	2	65	54	0.10	
Dungeness ...	30.02	61	WNW	6	bc	30.06	0.00	61	57	+2	W	3	0	3	66	54	0.12	
London ...	29.99	61	WNW	2	bc	30.09	+0.10	58	54	-2	W	3	0	*	65	52	0.01	
Oxford ...	29.97	59	WNW	4	bc	30.09	+0.12	54	52	-5	WNW	3	0	*	64	49	0.42	
Cambridge ...	29.97	60	WNW	3	0	30.04	+0.07	57	52	-5	WNW	2	0	*	67	50	0.04	
Yarmouth ...	29.91	63	WNW	2	0	29.97	0.00	56	52	-6	W	4	0	2	66	50	0.09	
GERMANY & HOLLAND.																		
Cuxhaven ...	29.94	60	WNW	4	0	29.80	-0.14	60	59	0	WNW	4	0	*	64	58	0.60	
Berlin ...	30.02	64	W	2	0	29.90	-0.12	65	59	+2	W	3	0	*	72	57	—	
Wiesbaden ...	30.10	63	W	2	0	30.10	0.00	65	59	-2	WNW	2	0	*	73	55	0.12	
Munich ...	30.15	63	W	0	0	30.23	+0.08	61	57	-1	WNW	5	0	*	70	54	0.08	
The Helder ...	29.91	62	WNW	4	T	29.91	0.00	59	55	-1	WNW	3	0	4	66	59	0.16	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.)	30.02	64	W	5	0	30.02	0.00	57	57	-1	WNW	3	0	*	68	55	0.20	
Cape Gris Nez	29.99	64	W	5	0	30.06	+0.07	59	56	0	WNW	4	0	4	64	57	0.16	
Paris ...	30.17	64	WNW	2	0	30.18	+0.01	61	57	+5	W	2	0	*	71	57	—	
Brest ...	30.19	62	W	3	0	30.21	+0.02	59	56	-2	W	2	0	3	72	54	0.04	
Lorient ...	30.23	61	W	4	0	30.25	+0.02	62	60	+1	W	4	0	4	76	59	—	
Rochefort ...	30.34	66	WNW	4	bc	30.35	+0.01	65	62	+4	WNW	4	0	3	77	57	—	
Belfort ...	30.12	72	W	1	bc	30.13	-0.01	59	51	-3	W	1	0	*	78	52	—	
Lyons ...	30.20	68	WNW	1	bc	30.30	+0.10	62	57	-2	W	1	0	*	76	53	—	
Nice ...	30.02	80	WNW	3	bc	30.05	+0.03	75	58	+3	WNW	2	0	0	82	72	—	
Perpignan ...	30.19	72	W	3	bc	30.25	+0.06	71	62	+3	W	2	0	*	81	60	—	
Biarritz ...	30.28	69	WNW	5	bc	30.35	+0.07	63	58	0	WNW	3	0	1	75	59	—	
PENIN- SULA.																		
Corunna ...	30.09	69	WNW	5	bc	30.09	0.00	72	61	+7	W	4	0	5	79	59	—	
Lisbon ...	30.09	69	WNW	5	bc	30.09	0.00	72	61	+7	W	4	0	5	79	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

Friday, 22nd August,

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.

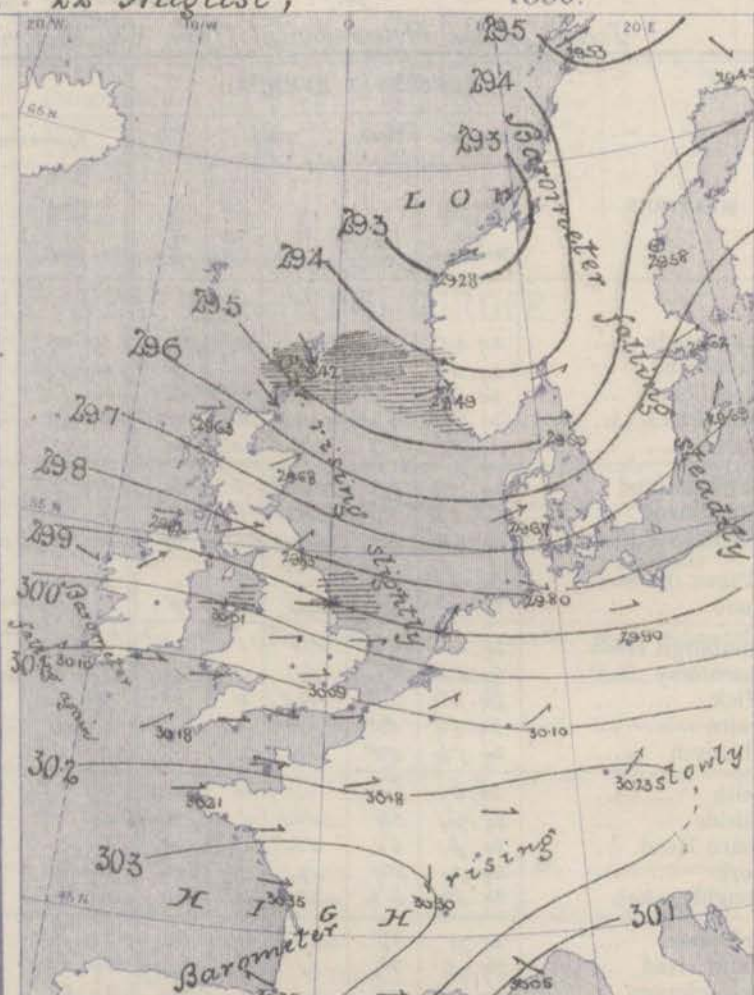
SEA DISTURBANCE—Where considerable, is shown thus:

■ = Rough. ■ = High.

MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.793
Stornoway	29.802
Wick	29.818
Nairn	29.827
Aberdeen	29.835
Leith	29.852
Shields	29.875
York	29.907
Loughborough	29.925
Ardrossan	29.860
Donaghadee	29.877
Holyhead	29.904
Liverpool	29.903
Parsonstown	29.919
Valencia	29.922
Roche's Point	29.922
Pembroke	29.921
Scilly	29.958
Jersey	29.976
Hurst Castle	29.960
Dover	29.950
LONDON	29.952
Oxford	29.943
Cambridge	29.934
Yarmouth	29.929



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.

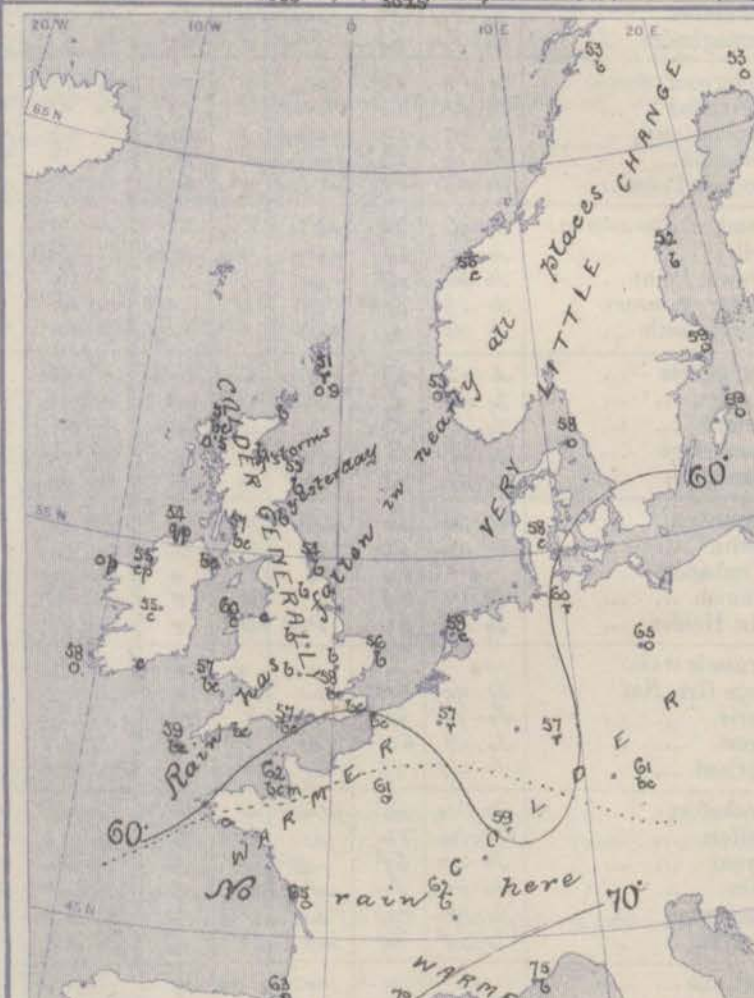
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of August.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head.....	57.9	48.6	53.8	52.0	3.21
Stornoway	58.5	49.0	55.2	53.3	3.57
Wick	61.1	48.5	55.2	53.2	2.35
Nairn	63.4	50.2	55.6	52.7	2.81
Aberdeen	63.1	50.2	56.7	53.6	3.13
Leith	65.8	51.4	57.6	54.6	2.62
Shields	63.5	52.3	57.5	54.9	2.81
York	68.1	51.4	58.0	55.3	2.47
Loughborough	70.5	52.1	59.9	57.4	2.61
Ardrossan	64.0	53.1	57.3	54.9	4.08
Donaghadee	61.8	52.0	57.0	55.5	2.99
Holyhead	64.3	55.0	58.5	56.4	2.89
Liverpool	65.7	54.3	58.7	55.5	2.79
Parsonstown	66.2	51.7	57.6	55.7	3.48
Valencia	65.0	54.1	59.4	57.0	4.65
Roche's Point	66.6	53.9	59.0	56.4	3.59
Pembroke	63.7	55.8	58.9	56.6	2.91
Scilly	64.9	57.2	61.1	59.1	2.46
Jersey	69.0	57.4	63.1	60.0	2.28
Hurst Castle	68.1	56.1	61.2	59.1	2.31
Dover	67.1	57.2	62.6	59.0	2.06
LONDON	71.8	53.7	61.4	57.8	2.20
Oxford	69.2	53.4	59.2	56.4	2.33
Cambridge	71.3	52.1	60.2	57.3	2.25
Yarmouth	66.4	55.1	60.8	57.9	2.17

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	<i>Highest</i> 30.3 ins. and upwards in an anticyclone lying over the southern parts of France and the Bay of Biscay. <i>Lowest</i> 29.3 ins. and less in a depression lying off the west of Norway. <i>Gradients</i> moderate. Barometer rising in most parts of the United Kingdom and France, but inclined to fall again at Valencia Island.
TEMPERATURE	<i>Highest</i> 75° at Nice, 72° at Lisbon, 71° at Perpignan, 65° at Berlin and Rochfort, and 63° at Biarritz. <i>Lowest</i> 51° at Lamlugh Head and Stornoway, 52° at Hernösand, 53° at Bodø, Haparanda, Naara, Belmullet, & Donaghadee. The highest maxima registered over our Islands yesterday were 69° at Spurn Hd. & 67° at Loughborough & Cambridge.
WIND	Chiefly W ² or SW ² , and light to fresh in force. Light from the E ² in the south of France, and also at Bodø, moderate from the N ² at Lisbon.
WEATHER	Fine over the greater part of our Islands and also in the south of France, but dull and showery in the west and north of Ireland. Dull at many of the continental stations, with rain at Larchoven and Wiesbaden. Rain fell yesterday in all parts of the United Kingdom, and thunderstorms occurred at some of the bested stations.
SEA	Rough at Lamlugh Head and rather rough at Skudesnes, Spurn Head and Liverpool, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A fresh fall of the barometer appears to have set in at Valencia Island since 10 p.m., and other depressions are apparently advancing from the Atlantic. There are at present no indications of settled weather.

FORECASTS

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

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	W ² winds, backing later, fine to cloudy and unsettled.	6 SCOTLAND WEST	Same as Nos 0. and 1.
1 SCOTLAND EAST		7 ENGLAND N.W.	Same as No. 5.
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST	Same as No. 5.	9 IRELAND NORTH	Wind backing to the SW ² or S ² and freshening, cloudy, unsettled, some rain.
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH	W ² to SW ² winds, fresh; fine at first, cloudy later, with some rain.	WARNINGS	None Issued.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND		WEA.	SEA		BAR.	THER.		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.69	50	53	SE	4	C	3		Holyhead ...	29.88	51	SW	4	Trg	3
Sumburgh Head ...	29.48	53	53	SW	1	T	3		Valencia ...	30.05	60	WNW	3	o	4
Stornoway ...	29.53	53	54	W	4	C	4		Seilly ...	30.11	62	WSW	4	C	1
Aberdeen ...	29.61	53	56	SW	1	o	1		Jersey ...	30.16	63	WSW	4	Cmg	4
Shields ...	29.76	61	58	SW	3	o	2		Dungeness ...	30.04	65	WSW	5	C	3
Ardrossan ...	29.72	58	56	WSW	5	o	4		London ...	30.00	65	SW	2	o	8
Mulin Head ...	29.76	54	52	W	5	o & b	3		Yarmouth ...	29.96	65	WSW	3	bc	2
Mullaghmore ...	29.87	60	55	W	6	bc	5		Rochefort ...	30.34	65	W	3	b	9
Belmullet ...	29.51	59	54	WNW	5	bc	*								

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

Weather in morning fine and bright over eastern, southeastern, and ^{the} greater part of central and southern Europe, as well as over the Mediterranean; cloudy and changeable over the British Islands, North Sea and northern Europe. Rain subsequently fell throughout the latter regions, - heavy in some localities, thunderstorms in Scotland.

Temperature in morning 80° or more at Trieste, Brindisi and Biskra; above 70° on the Mediterranean coast generally and in many parts of southeastern Europe; below 60° over the British Islands, northwestern and northern Europe generally, and as low as 51° at Bodø and Sumburgh Head, 53° at Wick, 54° at Knapik and Aberdeen, and 55° at Haparanda and Stornoway. Rising during day to between 60° and 67° over the British Islands and Sweden, to 70° and more over Germany and the north of France, and to 80° and more in the S. of France.

Wind moderate from between W. and SW. over all the more northern countries of Europe, light to moderate and very variable in the south; variable, and in places strong over parts of Austria and Germany. Very little change later except of a local character.

Barometer highest 30.1 ins. to 30.3 ins. and more over western and central Europe, 30.0 ins. to 30.1 ins. and more over southern Russia; lowest 29.5 ins. and less over Lapland, 29.6 ins. and less off the north of Scotland, 29.9 ins. in a local disturbance over Poland; and 30.0 ins. in another between Corsica and the French coast. Changes slight and irregular 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 *Saturday 23rd August.*

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. Reading at 32° F. and Sea Level.	Temp. Dry.	Wind.		Weather.	Barometer.		Shade Temp.			Wind.		Sea. (0 to 2.)	Shade Temp.		Amount of Rainfall.		
			Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)		Weather.	Max.		Min.	
SCANDINAVIA.																		
Haparanda ...																		
Hernösand ...																		
Stockholm ...																		
Wisby ...																		
Bodo ...	29.43	55	2	0	b	29.45	-0.1	50	51	+5	b	4	b	2	?	50	-	
Christiansund ...	29.37	52	WSE	4	c	29.41	+1.3	52	50	-3	ENE	2	b	2	57	40	0.24	
Skudesnaes ...	29.61	54	W	4	a	29.54	+0.5	53	50	0	SE	2	c	4	57	40	0.20	
Christiania Fjord (Færder) ...	29.46	59	WSE	1	c	29.57	+1.6	56	49	-2	WSE	5	b	4	61	55	-	
Skagen (The Seaw) ...	29.59	56	W	6	b	29.62	+1.2	56	53	-2	WSE	3	c	3	61	52	-	
Fanö ...	29.82	56	W	6	c	29.71	+1.04	53	53	-5	SW	1	o	*	61	52	0.43	
Sumburgh Head ...	29.50	53	WSE	4	bc	29.46	+0.4	52	48	+1	W	1	bc	4	57	46	0.07	
Stornoway ...	29.63	54	W	4	o	29.53	-1.0	50	49	-1	NW	3	o	3	56	44	0.62	
Wick ...	29.60	51	NW	2	bc	29.58	-1.0	52	50	-2	NW	2	c	2	59	41	0.06	
Nairn ...	29.66	55	WNW	1	c	29.51	-1.3	51	49	-2	W	1	bc	1	59	43	0.10	
Aberdeen ...	29.68	58	SW	2	c	29.51	-1.7	48	47	-7	NW	1	OT	1	54	45	0.04	
BRITISH ISLANDS.																		
Leith ...	29.76	57	W	2	c	29.54	-2.4	50	49	-6	W	1	TM	*	61	47	0.42	
Shields ...	29.83	60	SW	3	c	29.51	-3.2	50	49	-4	WNW	3	o	2	61	48	0.50	
Spurn Head ...	29.91	61	WSE	5	bc	29.84	-3.6	50	54	-2	SW	5	bc	4	62	54	0.12	
York ...	29.92	59	W	3	c	29.50	-3.4	53	51	-1	W	3	bc	*	63	51	0.47	
Loughborough ...	29.90	61	W	3	c	29.62	-1.41	53	54	-1	W	2	c	*	66	54	0.32	
Ardrossan ...	29.70	56	WSE	4	o	29.56	-2.4	56	52	-1	W	2	bc	1	60	50	0.32	
Malin Head ...	29.75	53	WSE	4	o	29.61	-2.1	50	49	-4	NW	4	bc	2	59	49	0.15	
Mullaghmore ...	29.70	53	SEW	3	T	29.69	-2.4	53	50	-2	NW	6	bc	4	50	47	1.15	
Belmullet ...	29.77	53	SW	2	od	29.75	-1.9	54	50	+1	WNW	3	bc	*	57	49	0.50	
Donaghadee ...	29.81	56	WSE	2	c	29.67	-2.8	51	50	-2	W	4	o	2	62	49	0.16	
Liverpool (Bidston) ...	29.52	56	SW	3	o	29.63	-3.4	53	50	-3	WNW	5	o	4	62	52	0.27	
Holyhead ...	29.51	54	SW	4	TM	29.68	-3.7	56	53	-4	WNW	4	bc	4	62	51	0.55	
Parsonstown ...	29.70	55	2	0	T	29.77	-2.5	53	50	-2	2	0	bc	*	60	49	0.80	
Valencia ...	29.81	60	SW	7	TM	29.80	-2.2	56	53	-2	WNW	4	bc	5	60	52	0.43	
Roche's Point ...	29.87	59	WSE	5	TM	29.81	-2.9	57	52	0	NW	5	bc	4	60	51	0.25	
Pembroke (St. Ann's Hd.) ...	29.55	59	SW	6	o	29.76	-3.4	53	52	-2	NW	5	bc	5	60	55	0.17	
Scilly ...	30.00	61	2	4	c	29.83	-3.5	53	53	0	NW	5	c	4	64	54	0.05	
Prawle Point ...	30.12	58	SW	6	c	29.70	-1.41	53	50	+2	SEW	7	TM	6	62	56	0.07	
Jersey (St. Aubin's) ...	30.20	62	W	3	b	29.94	-2.6	62	59	0	WSE	5	bc	4	65	58	-	
Hurst Castle ...	30.12	62	WSE	6	b	29.77	-3.7	61	60	+4	SW	9	bc	5	64	57	0.04	
Dungeness ...	30.00	62	WSE	6	c	29.77	-2.9	62	50	+1	WSE	8	c	6	69	49	-	
London ...	30.05	63	SW	3	b	29.71	-3.8	61	59	+3	SW	5	o	*	67	57	-	
Oxford ...	30.01	57	SW	2	o	29.65	-4.4	61	53	+7	SEW	5	o	*	64	54	0.01	
Cambridge ...	30.01	61	SW	2	o	29.63	-4.1	62	59	+5	SW	4	o	*	68	55	-	
Yarmouth ...	29.99	61	WSE	3	b	29.64	-3.3	61	50	+5	SEW	6	bc	4	65	55	0.01	
GERMANY & HOLLAND.																		
Cuxhaven ...	29.53	57	W	5	o	29.85	+0.5	54	53	-6	SEW	3	T	*	62	54	0.12	
Berlin ...	30.00	60	W	3	c	30.02	+1.2	56	53	-9	SW	3	b	*	66	48	0.12	
Wiesbaden ...						30.00	-0.2	57	55	0	WSE	1	o	*	64	50	0.24	
Munich ...	30.26	60	SW	2	c	30.24	+0.1	61	56	0	SE	1	b	*	70	54	-	
The Helder ...	30.00	60	SW	3	T	29.71	-2.0	60	57	+1	SW	6	o	4	63	57	0.04	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.) ...						29.89	-1.3	61	60	+4	SEW	5	b	*	68	?	?	
Cape Gris Nez ...		61	WNW	6	b			61	58	+2	WNW	6	c	6	64	57	-	
Paris ...	30.20	66	WNW	2	bc	30.05	-1.3	55	53	-6	SEW	3	c	*	74	40	-	
Brest ...	30.19	62	SW	2	b	29.77	-2.4	61	60	+2	SW	4	o	4	75	54	-	
Lorient ...	30.24	64	WSE	3	b	30.04	-2.1	63	58	+1	WSE	4	o	4	66	57	0.04	
Rochefort ...	30.32	68	WNW	3	b	30.17	-1.8	61	61	-4	SE	3	c	?	73	54	-	
Belfort ...	30.21	66	NW	1	b	30.13	0.0	59	52	0	WNW	1	bc	*	70	40	-	
Lyons ...	30.29	65	N	2	b	30.16	-1.4	57	53	-3	ENE	1	b	*	75	54	-	
Nice ...	30.02	77	WSE	4	b	30.07	+0.2	70	60	-5	NE	4	b	*	80	52	-	
Perpignan ...	30.18	70	NW	2	c	30.11	-1.4	67	63	-4	NW	2	bc	*	86	61	-	
Biarritz ...	30.24	70	NNE	3	b	30.05	-3.0	63	61	0	SE	3	bc	1	75	61	-	
PENINSULA.																		
Corunna ...																		
Lisbon ...	30.00	75	WNW	6	b	30.04	-0.5	66	61	-6	WNW	5	b	4	80	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

Saturday, 23rd August,

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:

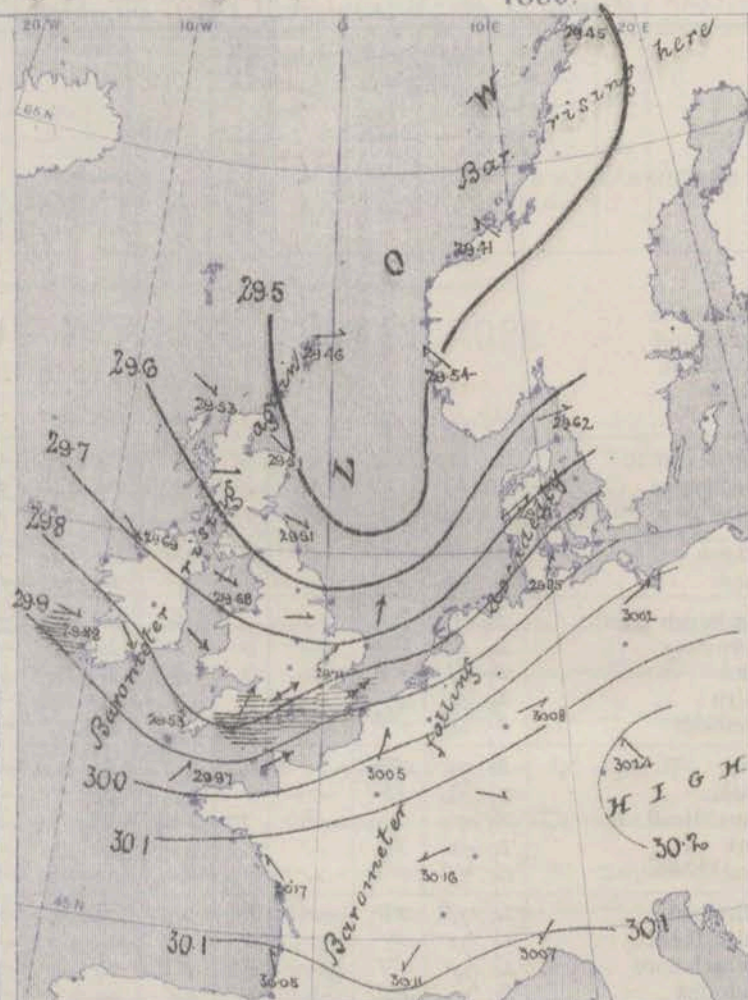
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
	inches.
Sumburgh Head	29.793
Stornoway	29.802
Wick	29.818
Nairn	29.827
Aberdeen	29.835
Leith	29.852
Shields	29.875
York	29.907
Loughborough	29.925
Ardrossan	29.860
Donaghadee	29.877
Holyhead	29.904
Liverpool	29.903
Parsonstown	29.919
Valencia	29.922
Roche's Point	29.922
Pembroke	29.921
Silly	29.958
Jersey	29.976
Hurst Castle	29.960
Dover	29.950
LONDON	29.962
Oxford	29.943
Cambridge	29.934
Yarmouth	29.929



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.

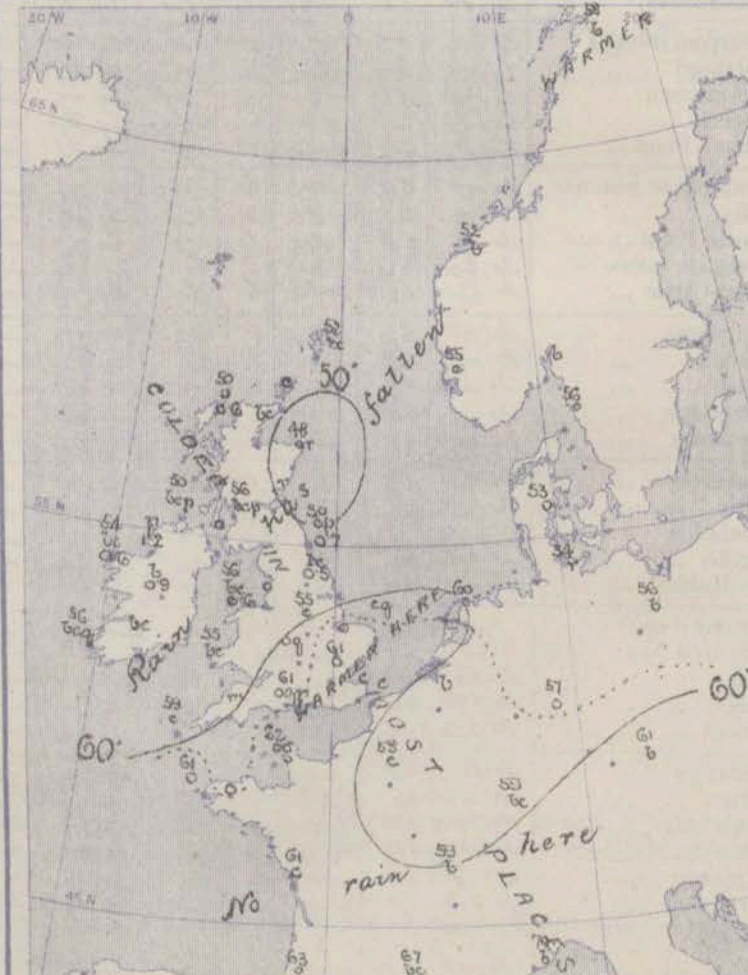
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of August.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	57.9	48.5	53.8	52.0	3.21
Stornoway	58.5	49.0	55.2	53.3	3.57
Wick	61.1	48.5	55.2	53.2	2.35
Nairn	63.4	50.2	55.6	52.7	2.81
Aberdeen	63.1	50.2	56.7	53.6	3.13
Leith	65.8	51.4	57.6	54.6	2.62
Shields	63.5	52.3	57.5	54.9	2.81
York	68.1	51.4	58.0	55.3	2.47
Loughborough	70.5	52.1	59.9	57.4	2.61
Ardrossan	64.0	53.1	57.3	54.9	4.08
Donaghadee	61.8	52.0	57.0	55.5	2.99
Holyhead	64.3	55.0	58.5	56.4	2.89
Liverpool	65.7	54.3	58.7	55.5	2.79
Parsonstown	66.2	51.7	57.6	55.7	3.43
Valencia	65.0	54.1	59.4	57.0	4.65
Roche's Point	68.6	53.9	59.0	56.4	3.59
Pembroke	63.7	55.8	58.9	56.6	2.91
Silly	64.9	57.2	61.1	59.1	2.45
Jersey	69.0	57.4	63.1	60.0	2.25
Hurst Castle	68.1	56.1	61.2	59.1	2.31
Dover	67.1	57.2	62.6	59.0	2.03
LONDON	71.8	53.7	61.4	57.8	2.20
Oxford	69.2	53.4	59.2	56.4	2.33
Cambridge	71.3	52.1	60.2	57.3	2.25
Yarmouth	66.4	55.1	60.8	57.9	2.17

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 30.24 ins. at Munich; 30.1 ins. and upwards over the southern parts of France and Germany.
Lowest 29.5 ins. and less over the west of Norway and the greater part of the North Sea.
Gradients rather steep over the Netherlands, the north of France, the Channel & the S.W. parts of the North Sea but slight elsewhere.
Barometer rising again in the west of our Islands, and also in Norway, but falling elsewhere.

TEMPERATURE

Highest 70° at Nice, 67° at Perpignan, 66° at Lisbon, 65° at Lorient and Biarritz and 62° at Jersey and Cambridge.
Lowest 48° at Aberdeen, 50° at Hornum, Lill, Shields and Malin Head and 51° at Naam and Donaghadee.
The highest maxima registered over our Islands yesterday were 69° at Dungannon, 68° at Cambridge, and 67° in London.

WIND

Light from the N.W. in Scotland, and moderate to fresh from the same quarter on our western coast.
Strong to a gale from the S.W. over the Channel and southeast of England, light or moderate from the same quarter over Denmark and the northern parts of Germany and France.
Light from the E. in the south of France, and also in the west of Norway.

WEATHER

Rain in the east of Scotland and showery in many other parts of the United Kingdom, but fine at most of the Continental stations.
Since yesterday morning 0.7 inch of rain has fallen at Shields, 0.9 inch at Parsonstown, & 1.2 ins. at Mullaghmore.

SEA

Rough or rather so on our south and southwest coasts, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

In addition to the depression over the North Sea some shallow disturbances are apparently lying over the south and southwest of England. As these pass away to the eastward some temporary improvement in the weather will probably take place over England, but conditions are still very unsettled.

FORECASTS

For the 24 hours ending at NOON on 24TH AUGUST 1890.

DISTRICTS.

FORECASTS.

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

W² and NW² winds, moderate, changeable, some showers.

SW² to W² winds, strong, a gale in places, squally, showery.

DISTRICTS.

FORECASTS.

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

Same as Nos. 0 to 2.

NW² winds, strong; squally, some showers.

WARNINGS

The S. Cone was hoisted yesterday in districts 3, 5, 7 to 10, and part of 2.

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
Skudesnes	29.55	58	53	W	7	o	5	Holyhead ...	29.99	60	55	SW	5	o	4
Sunburgh Head	29.44	54	52	W	3	c	5	Valencia ...	29.95	60	55	SW	6	o	5
Stornoway	29.63	55	51	W	4	c	4	Scilly ...	30.10	64	62	SW	2	c	2
Aberdeen	29.70	60	52	W	2	c	1	Jersey ...	30.25	63	57	WNW	3	c	3
Shields	29.85	61	53	SW	4	p	2	Dungeness ...	30.09	64	58	W	6	c	5
Ardrossan	29.82	58	54	WNW	4	o	4	London ...	30.08	67	56	SW	3	c	*
Malin Head	29.81	57	53	WNW	5	o	5	Yarmouth ...	30.00	63	54	WNW	4	c	2
Mullaghmore	29.86	53	53	SW	6	o	4	Rochefort ...	30.37	71	65	WNW	4	c	9
Belmullet	29.89	56	52	WNW	4	o	*								

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

Weather fine and bright over southeastern, southern and southwestern Europe, very changeable elsewhere - clear in some localities, dull in others, and raining in several. A great deal of rain in Ireland and Scotland later, showers in Germany and several parts of England, fine over France as a whole.

Temperature in morning exceeding 80° at several Mediterranean and Adriatic Stations, and ranging between that value and 70° over southern Europe as a whole; below 70° elsewhere; below 60° over the British Kingdom North Sea and northern Europe, and as low as 51° at Sunburgh Head and Stornoway, 52° at Belmullet and Harnosand, 53° at Aberdeen, Bodo and Haparanda, and 54° at Archangel, Kuopio and Malin Head. Rising during day to between 60° and 69° over England and Germany, and to between 80° and 90° over the south of France.

Wind light to fresh from the SWnd over the Baltic, from Wnd over Germany, the North Sea, England, Ireland and the north of France, and fresh from NW. in the north of Scotland; E^{ly} and NE^{ly} over southern and southwestern Europe, and variable over the Mediterranean and southeastern Europe. Backing to the Snd in Ireland later, and increasing greatly in force both there and on our southwestern coasts.

Barometer - Highest 30.0 ins. to 30.3 ins. and more over Spain, the Bay of Biscay, France, south Germany and the southern parts of our Islands, and exceeding 29.5 ins. in Lapland; lowest 29.3 ins. and less in a depression off the west of Norway, 29.9 ins. and less in another in the neighbourhood of Buda Pesth. Falling decidedly in Ireland later, as a new depression advanced towards Ireland from the Atlantic.

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 24th AUGUST 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. Reading at 32° F. and Sea Level.	TEMP. Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	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.)			Max.	Min.			
SCANDINAVIA.																			
Haparanda ...	29.48	44	NE	2	bc	29.48	-.02	52	44	+ 3	NE	4	bc	*	54	29	—		
Hernösand ...	29.45	54	NE	6	o	29.44	-.12	52	48	- 5	NNE	4	c	*	70	52	0.08		
Stockholm ...	29.53	56	SW	2	o	29.36	-.13	60	56	+ 4	WSW	4	c	*	64	48	0.32		
Wisby ...	29.60	56	W	7	r	29.46	-.19	58	55	+ 3	WSW	8	bc	*	64	54	0.16		
Bodö ...	29.49	58	Z	0	b	29.49	+ .04	54	50	- 4	ENE	2	b	1	61	48	—		
Christiansund	29.44	54	ENE	5	b	29.36	-.05	53	50	+ 1	SSW	4	b	2	57	50	—		
Skudesnaes ...	29.25	52	N	4	r	29.33	-.21	54	51	- 1	WNW	8	r	5	59	52	1.90		
Christiania Fjord (Fæder)	29.31	54	ENE	8	r	29.09	-.48	52	51	- 4	NNW	8	r	6	59	52	0.95		
Skagen (The Seaw)	29.31	56	W	3	o	29.24	-.38	53	52	- 1	W	8	o	6	59	52	0.29		
Fanö ...	29.47	56	W	6	b	29.54	-.17	57	52	+ 4	W	5	b	*	61	52	0.32		
Sumburgh Head	29.42	51	WNW	3	o	29.39	-.07	51	50	- 1	Z	0	c	2	57	46	0.01		
Stornoway ...	29.58	52	NW	4	c	29.51	-.02	51	51	+ 1	NW	4	r	4	57	46	0.58		
Wick ...	29.50	50	NNW	2	c	29.45	-.05	55	53	+ 3	NW	1	r	2	56	45	0.20		
Nairn ...	29.55	53	Z	0	bc	29.50	-.01	49	48	- 2	W	2	r	1	56	46	0.17		
Aberdeen ...	29.54	51	NW	2	cp	29.53	+ .02	49	45	+ 1	SW	2	c	1	58	42	0.27		
Leith ...	29.57	53	W	1	o	29.58	+ .04	52	48	+ 2	W	2	b	*	62	42	0.16		
Shields ...	29.58	55	WSW	3	c	29.61	+ .10	53	49	+ 3	W	3	c	2	60	43	0.05		
Spurn Head ...	29.64	58	WSW	4	bc	29.65	+ .11	54	50	- 1	WSW	4	b	4	59	48	0.01		
York ...	29.64	55	W	4	b	29.65	+ .06	54	50	- 1	W	1	bc	*	62	42	0.02		
Loughborough	29.72	57	WNW	3	c	29.71	+ .09	53	50	- 2	WNW	2	bw	*	64	40	—		
Ardrossan ...	29.62	57	WNW	5	b	29.62	+ .06	56	52	0	W	2	bc	1	60	49	—		
Malin Head ...	29.65	54	NW	4	b	29.67	+ .06	52	49	+ 2	NW	5	opq	3	55	49	0.10		
Mullaghmore ...	29.73	55	WNW	5	cpv	29.75	+ .06	54	50	+ 1	NNW	4	c	3	59	50	0.14		
Belmullet ...	29.78	55	WNW	1	c	29.80	+ .05	55	50	+ 1	N	1	b	*	57	49	0.08		
Donaghadee ...	29.67	57	WNW	3	bc	29.68	+ .05	52	50	+ 1	WNW	2	b	0	62	49	0.04		
Liverpool (Bidston)	29.69	55	W	2	r	29.68	+ .05	52	49	- 1	WSW	2	o	3	59	49	0.34		
Holyhead ...	29.73	54	WNW	3	b	29.69	+ .01	57	54	+ 1	NW	4	c	4	61	49	0.01		
Parsonstown ...	29.78	52	Z	0	c	29.77	.00	55	54	+ 2	Z	0	b	*	60	42	0.16		
Valencia ...	29.87	57	WNW	3	cpv	29.85	-.03	56	54	0	NNW	2	bc	3	61	50	0.21		
Roche's Point...	29.84	59	NW	4	b	29.79	-.02	54	50	- 3	NW	4	b	4	60	49	—		
Pembroke (St. Ann's Hd.)	29.79	58	W	5	bc	29.74	-.02	54	52	- 1	NW	3	bc	2	59	52	—		
Scilly ...	29.91	59	WNW	4	bc	29.77	-.06	58	55	- 1	WNW	4	c	3	61	53	0.02		
Prawle Point ...	29.85	58	W	4	bc	29.74	-.04	56	53	- 3	NNW	2	bc	1	64	47	—		
Jersey (St. Aubin's)	29.88	62	W	4	bm	29.78	-.16	59	54	- 3	W	4	bc	3	65	50	0.23		
Hurst Castle ...	29.79	62	WNW	4	bc	29.73	-.04	57	55	- 4	WNW	3	b	2	67	50	0.02		
Dungeness ...	29.71	64	WSW	6	bc	29.71	-.06	55	52	- 7	WNW	3	b	1	64	45	0.01		
London ...	29.74	63	WNW	3	b	29.72	+ .01	56	51	- 5	W	1	bw	*	69	45	0.02		
Oxford ...	29.76	54	W	4	b	29.72	+ .07	52	50	- 9	WSW	1	bw	*	66	44	0.03		
Cambridge ...	29.71	61	W	2	bc	29.71	+ .08	54	51	- 8	SW	1	b	*	67	40	0.09		
Yarmouth ...	29.67	62	WNW	2	b	29.67	+ .03	53	50	- 8	WSW	2	b	2	63	44	0.22		
GERMANY & HOLLAND.																			
Cuxhaven ...	29.59	56	SW	6	r	29.65	-.20	55	54	+ 1	SW	3	b	*	63	54	0.16		
Berlin ...	29.77	64	SW	4	b	29.71	-.31	60	58	+ 4	SW	2	o	*	70	56	—		
Wiesbaden ...	*	*	*	*	*	29.73	-.25	62	60	+ 5	Z	0	o	*	72	61	—		
Munich ...	29.00	63	SW	2	c	29.88	-.36	59	58	- 2	S	5	o	*	73	57	0.32		
The Helder ...	29.68	59	WNW	2	bc	29.65	-.06	58	52	- 2	W	2	bc	3	63	57	0.12		
FRANCE AND BELGIUM.																			
Brussels (9 a.m.)	*	*	*	*	*	29.72	-.17	63	62	+ 2	SW	1	o	*	70	52	0.35		
Cape Gris Nez	29.67	61	W	6	b	29.74	?	55	52	- 6	NW	3	b	3	63	52	0.08		
Paris ...	29.86	67	WSW	2	bc	29.78	-.27	56	55	+ 1	SSW	1	c	*	73	53	0.08		
Brest ...	29.92	62	NNW	2	bc	29.82	-.15	56	52	- 5	W	3	c	3	68	48	0.20		
Lorient ...	29.93	59	WNW	2	o	29.84	-.20	57	53	- 6	NW	2	bc	3	66	55	0.04		
Rochefort ...	30.03	67	WNW	4	bc	29.93	-.24	58	?	- 3	NNW	3	c	?	75	52	?		
Belfort ...	29.92	70	W	1	r	29.76	-.37	59	52	0	W	1	o	*	70	48	0.12		
Lyons ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Nice ...	29.98	71	SW	4	c	29.81	-.26	69	63	- 1	ENE	6	o	0	84	66	—		
Perpignan ...	29.92	71	NNE	2	o	29.80	-.25	70	64	+ 3	NW	2	b	*	79	63	—		
Biarritz ...	30.00	69	N	3	o	29.90	-.15	67	63	+ 4	WNW	5	o	3	73	61	0.12		
PENINSULA.																			
Corunna ...	*	*	*	*	*	29.07	-.06	63	57	+ 1	NNW	2	o	6	?	59	—		
Lisbon ...	30.00	66	NNW	6	b	30.03	-.01	66	61	0	N	4	b	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

Sunday, 24th August,

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

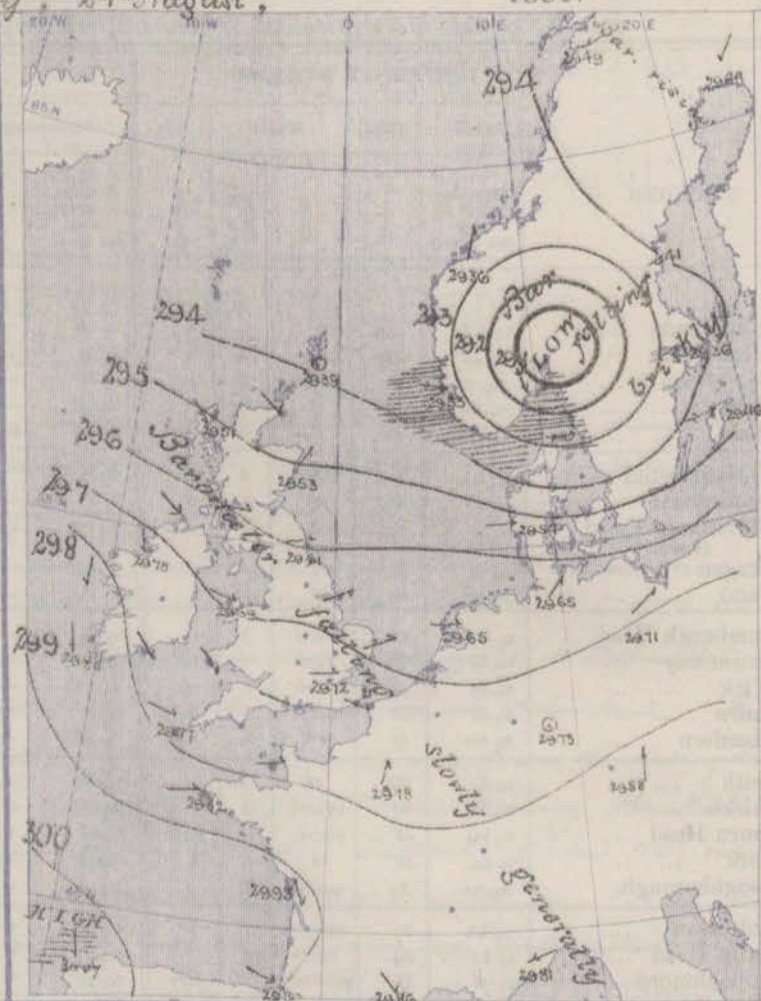
at 8.0 a.m. for the month of August.

During the 15 Years: 1871—1885.

STATIONS.

MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.793
Stornoway	29.802
Wick	29.818
Nairn	29.827
Aberdeen	29.835
Leith	29.852
Shields	29.875
York	29.907
Loughborough	29.925
Ardrossan	29.860
Donaghadee	29.877
Holyhead	29.904
Liverpool	29.903
Parsonstown	29.919
Valencia	29.922
Roche's Point	29.922
Pembroke	29.924
Silly	29.958
Jersey	29.970
Hurst Castle	29.960
Dover	29.950
LONDON	29.952
Oxford	29.943
Cambridge	29.934
Yarmouth	29.929



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.

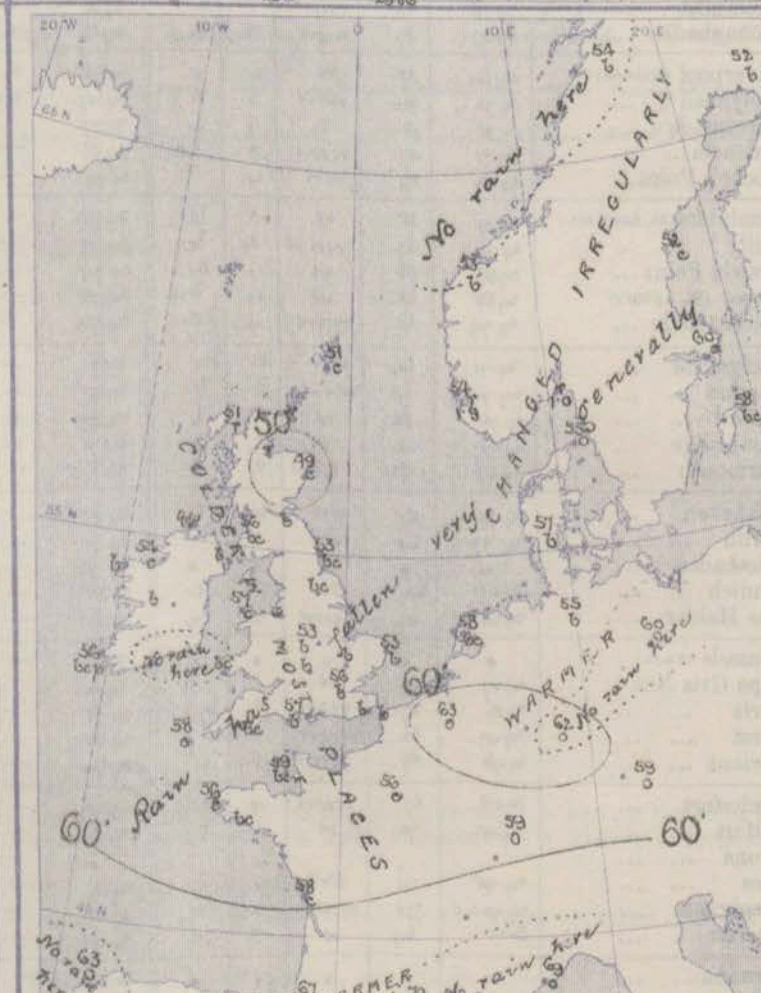
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of August.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	57.9	48.5	53.8	52.0	3.21
Stornoway.....	58.5	49.0	55.2	53.3	3.57
Wick.....	61.1	48.5	55.2	53.2	2.35
Nairn.....	63.4	50.2	55.6	52.7	2.81
Aberdeen.....	63.1	50.2	55.7	53.6	3.13
Leith.....	65.8	51.4	57.6	54.6	2.62
Shields.....	63.5	52.3	57.5	54.9	2.81
York.....	68.1	51.4	58.0	55.3	2.47
Loughborough.....	70.5	52.1	59.9	57.4	2.61
Ardrossan.....	64.0	53.1	57.3	54.9	4.08
Donaghadee.....	61.8	52.0	57.0	55.5	2.99
Holyhead.....	64.3	55.0	58.5	56.4	2.89
Liverpool.....	65.7	54.3	58.7	56.5	2.79
Parsonstown.....	66.2	51.7	57.6	55.7	3.48
Valencia.....	68.0	54.1	59.4	57.0	4.65
Roche's Point.....	66.0	53.9	59.0	56.4	3.59
Pembroke.....	63.7	55.8	58.9	56.0	2.91
Silly.....	64.9	57.2	61.1	59.1	2.45
Jersey.....	69.0	57.4	63.1	60.0	2.26
Hurst Castle.....	68.1	56.1	61.2	59.1	2.31
Dover.....	67.1	57.2	62.6	59.0	2.05
LONDON.....	71.8	53.7	61.4	57.8	2.20
Oxford.....	69.2	53.4	59.2	56.4	2.33
Cambridge.....	71.3	52.1	60.2	57.3	2.25
Yarmouth.....	66.4	55.1	60.8	57.9	2.17

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, in an anticyclone extending from the Atlantic over the western part of the Iberian Peninsula.
Lowest, 29.1 in. and less, in a well defined depression lying over the south of Norway with its centre near Christiania.
Gradients rather steep over Denmark and the south of Scandinavia, but slight elsewhere.
Barometer falling generally, - most in Germany and the south of Scandinavia.

TEMPERATURE

Highest, 64° at Lisbon, 63° at Aken, 62° at Rhenish, 60° at Berlin, 53° at Brussels, and Comma, and 52° at Amsterdam.
Lowest, 49° at Vicar and Aberdeen, 51° at Edinburgh, 52° at London, and 53° at Copenhagen, Hamburg, Berlin, Malmö, Liverpool and Belfast; below 53° in nearly all parts of the United Kingdom.

WIND

Light to fresh from the NW^W on the west coasts of our Islands and France and also in the north of Scotland.
Light from the W^W or SW^W over the Netherlands, North Germany, and the eastern parts of Great Britain.
Strong to gale from W. or NW. in the south of Scandinavia; E^W or NE^W in the north of that peninsula.

WEATHER

Dry over England, the Netherlands and north of France, but raining in the north of Scotland and at some of the Irish stations.
Dull in Germany and the southern parts of Scandinavia and France, with rain in the south of Norway.
Showers fell yesterday over nearly the whole of Western Europe, and heavy rain in the south of Norway.

SEA

Rough off the south of Norway and also at Comma, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 25th AUGst 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

The SOUTH CONE was hoisted yesterday in districts 3, 5, 7 to 10, and part of 2, but has been lowered this morning.

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

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

YESTERDAY'S 2 P.M. REPORTS.

		THER:		WIND						THER:		WIND					
	BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA		
Skudesnaes ...	29.41	59	52	N	1	o	3	Holyhead ...	29.73	60	55	WNW	4	b	4		
Sumburgh Head ...	29.46	52	48	WNW	2	o	3	Valencia ...	29.91	60	57	WNW	4	bcp	4		
Stornoway ...	29.57	55	54	NW	4	bc	4	Scilly ...	29.89	60	57	WNW	5	c	4		
Aberdeen ...	29.51	54	51	ENE	1	sp	1	Jersey ...	29.88	61	60	WSW	5	c	4		
Shields ...	29.50	58	53	WSW	3	c	2	Dungeness ...	29.72	62	61	WSW	8	ry	6		
Ardrossan ...	29.54	59	54	WNW	5	c	4	London ...	29.72	66	58	W	5	bc	8		
Malin Head ...	29.66	54	50	NW	5	b	3	Yarmouth ...	29.64	63	57	WNW	5	cq	4		
Mullaghmore ...	29.74	56	52	WNW	6	cq	4	Rochefort ...	30.12	70	64	WNW	3	c	2		
Belmullet ...	29.75	57	52	WSW	2	bc	*										

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

Weather in morning fine and bright over Southeastern and Southern Europe, and at most of the Mediterranean stations, as well as in some parts of Scandinavia and Ireland, cloudy, or overcast elsewhere, and raining in a few localities. Showery over Western and Northern Europe later, with thunderstorms in several parts of France. Rainfall very heavy at Mendeances and Besancon.

Temperature above 80° at some Algerian and Italian stations, and above 70° on most of the Mediterranean coasts; much lower elsewhere. As low as 48° at Aberdeen, 49° at Haparanda, 50° at Stornoway, Malin Head, Leith and Shields, and below 60° over Northwestern, Northern and Northeastern Europe as a whole. Rising to between 60° and 70° over England later, to upwards of 80° in some parts of Italy, and to upwards of 100° over Algeria.

Wind moderate NW⁵ in the northwest and west of the United Kingdom, N² over the eastern parts of the Spanish Peninsula, SW⁴ fresh to gale over England, moderate in Germany and the Netherlands. W³ over the Baltic, very variable, but mainly E to N³ over Central and Southern Europe. E⁴ breezes spreading over Lapland and the north of Norway, and freshening greatly later in the day.

Barometer highest, 30.0 ins. to 30.2 ins. over Southeastern, Western, and Central Europe; 29.5 ins. and more, over Lapland. Lowest, 29.3 ins. and less, in a depression near Hermand, and 29.5 ins. and less, off our own northeast coasts. Depression in latter region growing deeper later, that near Hermand filling up. Little change elsewhere.

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, 25th August,* 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 : 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.		Sea. (0 to 12.)	SHADE TEMP.		Amount of Rainfall.			
			Direc.	Force. (0 to 12.)				Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)		Weather.	Max.		Min.		
SCANDINAVIA.	Haparanda ...	29.30	50	N	2	0	29.42	-06	52	51	0	NE	2	0	*	57	43	-	
	Hernösand ...	29.35	51	Z	0	0	29.40	-01	54	51	+2	NNE	2	0	*	57	48	-	
	Stockholm ...	29.39	56	SW	8	0	29.50	+14	55	52	-5	SW	4	0	*	64	50	-	
	Wisby ...	29.52	57	SSW	6	0	29.58	+12	57	52	-1	W	4	0	*	64	54	-	
	Bodö ...	29.48	55	Z	0	0	29.45	-04	55	51	+1	ESE	2	0	1	57	48	-	
	Christiansund	29.41	55	NE	5	0	29.43	+07	53	51	0	SSW	1	0	2	57	48	-	
	Skudesnaes ...	29.46	55	W	4	0	29.48	+15	54	50	0	S	4	0	4	53	52	0.32	
	Christiania Fjord (Færd)	29.39	58	WNW	3	0	29.45	+36	56	54	+4	NW	2	0	4	59	?	0.04	
	Skagen (The Scaw)	29.48	54	W	3	0	29.52	+28	53	51	-2	SW	2	0	2	59	48	0.10	
	Fanö ...	29.60	51	Z	0	0	29.58	+04	54	53	-3	E	2	0	*	61	48	0.12	
BRITISH ISLANDS.	Sumburgh Head	29.49	55	NE	1	0	29.44	+08	53	52	+2	Z	0	0	1	57	46	0.02	
	Stornoway ...	29.53	54	NW	4	0	29.46	-05	53	52	+2	Z	0	0	2	58	48	0.24	
	Wick ...	29.53	52	NW	2	0	29.49	+04	54	52	-1	S	2	0	1	60	38	0.08	
	Nairn ...	29.50	58	Z	0	0	29.49	-01	52	51	+3	Z	0	0	1	62	48	0.71	
	Aberdeen ...	29.52	53	SW	1	0	29.51	-02	53	51	+4	ENE	1	0	1	60	47	0.16	
	Leith ...	29.53	54	W	2	0	29.51	-07	52	52	0	Z	0	0	*	62	46	-	
	Shields ...	29.56	58	W	3	0	29.53	-08	49	48	-4	W	2	0	2	64	44	-	
	Spurn Head ...	29.61	58	WNW	3	0	29.58	-07	54	52	0	WNW	3	0	3	60	48	-	
	York ...	29.61	57	WNW	1	0	29.57	-08	52	50	-2	W	1	0	*	65	45	-	
	Loughborough	29.66	59	WNW	3	0	29.65	-06	53	50	0	WSW	3	0	*	63	45	-	
GERMANY & HOLLAND.	Ardrossan ...	29.56	57	WNW	4	0	29.51	-11	56	53	0	WNW	3	0	2	59	51	0.04	
	Malin Head ...	29.63	53	WNW	6	0	29.53	-14	53	50	+1	SW	3	0	2	54	50	0.12	
	Mullaghmore ...	29.74	55	NW	5	0	29.55	-20	52	49	-2	S	4	0	2	58	50	0.19	
	Belmullet ...	29.80	56	NW	3	0	29.50	-30	54	52	-1	S	3	0	*	58	51	0.20	
	Donaghadee ...	29.64	54	N	3	0	29.58	-10	52	51	0	W	3	0	1	61	50	0.11	
	Liverpool (Bidston)	29.65	54	W	4	0	29.61	-07	52	51	0	WSW	3	0	4	58	50	0.30	
	Holyhead ...	29.69	56	WNW	4	0	29.63	-06	54	52	-3	WNW	4	0	4	61	51	0.01	
	Parsonstown ...	29.77	55	SW	1	0	29.62	-15	50	49	-5	SW	1	0	*	60	46	0.04	
	Valencia ...	29.68	57	NW	2	0	29.60	-25	55	55	-1	S	4	0	4	61	50	0.05	
	Roche's Point...	29.79	58	WNW	4	0	29.65	-14	55	52	+1	W	1	0	3	62	50	-	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.75	57	WNW	3	0	29.69	-05	56	53	+2	W	3	0	3	57	52	0.10	
	Scilly ...	29.83	58	WNW	4	0	29.76	-01	59	54	+1	W	4	0	3	60	54	0.10	
	Prawle Point ...	29.74	56	WNW	3	0	29.76	+02	57	55	+1	W	3	0	2	63	48	0.02	
	Jersey (St. Aubin's)	29.75	60	WNW	3	0	29.78	00	56	52	-3	WNW	3	0	3	63	52	0.02	
	Hurst Castle ...	29.69	60	WNW	3	0	29.73	00	55	53	-2	NW	3	0	2	67	48	0.05	
	Dungeness ...	29.68	59	W	3	0	29.69	-02	57	52	+2	WNW	2	0	1	65	42	0.01	
	London ...	29.67	54	WSW	2	0	29.68	-04	52	49	-4	WNW	1	0	*	66	47	0.51	
	Oxford ...	29.68	51	WNW	3	0	29.68	-04	51	49	-1	W	1	0	*	63	45	0.08	
	Cambridge ...	29.67	58	SW	1	0	29.66	-05	54	50	0	W	1	0	*	67	41	0.08	
	Yarmouth ...	29.63	59	S	2	0	29.63	-04	54	51	+1	W	3	0	2	63	45	-	
PENIN- SULA.	Cuxhaven ...	29.67	57	W	2	0	29.64	-01	56	54	+1	SW	2	0	*	62	55	-	
	Berlin ...	29.65	63	W	2	0	29.59	-12	61	59	+1	Z	0	0	*	70	57	0.08	
	Wiesbaden ...	*	*	*	*	*	29.71	-02	57	54	-5	NW	1	0	*	66	54	0.12	
	Munich ...	29.79	55	SW	3	0	29.73	-15	54	53	-5	SW	3	0	*	63	54	1.22	
	The Helder ...	29.65	54	W	1	0	29.61	-04	56	52	-2	?	2	0	3	61	48	-	
	Brussels (9 a.m.)	*	*	*	*	*	29.73	+01	54	52	-9	SW	3	0	*	65	46	0.08	
	Cape Gris Nez	29.78	58	NW	3	0	29.64	-10	55	51	0	WNW	2	0	2	64	52	-	
	Paris ...	29.73	60	W	1	0	29.77	-01	51	49	-5	SSW	2	0	*	?	46	0.08	
	Brest ...	29.84	60	W	3	0	29.82	00	57	55	+1	WNW	2	0	3	68	50	-	
	Lorient ...	29.80	54	NW	4	0	29.85	+01	57	53	0	WNW	3	0	3	63	54	0.20	
FRANCE AND BELGIUM.	Roche fort ...	29.89	63	WNW	4	0	29.93	00	57	55	-1	NE	3	0	2	70	46	-	
	Belfort ...	29.75	62	W	1	0	29.74	-02	59	51	0	W	1	0	*	69	50	0.41	
	Lyons ...	29.75	61	NW	3	0	29.80	00	53	53	0	N	1	0	*	73	52	0.39	
	Nice ...	29.64	74	Z	0	0	29.53	-28	62	56	-6	WNW	6	0	3	79	54	-	
	Perpignan ...	29.79	64	W	3	0	29.80	-06	59	51	-11	NW	5	0	*	82	55	0.75	
	Biarritz ...	29.91	59	W	4	0	29.93	+03	62	57	-5	NNE	4	0	4	68	50	0.75	
PENIN- SULA.	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-	
	Lisbon ...	30.04	63	N	5	0	30.11	+08	60	54	-6	N	5	0	2	72	57	-	

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

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

WEATHER CHARTS

for 8 a.m. on

Monday, 25th August.

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:

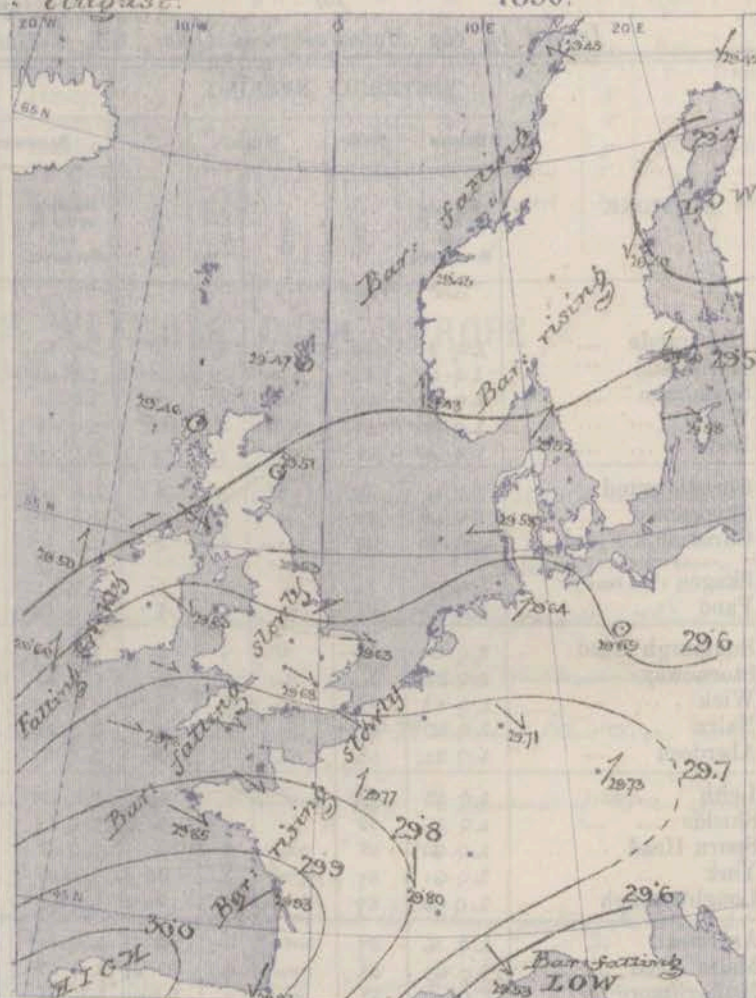
■ = Rough. ■ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1874—1885.

STATIONS.	MEAN READINGS.
	INS.
Sumburgh Head	29.793
Stornoway	29.802
Wick	29.813
Nairn	29.827
Aberdeen	29.835
Leith	29.852
Shields	29.875
York	29.907
Loughborough	29.925
Ardrossan	29.860
Donaghadee	29.877
Holyhead	29.904
Liverpool	29.903
Parsonstown	29.919
Valencia	29.922
Roche's Point	29.922
Pembroke	29.921
Scilly	29.958
Jersey	29.976
Hurst Castle	29.960
Dover	29.950
LONDON	29.952
Oxford	29.943
Cambridge	29.934
Yarmouth	29.929



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.

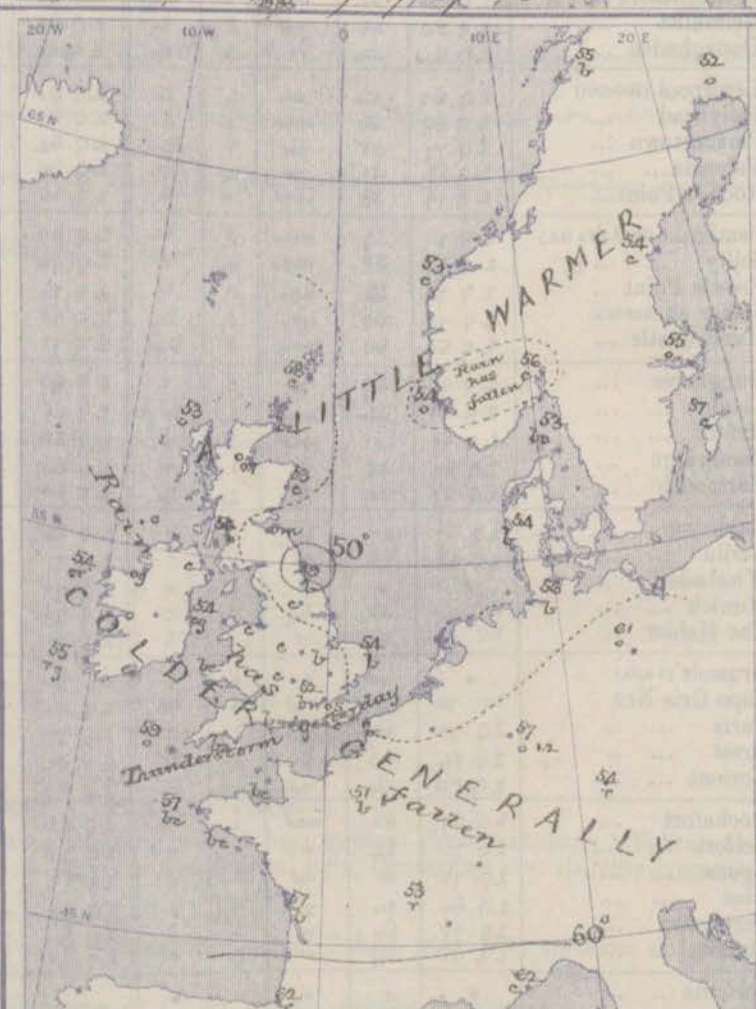
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of August.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	57.9	48.5	53.8	52.0	3.21
Stornoway	58.5	49.0	55.2	53.3	3.57
Wick	61.1	48.5	55.2	53.2	2.35
Nairn	63.4	50.2	55.6	52.7	2.81
Aberdeen	63.1	50.2	56.7	53.6	3.13
Leith	65.8	51.4	57.6	54.6	2.62
Shields	63.5	52.3	57.5	54.9	2.81
York	68.1	51.4	58.0	55.3	2.47
Loughborough	70.5	52.1	59.9	57.4	2.61
Ardrossan	64.0	53.1	57.3	54.9	4.08
Donaghadee.....	61.8	52.0	57.0	55.5	2.99
Holyhead	64.3	55.0	58.5	56.4	2.89
Liverpool	65.7	54.3	58.7	55.5	2.79
Parsonstown	66.2	51.7	57.6	55.7	3.48
Valencia	66.0	54.1	59.4	57.0	4.65
Roche's Point.....	66.6	53.9	59.0	56.4	3.59
Pembroke	63.7	55.8	58.9	56.6	2.91
Scilly	64.9	57.2	61.1	59.1	2.45
Jersey	69.0	57.4	63.1	60.9	2.26
Hurst Castle	68.1	56.1	61.2	59.1	2.31
Dover	67.1	57.2	62.6	59.0	2.03
LONDON	71.8	53.7	61.4	57.8	2.20
Oxford	69.2	53.4	59.2	56.4	2.33
Cambridge	71.3	52.1	60.2	57.3	2.25
Yarmouth	66.4	55.1	60.8	57.9	2.17

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



GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest, 29.9 in. to 30.1 in., over Spain and the southern parts of the Bay of Biscay. Lowest, 29.5 in. and less, over the greater part of Sweden and Scandinavia, 29.4 in. over the Gulf of Bothnia. Gradients moderate to slight. Barometer falling decidedly in Ireland, changing irregularly elsewhere.
TEMPERATURE	Highest, 62° at Nice, 61° at Berlin, 60° at Lyons, and 59° at Seilly. Lowest, 43° at Shields, 51° at Oxford, and 52° in London and at York and Mullaghmore. It rose to between 60° and 67° over England yesterday, but fell fast again at night—the shade minimum reported being 38° at Wick, 41° at Loughlinch, and 42° at Clongowes.
WIND	Light to moderate in force generally — S ² and SW ² in Ireland, W ² over England and the Channel, N ² in the southwest of France and over Spain. In Scotland it is very light and variable, in Norway S ² , and in Lapland E ² .
WEATHER	Fine and bright over France and England, dull and unsettled as a whole elsewhere, rainy in the east of Ireland and over South Germany. Thunderstorms have been very prevalent in the east, heaviest rainfalls reported 12 in. at Munich, 0.7 in. at Kilm, and 0.5 in. in London.
SEA	Moderate in the east, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The present improvement in the weather over England seems likely to prove very temporary, and will probably be succeeded by close rainy conditions, if not thunder, in the course of the next twenty-four hours.

FORECASTS

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

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	S ² and SE ² winds; very unsettled, rain at times.
1	SCOTLAND EAST	
2	ENGLAND N.E.	Same as No 5
3	ENGLAND EAST	
4	MIDLAND COUNTIES	Varying W ² to S ² winds, light to fresh, fine to rainy, perhaps thunder.
5	ENGLAND SOUTH	

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	Same as No 0 and 1.
7	ENGLAND N.W.	
8	ENGLAND S.W.	SW ² to NW ² winds; unsettled, rain at times.
9	IRELAND NORTH	
10	IRELAND SOUTH	
WARNINGS		NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

THER: WIND								THER: WIND							
BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA	
Skudesnaes ...	29.44	55	52	WNW	6	✓	5	Holyhead ...	29.71	58	54	NW	3	6	3
Sumburgh Head ...								Valencia ...							
Stornoway ...	29.51	55	53	NW	4	c	4	Scilly ...							
Aberdeen ...								Jersey ...	29.76	61	53	WNW	3	60	3
Shields ...								Dungeness ...	29.69	59	52	NW	4	c	2
Ardrossan ...								London ...							*
Malin Head ...	29.66	53	50	NW	6	0	3	Yarmouth ...							
Mullaghmore ...								Rochefort ...	29.92	67	60	WNW	3	c	2
Belmullet ...	29.83	57	53	NW	4	6	*								

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

Weather in morning fine and bright over eastern, southeastern and the greater part of southern Europe, as well as over England, the eastern portion of Ireland, and the northwestern parts of Scandinavia, cloudy and unsettled over Germany and France, rainy in Scotland, showery in the north and west of Ireland. Heavy showers later except over Sweden and the north of England, thunder and lightning in the south of England and in several parts of France and Germany.

Temperature in morning exceeding 80° at Trieste, Brindisi, Cagliari, Malta, Tunis and Biskra and exceeding 70° at nearly all the Mediterranean stations; much lower over the northern half of Europe and as low as 49° at Ulenborg, Aberdeen and Nairn, 51° at Moscow, Sumburgh Head and Stornoway, 52° at Donaghadee, Liverpool, Oxford and Yarmouth. Rising during day to between 60 and 67° over St. Britain and to upwards of 70° over the southwest and south of France, but falling fast again over St. Britain towards night.

Wind light to moderate in most places—W³ to N⁴ over the British Islands, the Bay of Biscay and Spain, S² over Germany and western Russia, NE¹ over Lapland and the north of Sweden. A W³ gale reported at Skudesnaes, the Skaw and Ulsby, and a N⁴ gale at Tunder, the gale moderating later, not much change elsewhere.

Barometer highest 29.9 ins. to 30.1 ins. over Spain and the Bay of Biscay, as well as over the whole of southeastern Europe and the Black Sea; lowest about 29.1 ins. near Christiania, below 29.6 ins. over Scotland, Scandinavia, the Baltic and northern Russia. Shallow local depressions over the British Isles, France and north Germany. Very little change later except in the south of Norway where the depression filled up.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 17TH TO 23RD AUGUST 1890.

The weather of the past week has remained very changeable and unsettled, with considerable falls of rain in most parts of the Kingdom, and thunderstorms at many of the English and Scotch stations.

At the commencement of the week barometrical pressure was highest in an anticyclone lying over Germany, and lowest in some depressions which were passing eastwards across Scandinavia. A shallow disturbance was, however, lying over the north of Spain, and on the 18th this system travelled northwards across France to the neighbourhood of Calais, its progress being attended by thunderstorms and heavy rain over France and the south of England. Cold NE⁴ winds were experienced over the greater part of England, and on the 19th the thermometer in London failed to reach 59°.

On the 20th the small depression gradually filled up and an anticyclone appeared over the Bay of Biscay and France. Large cyclonic disturbances now began to skirt our extreme northwest and north coasts on their way to the Scandinavian Peninsula, and SW⁴ winds set in generally, with showery weather in most districts, but with some increase in temperature. On the night of the 22nd when a well marked secondary depression passed eastwards across our Islands, heavy rain was experienced in the northern parts of the Kingdom, and fresh to strong SW⁴ gales were reported over the Bristol and English Channels. At the close of the week the barometer was again beginning to fall in the extreme west, and further disturbances were apparently advancing from the Atlantic.

Temperature has been mostly below the average, but on the 17th and 18th the daily maxima over England were a little above 70°. In the extreme north and northwest the thermometer seldom reached 60°.

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 26th August.* 1890.
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.		BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 3.)		SHADE TEMP.		
	Reading at 32° F. and Sea Level.	Dry.	Dir.	Force. (0 to 12.)			Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)				Max.	Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ...	29.49	50	N/E	2	C	29.51	+0.9	51	51	-1	N/E	2	O	.	.	59	45	0.25
	Hernösand ...	29.51	50	S	0	O	29.52	+1.2	54	52	0	S/E	2	C	.	.	61	43	0.04
	Stockholm ...	29.55	53	S/W	2	O	29.61	+1.1	54	51	-1	X	0	bc	.	.	64	50	-
	Wisby ...	29.59	54	S/W	4	bc	29.60	+1.0	53	50	+2	N/W	2	bc	.	.	61	52	-
	Bodö ...	29.49	50	S	0	C	29.49	+0.4	54	50	-1	E	2	C	.	.	59	50	-
	Christiansund	29.45	50	N/E	3	bc	29.49	+0.4	53	50	0	S/E	2	C	.	.	59	48	-
	Skudesnaes ...	29.50	53	S	1	C	29.45	-0.3	54	49	0	S/E	6	bc	.	.	59	52	0.16
	Christiania Fjord (Færd)	29.50	50	N/W	5	bc	29.52	+0.7	56	52	0	S/W	2	C	.	.	59	50	-
	Skagen (The Scaw)	29.55	55	S/W	1	bc	29.54	+0.2	55	52	+2	S/W	1	bc	.	.	62	46	-
	Fanö ...	29.58	51	S/E	2	bc	29.52	-0.6	52	51	-2	S	4	T	.	.	61	50	0.12
BRITISH ISLANDS.	Sumburgh Head	29.43	54	S/E	1	bc	29.33	-1.4	46	44	-7	E	2	bc	.	.	58	46	0.09
	Stornoway ...	29.32	53	S	3	bc	29.16	-3.0	51	50	-2	S/E	3	T	.	.	58	48	0.02
	Wick ...	29.38	54	S/E	3	C	29.23	-2.6	53	54	+1	S	4	C	.	.	60	50	0.09
	Nairn ...	29.33	53	S	0	C	29.20	-2.9	50	49	-2	S	0	T	.	.	60	47	0.38
	Aberdeen ...	29.40	54	S/E	2	C	29.22	-2.9	51	49	-2	S/E	2	OT	.	.	59	50	0.17
	Leith ...	29.39	54	S/W	1	C	29.21	-3.0	52	50	0	W	1	bc m	.	.	62	43	0.20
	Shields ...	29.44	56	W	1	C	29.23	-3.0	50	48	+1	N/W	3	C	.	.	61	47	0.33
	Spurn Head ...	29.52	58	S/W	3	C	29.34	-2.4	54	51	0	S/W	6	bc	.	.	61	49	0.12
	York ...	29.51	57	W	1	C	29.32	-2.5	53	50	+1	S/W	3	bc	.	.	63	49	0.20
	Loughborough	29.52	58	N/W	3	O	29.42	-2.3	54	51	+1	N/W	4	bc	.	.	65	47	0.11
GERMANY & HOLLAND.	Ardrossan ...	29.36	53	S/E	4	bc	29.20	-3.1	53	51	-3	S/W	2	C	.	.	59	45	0.55
	Malin Head ...	29.24	52	W	6	OT	29.17	-3.6	50	48	-3	S/W	4	cp	.	.	52	48	0.43
	Mullaghmore ...	29.35	55	N/W	6	cp	29.22	-3.3	51	48	-1	N/W	5	cp m	.	.	57	47	0.72
	Belmullet ...	29.41	55	N/W	4	bc	29.24	-2.6	52	49	-2	W	3	C	.	.	57	49	0.72
	Donaghadee ...	29.32	51	S/W	4	T	29.26	-3.2	52	50	0	S/W	4	bc	.	.	60	50	0.25
	Liverpool (Bidston)	29.46	53	S	2	T	29.34	-2.7	54	50	+2	N/W	3	C	.	.	58	50	0.20
	Holyhead ...	29.38	54	S	6	m p g	29.34	-2.9	52	50	-2	N/W	5	cp	.	.	60	50	0.75
	Parsonstown ...	29.44	56	W	1	bc	29.33	-2.5	52	50	+2	S/W	1	C	.	.	58	47	0.32
	Valencia ...	29.59	57	N/W	4	omg	29.42	-1.8	53	52	-2	N/W	3	cp	.	.	60	50	0.35
	Roche's Point ...	29.51	59	N/W	5	bc	29.44	-2.1	53	51	0	W	4	C	.	.	60	50	0.15
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.44	57	N/W	7	C	29.43	-2.6	56	53	0	N/W	6	bc p	.	.	58	54	0.14
	Scilly ...	29.57	58	N/W	7	O	29.58	-1.8	58	56	-1	N/W	5	og	.	.	59	51	0.09
	Prawle Point ...	29.56	54	S/W	7	bc	29.57	-1.9	56	53	-1	N/W	7	bc	.	.	60	51	0.09
	Jersey (St. Aubin's)	29.74	61	N/W	3	C	29.68	-1.0	60	54	+4	W	7	bc m	.	.	63	55	0.21
	Hurst Castle ...	29.65	59	N/W	6	C	29.56	-1.7	58	56	+3	W	6	bc	.	.	64	55	0.14
	Dungeness ...	29.64	60	N/W	6	bc	29.52	-1.7	59	54	+2	N/W	6	C	.	.	65	52	0.06
	London ...	29.62	57	S/W	2	O	29.51	-1.7	56	52	+4	S/W	3	bc	.	.	66	48	0.04
	Oxford ...	29.55	54	S/W	3	T	29.49	-1.5	53	50	+2	S/W	3	O	.	.	64	48	0.05
	Cambridge ...	29.57	57	S/W	2	O	29.46	-2.0	52	50	-2	S/W	2	O	.	.	67	47	0.08
	Yarmouth ...	29.59	61	S/W	2	bc	29.44	-1.9	54	51	0	W	4	C	.	.	63	50	0.06
PENINSULA.	Cuxhaven ...	29.66	58	N/W	2	bc	29.61	-0.3	52	50	-4	S	3	bc	.	.	62	50	-
	Berlin ...	29.67	57	N/W	2	O	29.69	+1.0	56	52	-5	N/W	2	O	.	.	63	54	-
	Wiesbaden ...	.	.	.	.	.	29.76	+0.5	51	49	-6	S	0	C	.	.	64	45	0.16
	Munich ...	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	The Helder ...	29.63	58	W	2	bc	29.39	-2.2	53	53	-1	S	4	O	.	.	61	52	0.08
	Brussels (9 a.m.)	29.58	58	W	5	bc	29.58	-1.5	54	52	0	S/W	4	O	.	.	64	49	0.04
	Cape Gris Nez	29.63	59	W	5	bc	29.54	-1.0	58	53	+3	N/W	6	bc	.	.	63	54	0.06
	Paris ...	29.80	59	N/W	2	bc	29.69	-0.8	56	53	+5	S/W	2	C	.	.	68	51	0.08
	Brest ...	29.71	59	S/W	5	bc	29.55	-2.7	59	57	+2	W	4	T	.	.	68	50	0.12
	Lorient ...	29.80	60	N/E	5	T	29.70	-0.7	59	54	+2	N/W	4	O	.	.	64	57	0.12
GERMANY & HOLLAND.	Rocheport ...	29.57	66	W	5	O	29.53	0.0	63	58	+6	N/W	6	O	.	.	68	57	0.08
	Belfort ...	29.73	59	W	1	bc	29.82	+0.8	59	53	-2	W	2	bc	.	.	65	43	-
	Lyons ...	29.86	57	N/W	1	bc	29.94	+1.4	54	50	+1	S	1	O	.	.	63	54	0.12
	Nice ...	29.78	59	N/W	7	C	29.73	+1.0	62	47	0	S/E	6	bc	.	.	72	53	0.20
	Perpignan ...	29.94	64	N/W	5	bc	30.02	+2.2	60	55	+1	S/W	2	bc	.	.	70	50	-
	Biarritz ...	30.04	64	N/W	5	O	29.99	+0.6	65	58	+3	N/W	4	bc	.	.	68	59	0.12
	Corunna ...	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Lisbon ...	30.11	62	N/W	5	bc	30.09	-0.2	62	56	+2	N/E	4	bc	.	.	70	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

Tuesday, 26th August

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:

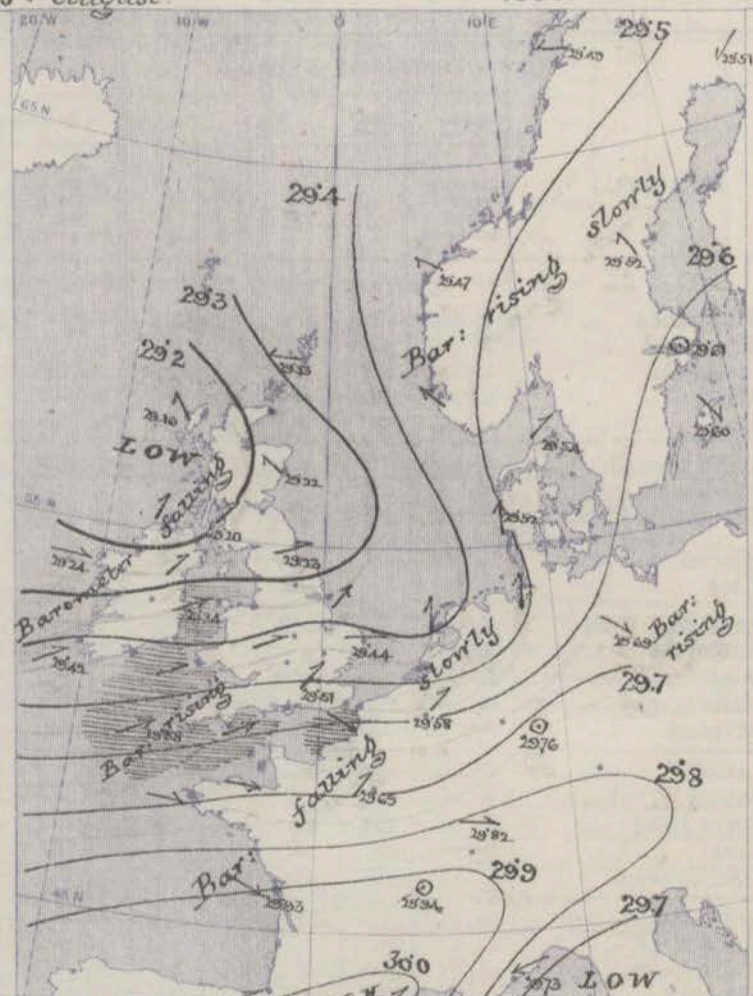
■ = Rough. ■ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.793
Stornoway	29.802
Wick	29.815
Nairn	29.827
Aberdeen	29.836
Leith	29.852
Shields	29.875
York	29.907
Loughborough	29.925
Ardrossan	29.860
Donaghadee	29.877
Holyhead	29.904
Liverpool	29.903
Parsonstown	29.919
Valencia	29.922
Roche's Point	29.922
Pembroke	29.921
Seilly	29.958
Jersey	29.976
Hurst Castle	29.960
Dover	29.950
LONDON	29.952
Oxford	29.943
Cambridge	29.934
Yarmouth	29.920



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.

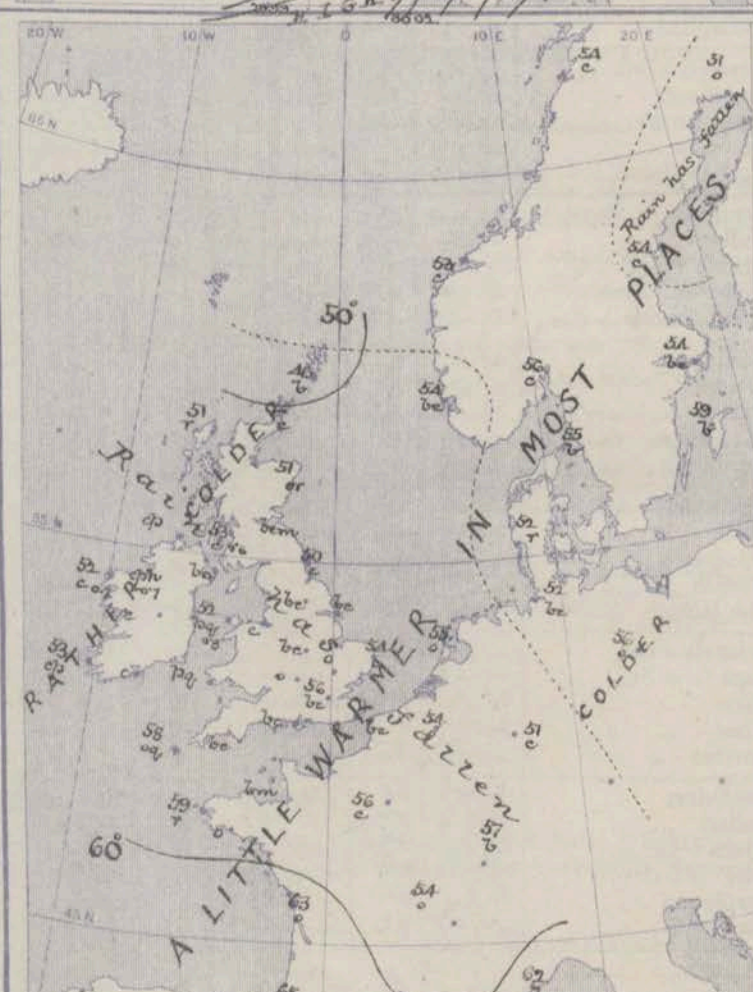
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of August.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Dry. at 8 a.m.	Wet.	
Sumburgh Head	57.9	48.5	53.8	52.0	3.21
Stornoway	58.5	49.0	55.2	53.3	3.57
Wick	61.1	48.5	55.2	53.2	2.35
Nairn	63.4	50.2	55.6	52.7	2.81
Aberdeen	63.1	50.2	56.7	53.6	3.13
Leith	65.8	51.4	57.6	54.6	2.62
Shields	63.5	52.3	57.5	54.9	2.81
York	68.1	51.4	58.0	55.3	2.47
Loughborough	70.5	52.1	59.9	57.4	2.61
Ardrossan	64.0	53.1	57.3	54.9	4.08
Donaghadee	61.8	52.0	57.0	55.5	2.90
Holyhead	64.3	55.9	58.5	56.4	2.89
Liverpool	65.7	54.3	58.7	55.5	2.70
Parsonstown	66.2	51.7	57.6	54.7	3.48
Valencia	65.0	54.1	59.4	57.0	4.65
Roche's Point	66.6	53.9	59.0	56.4	3.59
Pembroke	68.7	55.8	58.9	56.6	2.91
Seilly	64.9	57.2	61.1	59.1	2.45
Jersey	69.0	67.4	63.1	60.0	2.26
Hurst Castle	68.1	56.1	61.2	59.1	2.31
Dover	67.1	57.2	62.6	59.0	2.03
LONDON	71.8	53.7	61.4	57.8	2.20
Oxford	69.2	53.4	59.2	56.4	2.33
Cambridge	71.3	52.1	60.2	57.3	2.25
Yarmouth	66.4	55.1	60.8	57.9	2.17

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: (and more) to 29.8 in: over Spain and the southern parts of the Bay of Biscay and France.
Lowest, 29.2 in: and less, in a large, but not deep, depression lying off our north-west coast; 29.4 in: at the Helder.
Variations moderate in the south, slight in the north.
Barometer unsteady — falling again at Valencia.

TEMPERATURE

Highest, 65° at Biarritz, 63° at Rochefort, 62° at Lisbon and Nice, 58° at Sicily, 56° in London, Paris, and Berlin.
Lowest, 46° at Sumburgh Hd., 50° at Shields and Malin Head, 51° at Mullaghmore, Aberdeen and Stenouay.
It rose to between 60° and 67° over Great Britain yesterday afternoon, and did not fall so low subsequently as on the previous night.

WIND

W^{ly}, fresh over the Bay of Biscay, strong in the Channel — S.W.^{ly} over the northern parts of Ireland and England.
S.E.^{ly} in Scotland, and S.E. to E^{ly} in the west of Norway.

WEATHER

It blew a moderate gale from W^{ly} in the Channel during the night.
Fine and bright at Lisbon and in the south of France, cloudy, changeable, and unsettled elsewhere, with rain in many places.
Rain has fallen generally — heavily in the northwest of Ireland and at Holyhead.

SEA

Rough in the English and Irish Channels, moderate on our north-west coasts, slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The disturbance which reached our northwestern coasts yesterday has spread eastwards to the North Sea, and other systems appear to be advancing towards our western coasts from the Atlantic.

The general appearance is very unfavourable — much rain being probable, with low temperatures.

FORECASTS

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

DISTRICTS.

FORECASTS.

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

SE^{ly} and E^{ly} winds; a great deal of rain, some thunder.
S^{ly} and SW^{ly} winds, becoming very unsettled, rain at times.
W^{ly} and SW^{ly} winds, strong to moderate; heavy showers, thunder locally. Cold for time of year.

DISTRICTS.

FORECASTS.

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

Same as Nos 0 and 1.

Same as Nos 3 to 5.

Varying W^{ly} winds; rainy, very unsettled.

WARNINGS

NONE ISSUED

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

YESTERDAY'S 2 P.M. REPORTS.

	THER: WIND								THER: WIND						
	BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA
Skudesnaes ...	29.50	57	52	SEW	1	C	2	Holyhead ...	29.55	58	52	SEW	5	CGG	4
Sumburgh Head ...	29.45	56	54	2	0	C	1	Valencia ...	29.58	59	55	NW	4	CG	4
Stornoway ...	29.58	58	54	5	3	C	3	Scilly ...	29.67	57	57	SEW	5	T	3
Aberdeen ...	29.46	54	50	SE	3	C	1	Jersey ...	29.80	63	55	W	4	bc	3
Shields ...	29.47	59	54	E	2	T	2	Dungeness ...	29.67	64	56	WSW	4	bc	3
Ardrossan ...	29.45	57	56	SEW	3	0	2	London ...	29.64	64	55	SEW	3	bc	*
Mulin Head ...	29.57	50	50	SE	4	OT	2	Yarmouth ...	29.62	62	55	SW	2	bc	2
Mullaghmore ...	29.51	53	51	SE	7	OTG	5	Rochefort ...	29.91	68	58	WNW	4	bc	?
Belmullet ...	29.39	57	50	WNW	6	bc	*								

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

Weather still fine and bright over Southeastern Europe and at many of the Mediterranean and Spanish stations, temporarily clear and bright in many parts of France and England; cloudy and mottled elsewhere, with rain over the southern part of France and Germany and in the west of Ireland. Rain falling later throughout the United Kingdom and France—heavily at the northern stations, thunder occurring at Holyhead and Wick.

Temperature in morning above 80° on the shores of the Adriatic, at Rome, Cagliari, and some Algerian stations, and above 70° on the southern and eastern shores of the Mediterranean generally, and most parts of the Italian Peninsula. Much lower elsewhere; below 60° over the whole of Northern and Northwestern Europe, and as low as 49° at Shields, 50° at Paros, 51° at Oxford, Paris, and Archangel. Rising during day to between 60° and 68° over England and the greater part of France, to 70° at Lisbon and Perpignan, and to 72° at Nice.

Wind extremely variable over Europe generally, (1) S³ in Ireland, W² over England, N² over Spain, (2) S³ over Russia, SW² over the Baltic, (3) Separate cyclonic circulations prevailing over Gulf of Bothnia, North Germany, and the northern parts of the Mediterranean. Turning to NW in Ireland later, and becoming strong to a gale from the W² in the English Channel.

Barometer, highest 29.9 ins. to 30.1 ins. both over the extreme southern and southeastern parts of Europe; lowest 29.4 ins. and less, in a depression over the Gulf of Bothnia, and 29.6 ins. and less, in two others—one over North Germany, the other over the northern parts of the Mediterranean. New "V" shaped disturbances advancing northwards up our western coasts later, and spreading eastwards towards 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 *Wednesday, 27th August, 1890.*
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

Issued by 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 32° F. and Sea Level.	TEMP. Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		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.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...	29.62	52	Z	0	b	29.64	+13	50	49	-1	NE	2	c	*	59	46	0.12
	Hernösand ...	29.60	50	Z	0	b	29.48	-04	54	53	0	NE	4	0	*	64	45	-
	Stockholm ...	29.58	54	Z	0	bc	29.35	-26	47	46	-7	NW	6	7	*	64	48	0.20
	Wisby ...	29.50	57	NE	2	0	29.39	-21	57	51	-2	NNW	4	bc	*	63	50	-
	Bodö ...	29.58	57	Z	0	c	29.58	+09	56	50	+2	E	2	c	1	59	50	-
	Christiansund ...	29.50	53	ESE	2	b	29.42	-05	53	50	0	ESE	3	b	2	57	48	-
	Skudesnaes ...	29.36	59	E	3	0	29.31	-14	56	51	+2	ESE	4	0	3	63	54	0.04
	Christiania Fjord (Fæder)	29.91	57	ESE	1	b	29.38	-14	55	54	-1	ESE	3	7	3	59	55	-
	Skagen (The Seaw)	29.46	55	S	2	bc	29.34	-20	56	54	+1	S	1	bc	2	64	52	0.16
	Fanö ...	29.43	54	SW	4	bc	29.28	-24	54	53	+2	SSW	4	c	*	63	52	0.28
BRITISH ISLANDS.	Sumburgh Head	29.31	53	E	4	c	29.30	-03	54	52	+8	ESE	2	0	4	58	46	0.01
	Stornoway ...	29.23	52	NE	4	7	29.30	+14	54	52	+3	NE	7	0	6	56	50	0.10
	Wick ...	29.20	53	ESE	3	7	29.27	+04	55	54	0	E	2	c	2	58	50	0.65
	Nairn ...	29.18	51	Z	0	7	29.20	-00	53	52	+3	ESE	1	0	2	53	47	1.32
	Aberdeen ...	29.16	52	E	1	0	29.22	-00	54	51	+3	N	1	bc	2	55	44	0.27
	Leith ...	29.18	54	W	1	c	29.22	+01	51	49	-1	W	1	7m	*	59	47	0.02
	Shields ...	29.23	56	SW	2	c	29.25	+02	48	46	-2	WSW	2	6cm	2	62	43	0.03
	Spurn Head ...	29.31	55	SW	3	c	29.33	-01	53	52	-1	WSW	5	6	4	62	48	0.08
	York ...	29.30	54	W	1	c	29.31	-01	53	50	0	SW	2	6	*	59	46	0.45
	Loughborough	29.35	56	SW	3	c	29.38	-04	54	50	0	WSW	3	6w	*	63	46	-
GERMANY & HOLLAND.	Ardrossan ...	29.20	55	SW	2	bc	29.19	-01	53	50	0	Z	0	0	2	60	50	0.09
	Malin Head ...	29.21	54	NW	2	b	29.19	+02	53	53	+3	NNW	6	07	3	57	49	0.42
	Mullaghmore ...	29.23	54	WNW	2	c	29.33	+11	52	51	+1	W	4	07g	3	56	46	0.06
	Belmullet ...	29.23	52	WNW	2	0	29.39	+15	54	52	+2	NNW	2	0	*	55	43	0.40
	Donaghadee ...	29.22	55	E	2	c	29.27	+01	48	48	-4	WSW	3	0	2	60	47	0.04
	Liverpool (Bidston)	29.27	55	SW	4	c	29.33	-01	52	49	-2	WSW	3	0	3	60	47	0.10
	Holyhead ...	29.27	50	W	3	c	29.33	-01	54	51	+2	W	3	bc	3	60	49	0.12
	Parsonstown ...	29.28	54	SW	1	c	29.39	+06	50	48	-2	Z	0	bc	*	56	43	0.36
	Valencia ...	29.37	56	W	3	6cp	29.47	+08	52	51	-1	SW	1	6cp	2	59	45	0.41
	Roche's Point...	29.37	57	W	4	b	29.40	-04	50	47	-5	NW	3	bc	4	59	49	-
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.34	56	W	6	c	29.37	-06	55	54	-1	WSW	4	6c9	4	57	52	0.07
	Scilly ...	29.30	56	WSW	6	0	29.43	-15	56	55	-2	WNW	4	c9	4	60	51	0.18
	Prawle Point...	29.48	57	WSW	7	0	29.44	-13	57	54	+1	W	4	c	3	60	51	0.25
	Jersey (St. Aubin's)	29.67	60	WSW	6	09pm	29.52	-16	58	55	-2	WSW	4	09pm	3	64	53	0.26
	Hurst Castle ...	29.49	59	WSW	8	c9p	29.46	-10	57	53	-1	W	4	c	4	62	53	0.85
	Dungeness ...	29.49	59	W	8	c	29.46	-06	55	54	-4	WSW	3	c	3	64	54	0.60
	London ...	29.46	56	SW	4	07	29.45	-06	55	52	-1	WSW	2	0	*	63	50	0.10
	Oxford ...	29.39	52	SW	4	0	29.43	-06	53	50	0	SW	2	6	*	61	47	0.15
	Cambridge ...	29.41	56	S	2	7	29.42	-04	54	52	+2	SSW	2	6	*	61	44	0.09
	Yarmouth ...	29.39	59	SW	4	bc	29.40	-04	54	50	0	WSW	3	6	3	62	48	-
GERMANY & HOLLAND.	Cuxhaven ...	29.51	56	SW	4	7	29.44	-17	56	55	+4	SW	5	7	*	62	57	0.20
	Berlin ...	29.65	60	SW	3	7	29.65	-04	58	55	+2	W	4	c	*	66	52	0.08
	Wiesbaden ...	*	*	*	*	*	29.70	-06	60	56	+4	SSW	4	0	*	63	57	0.04
	Munich ...	29.93	55	W	3	c	29.92	-01	57	53	-4	SE	5	bc	*	61	48	0.04
	The Helder ...	29.44	58	SW	4	0	29.39	-00	57	52	+2	WSW	4	0	4	59	55	0.51
	Brussels (9 a.m.)	*	*	*	*	*	29.56	-02	54	53	0	SSW	6	7	*	62	53	0.28
	Cape Gris Nez	29.85	57	W	7	0	29.49	-05	56	55	-2	W	5	7	5	63	54	0.35
	Paris ...	29.74	63	WSW	3	0	29.68	-01	58	55	+2	SW	3	0	*	66	57	0.12
	Brest ...	29.64	62	SW	5	0	29.54	-23	57	56	-2	WSW	2	7	3	70	52	0.24
	Lorient ...	29.73	62	W	5	0	29.56	-22	59	54	0	SW	4	7	5	63	57	0.24
FRANCE AND BELGIUM.	Rochefort ...	29.94	66	WSW	5	0	29.80	-13	66	61	+3	SW	6	0	*	72	59	-
	Belfort ...	29.83	59	W	1	b	29.82	-00	58	48	+1	W	1	0	*	64	47	-
	Lyons ...	29.90	68	W	1	b	29.89	-05	62	57	+5	SSW	3	0	*	73	57	-
	Nice ...	29.86	71	SW	3	b	29.95	+22	64	58	+2	NE	3	b	3	79	55	-
	Perpignan ...	29.97	71	E	2	b	29.91	-11	64	60	+4	Z	0	b	*	80	52	-
	Biarritz ...	29.95	71	NE	2	b	29.85	-14	63	61	-2	ESE	2	b	2	77	61	-
	Corunna ...	*	*	*	*	*	30.05	-04	65	62	+3	?	4	c	4	77	?	-
	Lisbon ...	30.03	66	W	5	b	30.05	-04	65	62	+3	?	4	c	4	77	?	-

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

WEDNESDAY, 27th AUGUST,

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:

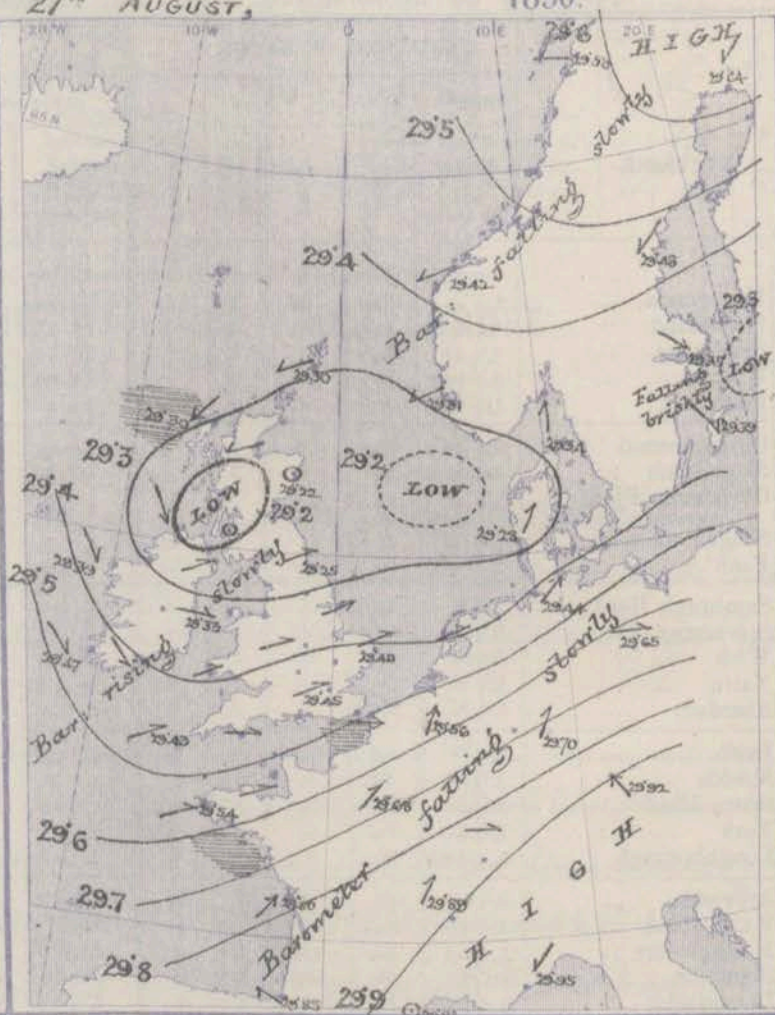
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.793
Stornoway	29.802
Wick	29.818
Nairn	29.827
Aberdeen	29.835
Leith	29.852
Shields	29.875
York	29.907
Loughborough	29.925
Ardrossan	29.860
Donaghadee	29.877
Holyhead	29.904
Liverpool	29.903
Parsonstown	29.919
Valencia	29.922
Roche's Point	29.922
Pembroke	29.921
Sally	29.958
Jersey	29.970
Hurst Castle	29.960
Dover	29.950
LONDON	29.952
Oxford	29.943
Cambridge	29.934
Yarmouth	29.929



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.

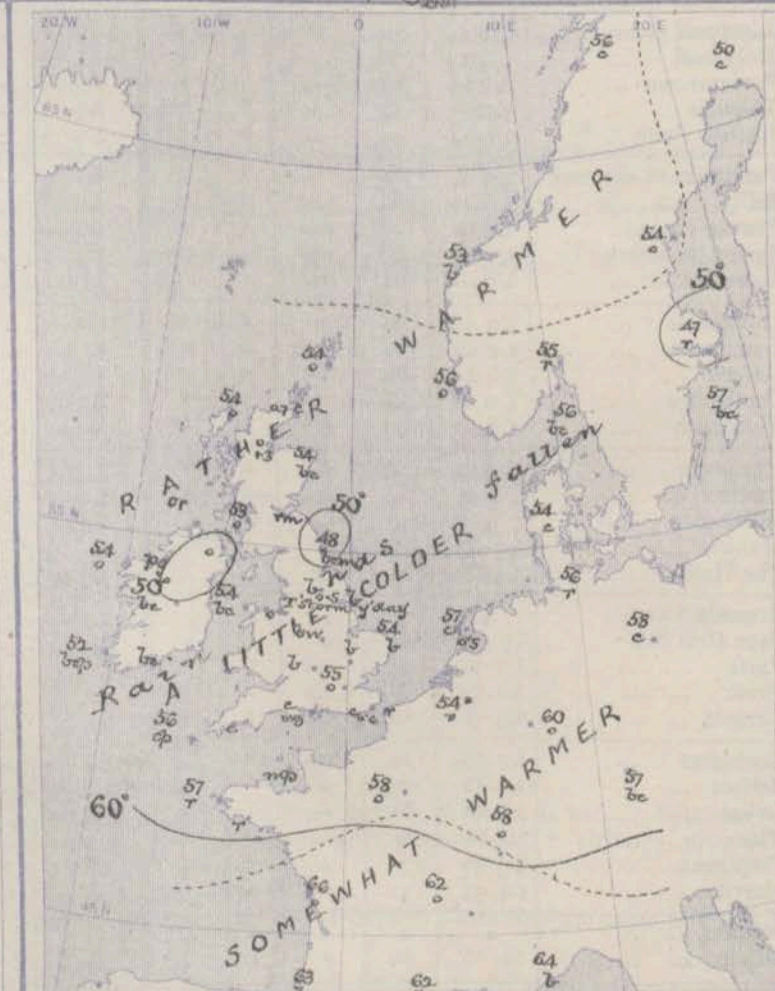
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of August.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	67.9	48.6	53.8	52.0	3.21
Stornoway	68.6	49.0	55.2	53.3	3.67
Wick	61.1	48.5	55.2	53.2	2.35
Nairn	63.4	50.2	55.6	52.7	2.81
Aberdeen	63.1	50.2	56.7	53.6	3.13
Leith	65.8	51.4	57.6	54.6	2.62
Shields	63.5	52.3	57.5	54.9	2.81
York	68.1	51.4	58.0	55.3	2.47
Loughborough	70.6	52.1	59.9	57.4	2.61
Ardrossan	64.0	53.1	57.3	54.9	4.08
Donaghadee	61.8	52.0	57.0	55.5	2.93
Holyhead	64.3	56.0	58.5	56.4	2.89
Liverpool	65.7	54.3	58.7	55.5	2.79
Parsonstown	66.2	51.7	57.6	55.7	3.49
Valencia	65.0	51.1	59.4	57.0	4.65
Roche's Point	66.0	53.9	59.0	56.4	3.59
Pembroke	63.7	55.8	58.9	56.6	2.91
Sally	64.9	57.2	61.1	59.1	2.46
Jersey	69.0	57.4	63.1	60.0	2.20
Hurst Castle	68.1	56.1	61.2	59.1	2.51
Dover	67.1	57.2	62.0	60.0	2.06
LONDON	71.8	53.7	61.4	57.8	2.20
Oxford	69.2	53.4	60.2	56.4	2.33
Cambridge	71.3	52.1	60.2	57.3	2.26
Yarmouth	66.4	55.1	60.8	57.9	2.47

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. and more over Portugal, about 29.9 in. in the south of France, 29.5 in. and more over England, and 29.3 in. at Hamburg, ^{St. Petersburg, and} ~~St. Petersburg~~.
 Lowest, about 29.2 in.: in two minima belonging to the complex depression lying over Scotland and the northern part of the North Sea.
 Gradients rather steep over the northern part of France, moderate or slight elsewhere.
 Barometer rising a little except in the far east and over France.

TEMPERATURE

Highest, 66° at Rochefort, 65° at Lisbon, 64° in the south of France, and 60° at Newcastle.
 Lowest 47° at Stockholm, 48° at Shields and Donaghadee, 50° at Harrogate, 51° at Felix, 53° at Oxford.
 It did not rise above 64° at any of the English stations; at York, Talavera Island and Rocher Point the maxima were as low as 59°.

WIND

Moderate from E. and NE. in Scotland, Norway, and the N. of Ireland, NW in Ireland, W in the Channel.
 SW over France and the Netherlands, S in Denmark. It is strong locally at Melnik, Brussels, and Stockholm, moderate or light elsewhere, calm at Copenhagen.
 The gale felt in some parts of the Channel yesterday has died down.

WEATHER

Fine in some parts of Scandinavia and in the south of France and Ireland, cloudy and very unsettled elsewhere, with rain in many localities. The rainfall during the preceding 24 hours was 1.3 in. at Nairn, 0.7 in. at Wick, 0.3 in. at Hurst Castle and Lillingbourne, and 0.6 in. at Dungeness. In the west of Ireland it was about 0.4 in.

SEA

Moderate on our south and west coasts, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Unsettled weather is still probable, with rain at times and low temperatures.

FORECASTS

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

DISTRICTS.

FORECASTS.

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

NE^{ly} breezes, light; cloudy, some rain, unsettled.

Calms, followed by N^{ly} winds; unsettled, some rain, cold.

Same as N° 5

SW^{ly} to NW^{ly} winds; drizzle, rain at times, very unsettled.

DISTRICTS.

FORECASTS.

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

Same as N° 1.

NW^{ly} to SW^{ly} winds, moderate to light; rain at times, bright intervals, very cold at night, unsettled.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

THER: WIND								THER: WIND							
	BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA
Skudesnaes ...	29.41	63	53	ESE	4	c	4	Holyhead ...	29.32	58	52	SW	5	cg	5
Sumborgh Head ...	29.32	57	54	E	3	b	3	Valencia ...	29.31	55	53	W	5	cg	5
Stornoway ...	29.21	55	52	SE	4	c	4	Scilly ...	29.54	60	59	W	6	cg	5
Aberdeen ...	29.19	53	51	ESE	2	c	3	Jersey ...	29.69	64	54	W	6	c	5
Shields ...	29.24	57	51	SW	3	c	2	Dungeness ...	29.54	57	53	W	6	c	4
Ardrossan ...	29.20	56	53	SW	2	bc	2	London ...	29.48	61	53	W	4	o	4
Malin Head ...	29.19	57	51	W	3	b	2	Yarmouth ...	29.44	62	54	W	5	bc	3
Mullaghmore ...	29.22	54	50	SW	4	cg	3	Rocheport ...	29.94	68	60	W	5	o	3
Belmullet ...	29.23	52	50	W	2	o	*								

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

Weather in morning, fine and bright over the Iberian Peninsula and the western and southern parts of the Mediterranean, as well as over Southern Europe, and on the shore of the Black Sea; cloudy, changeable, and very unsettled elsewhere, with rain in many parts of our Islands and the neighbourhood, as well as over the Baltic Provinces, Eastern Germany, and Austria. Much rain later over the northern and southern parts of our Islands, small quantities elsewhere; 0.5 in. at the Helder, and a good deal over the north of France. Thunderstorms over the northern parts of England.

Temperatures low over Northwestern Europe, and falling very decidedly over Germany, Austria, Switzerland, Italy, and the eastern parts of the Mediterranean. Morning readings still above 80° at Brindisi and above 70° over the Balkan Peninsula, Algeria, and the western parts of the Mediterranean. Much lower elsewhere, as low as 43° at Vienna, 51° at Wiesbaden, 54° at Lyons, and 55° at Voulon; ranging from 50° to 55° over Scotland, Norway and Finland. Rising to 64° at some of our stations later, and to between 70° and 80° in south of France.

Wind moderate from SE. in Norway, and the northern half of Scotland, and from SW. in the northern parts of England and Ireland; strong to a gale from W. in the Channel, and from between NW and NE. over Corsica and the south of France; light from SE. and S. over Russia. Small cyclonic circulations over the Baltic and Austria-Hungary. Shifting to E. and NE. in the north and west of Scotland later, and continuing to blow hard in English Channel.

Barometer highest 29.9 in. to 30.1 in. over Algeria and Southwestern Europe, as well as over Southern Russia and the Caucasus. Lowest 29.2 in. and less, in a depression off the west of Scotland, and about 29.5 in. in small disturbances over the Baltic Provinces and Hungary. Scotch depression becoming more complete later and moving eastwards slowly.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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DAILY WEATHER REPORT.

for *Thursday, 28th August, 1890.*
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		BAROM.	TEMP.	WIND.			BAROMETER.		SHADE TEMP.			WIND.			SHADE TEMP.				
STATIONS.		Reading at 32° F. and Sea Level.	Dry.	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.	Sea. (0 to 3.)	Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.	Haparanda ...	29.16	52	E	4	0	28.92	- 72	55	54	+ 5	SW	4	0	•	57	43	0.63	
	Hernösand ...	29.52	49	NNE	0	7	29.19	- 29	54	50	0	SW	2	0	+	57	45	1.62	
	Stockholm ...	29.43	54	SE	0	7	29.26	- 09	53	52	+ 6	NNE	2	+	+	61	50	0.47	
	Wisby ...	29.41	56	SEW	6	0	?	?	61	59	+ 4	S	4	0	•	64	50	0.55	
	Bodö ...	29.40	56	N	2	0	29.12	- 46	53	50	- 3	N	4	+	2	63	50	-	
	Christiansund ...	29.81	57	NNE	4	0	29.34	- 08	55	52	+ 2	NNE	4	0	3	61	?	-	
	Skudesnaes ...	29.27	56	NNW	2	0	29.30	- 01	57	52	+ 1	NNW	4	0	3	?	48	-	
	Christiania Fjord (Færder) ...	29.25	54	ESE	5	7	29.24	- 14	58	54	+ 8	S	2	0	2	61	54	0.39	
	Skagen (The Scaw) ...	29.24	54	SW	3	0	29.27	- 07	54	51	- 2	SW	3	0	2	57	50	0.59	
	Fanö ...	29.33	55	WSW	4	0	29.41	+ 13	57	53	+ 3	W	6	0	•	59	54	0.12	
BRITISH ISLANDS.	Sumburgh Head ...	29.38	55	NE	4	0	29.53	+ 23	53	52	- 1	N	3	0	4	58	49	0.03	
	Stornoway ...	29.46	54	N	7	0	29.75	+ 45	50	48	- 4	N	4	0	4	57	46	0.08	
	Wick ...	29.44	54	E	3	0	29.66	+ 39	53	50	- 2	NW	3	0	3	60	49	0.03	
	Nairn ...	29.41	54	NE	1	0	29.69	+ 49	51	49	- 2	NNW	2	0	3	60	49	0.21	
	Aberdeen ...	29.36	55	NNE	2	0	29.64	+ 42	53	50	- 1	NW	4	0	3	59	50	0.08	
	Leith ...	29.34	52	NE	1	0	29.68	+ 46	57	52	+ 6	W	1	0	•	58	48	0.07	
	Shields ...	29.33	51	N	0	7	29.62	+ 37	50	48	+ 2	NW	3	0	2	59	46	0.20	
	Spurn Head ...	29.33	58	WSW	3	0	29.63	+ 30	52	50	- 1	W	6	0	4	63	50	0.09	
	York ...	29.33	51	W	2	0	29.66	+ 35	52	50	- 1	W	2	0	•	62	42	0.09	
	Loughborough ...	29.37	55	WSW	2	0	29.71	+ 33	53	50	- 1	W	3	0	•	64	47	0.01	
GERMANY & HOLLAND.	Ardrossan ...	29.35	58	NW	3	0	29.72	+ 53	55	53	+ 2	NNW	1	0	1	60	49	0.04	
	Malin Head ...	29.42	55	NNE	6	0	29.81	+ 62	53	50	0	NNW	0	0	4	57	51	0.02	
	Mullaghmore ...	29.54	56	NNW	7	0	29.87	+ 54	55	49	+ 3	NNW	6	0	4	58	51	0.06	
	Belmullet ...	29.62	56	N	5	0	29.96	+ 57	53	48	- 1	N	4	0	•	59	50	0.05	
	Donaghadee ...	29.38	56	NNE	4	0	29.75	+ 48	55	53	+ 7	NNE	4	0	2	59	48	0.01	
	Liverpool (Bidston) ...	29.35	54	W	3	0	29.71	+ 38	53	53	+ 6	NW	1	0	3	59	51	0.03	
	Holyhead ...	29.36	55	NNW	5	0	29.73	+ 40	55	53	+ 1	N	4	0	4	61	51	0.05	
	Parsonstown ...	29.53	57	NW	2	0	29.88	+ 49	54	51	+ 4	NNW	1	0	•	59	46	0.12	
	Valencia ...	29.68	58	NNW	3	0	29.97	+ 50	56	53	+ 4	N	1	0	2	63	51	0.06	
	Roche's Point ...	29.55	60	NW	5	0	29.88	+ 48	55	51	+ 5	NW	4	0	4	61	49	0.12	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Head) ...	29.46	58	NW	6	0	29.79	+ 42	55	55	0	NNW	4	0	4	58	53	0.02	
	Seilly ...	29.59	54	NNW	4	0	29.60	+ 36	58	55	+ 1	NW	3	0	2	60	50	0.10	
	Prawle Point ...	29.60	60	W	6	0	29.81	+ 29	60	56	+ 2	W	4	0	4	62	55	0.31	
	Jersey (St. Aubin's) ...	29.50	55	W	5	0	29.76	+ 30	58	57	+ 1	W	3	0	2	67	54	0.06	
	Hurst Castle ...	29.41	59	W	6	0	29.69	+ 23	60	56	+ 5	NNW	4	0	3	60	53	0.15	
	Dungeness ...	29.44	57	NNW	2	0	29.72	+ 27	56	52	+ 1	NW	1	0	•	63	49	0.01	
	London ...	29.50	51	SW	3	0	29.73	+ 40	55	52	+ 2	NNW	2	0	•	63	48	0.07	
	Oxford ...	29.39	57	SW	1	0	29.71	+ 29	54	51	0	W	1	0	•	65	47	0.01	
	Cambridge ...	29.38	57	N	0	0	29.64	+ 24	54	51	0	NNW	4	0	3	62	48	0.11	
	Yarmouth ...	29.41	56	S	2	0	29.54	+ 10	55	54	- 1	SW	5	0	•	60	54	0.56	
PENINSULA.	Cuxhaven ...	29.49	68	SW	4	0	29.72	+ 07	58	54	0	SW	5	0	•	68	52	0.12	
	Berlin ...	29.49	•	•	•	•	29.87	+ 17	57	53	- 3	W	4	0	•	64	50	0.43	
	Wiesbaden ...	29.41	58	W	2	0	29.55	+ 16	57	53	0	W	2	0	3	59	52	0.08	
	Munich ...	29.41	•	•	•	•	29.55	+ 16	57	53	0	W	2	0	•	59	52	0.08	
	The Helder ...	29.41	•	•	•	•	29.55	+ 16	57	53	0	W	2	0	•	59	52	0.08	
	Brussels (9 a.m.) ...	29.43	59	NNW	5	0	29.71	+ 22	57	53	+ 1	W	7	0	6	61	52	0.28	
	Cape Gris Nez ...	29.66	60	SW	3	0	29.90	+ 22	53	52	- 5	SW	2	0	•	66	50	0.75	
	Paris ...	29.71	61	NW	3	0	29.83	+ 29	62	58	+ 5	NNW	3	0	3	64	52	0.12	
	Brest ...	29.79	60	W	6	0	29.86	+ 30	58	56	- 1	W	1	0	5	61	54	0.79	
	Lorient ...	29.91	64	NNW	6	0	29.99	+ 19	62	59	- 4	SW	3	0	•	65	55	0.39	
FRANCE AND BELGIUM.	Rochefort ...	29.89	57	NW	4	0	29.95	+ 13	57	50	- 1	NW	2	0	•	65	48	0.28	
	Belfort ...	29.84	68	NNW	2	0	30.01	+ 12	56	54	- 6	W	1	0	•	77	53	0.24	
	Lyons ...	29.84	66	N	4	0	29.95	00	63	60	- 1	NE	2	0	1	77	59	-	
	Nice ...	29.84	77	NE	3	0	29.97	+ 06	65	61	+ 1	W	1	0	•	82	61	-	
	Perpignan ...	29.84	65	NW	5	0	29.96	+ 11	63	59	0	W	4	0	5	78	59	-	
	Biarritz ...	29.99	•	•	•	•	30.08	+ 03	62	60	- 3	NNE	3	0	6	75	61	-	
	Corunna ...	30.07	•	•	•	•	30.08	+ 03	62	60	- 3	NNE	3	0	6	75	61	-	
	Lisbon ...	30.07	•	•	•	•	30.08	+ 03	62	60	- 3	NNE	3	0	6	75	61	-	

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, 28th August.

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.

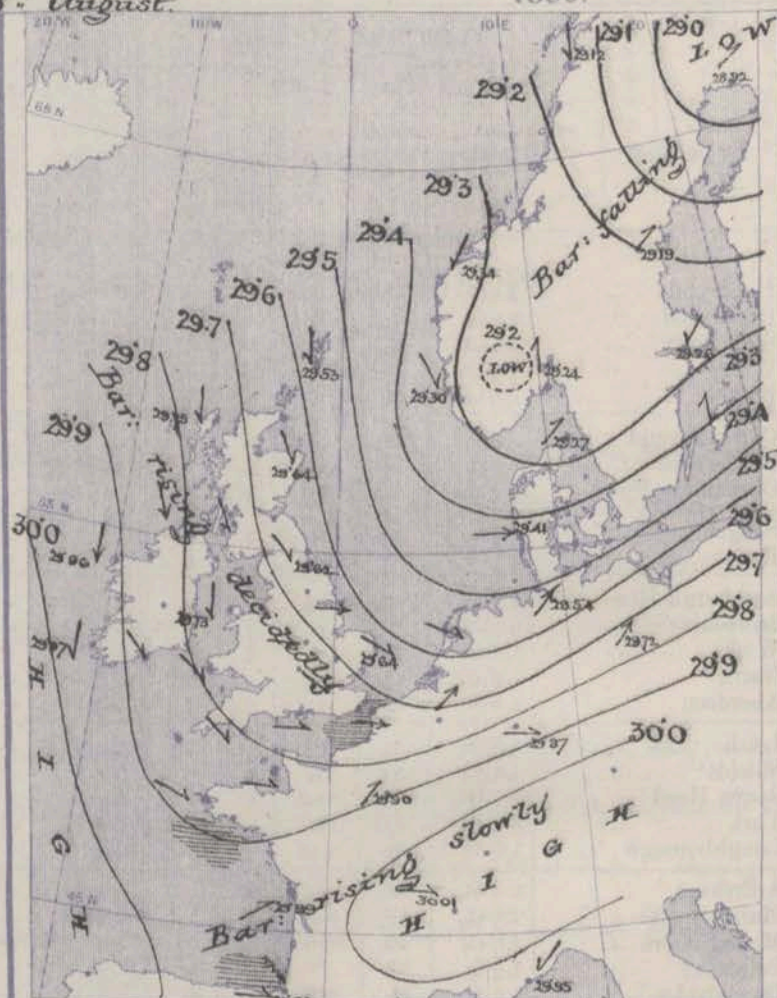
SEA DISTURBANCE—Where considerable, is shown thus:

▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.793
Stornoway	29.802
Wick	29.818
Nairn	29.827
Aberdeen	29.835
Leith	29.852
Shields	29.875
York	29.907
Loughborough	29.925
Ardrossan	29.860
Donaghadee	29.877
Holyhead	29.904
Liverpool	29.903
Parsonstown	29.919
Valencia	29.922
Roche's Point	29.922
Pembroke	29.921
Silly	29.958
Jersey	29.976
Hurst Castle	29.960
Dover	29.950
LONDON	29.952
Oxford	29.943
Cambridge	29.934
Yarmouth	29.929



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.

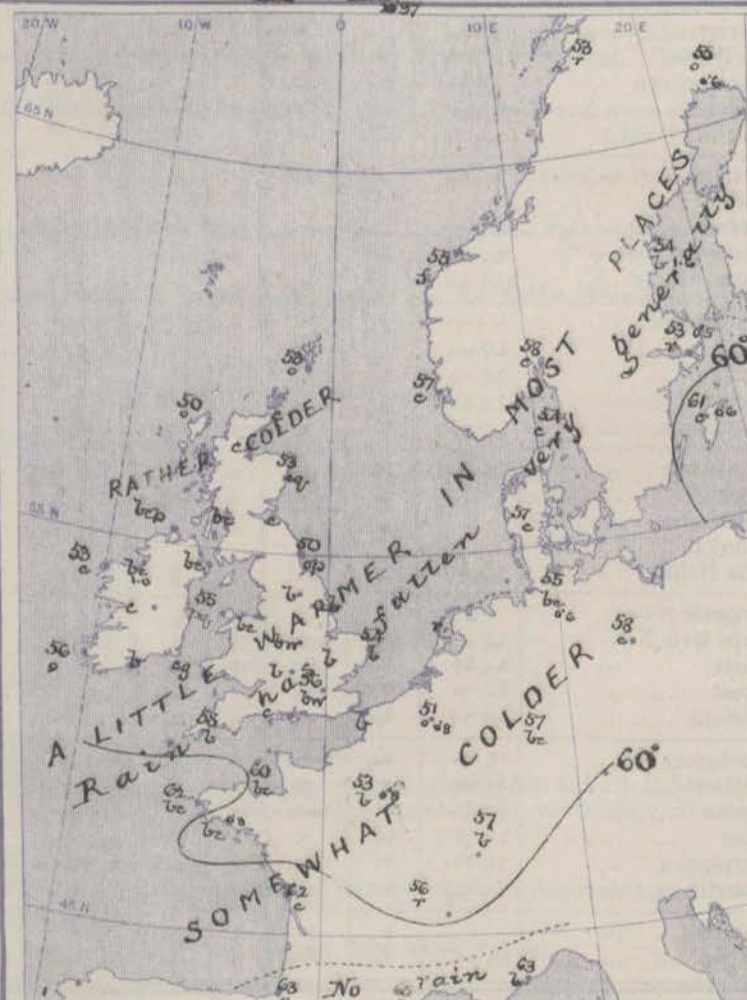
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of August.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	57.9	48.5	53.8	52.0	3.21
Stornoway	58.5	49.0	55.2	53.3	3.57
Wick.....	61.1	48.5	55.2	53.2	2.35
Nairn.....	63.4	50.2	55.6	52.7	2.81
Aberdeen.....	63.1	50.2	56.7	53.6	3.13
Leith.....	65.8	51.4	57.6	54.6	2.62
Shields.....	63.6	52.3	57.6	54.9	2.81
York.....	68.1	51.4	58.0	55.3	2.47
Loughborough	70.5	52.1	59.9	57.4	2.61
Ardrossan	64.0	53.1	57.3	54.9	4.08
Donaghadee.....	61.8	52.0	57.0	55.5	2.99
Holyhead.....	64.3	55.0	58.5	56.4	2.89
Liverpool.....	65.7	54.3	58.7	55.5	2.79
Parsonstown	66.2	51.7	57.6	55.7	3.48
Valencia.....	65.0	51.1	59.4	57.0	4.65
Roche's Point.....	65.6	53.9	59.0	56.4	3.69
Pembroke.....	63.7	55.8	58.9	56.6	2.91
Silly	64.9	57.2	61.1	59.1	2.45
Jersey.....	69.0	57.4	63.1	60.0	2.26
Hurst Castle	68.1	56.1	61.2	59.1	2.31
Dover.....	67.1	57.2	62.6	59.0	2.03
LONDON.....	71.8	53.7	61.4	57.8	2.20
Oxford.....	69.2	53.4	59.2	56.4	2.33
Cambridge.....	71.3	52.1	60.2	57.3	2.25
Yarmouth.....	66.4	55.1	60.8	57.9	2.17

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. and more, off the west of Ireland, over Spain, Switzerland, and the southern half of France.
 Lowest, 29.0 in. and less, at the northern extremity of the Gulf of Bothnia, and 29.2 in. and less, over the south of Norway.
 Gradients moderate for NW ^{and S} winds over Ireland, rather steep for SW winds over the Netherlands and North Germany.
 Barometer falling over Northern Europe, rising elsewhere — met in our Islands.

TEMPERATURE

Highest, 65° at Perpignan, 63° at Nice and Mianitz, 62° at Rochefort and Dabon, and 61° at Nizy.
 Lowest, 50° at Stotsuway and Shields, 52° at York, 53° at Bonn, Stockholm, Lumburg, Aberdeen, Malin Hd. and Loughborough.
 The minima registered over England during the night were as low as 42° to 43°; on the coast the thermometer fell nearly to freezing point at some inland stations.

WIND

Light to fresh from the NW² over the British Islands and North Sea, N² in Norway — rather strong from SW in Germany.
 S², moderate over the Baltic.
 It still blows a moderate gale from W. at C. Fin. Neg.

WEATHER

Very variable. In many places the sky is clear or nearly so, in many others cloudy and rainy, and the appearance is still rather unsettled.
 Thunder and lightning have occurred over our eastern and southeastern counties, and rain has fallen very generally.

SEA

Rough at C. Fin. Neg., moderate or slight on most parts of our own coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression noticed yesterday has almost completely filled up, but a new system has appeared over Lapland, while a "secondary" is found over the south of Norway.

Shower are likely to fall over our Islands today, but clear cold weather is probable at night.

FORECASTS

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

DISTRICTS.

FORECASTS.

- | | | |
|---|------------------|--|
| 0 | SCOTLAND NORTH | N ² winds, moderate or fresh; some showers. |
| 1 | SCOTLAND EAST | |
| 2 | ENGLAND N.E. | NW ² winds, fresh; squally, some showers. Very cold tonight. |
| 3 | ENGLAND EAST | |
| 4 | MIDLAND COUNTIES | NW ² winds, moderate; some showers today, cold and clear tonight. |
| 5 | ENGLAND SOUTH | |

DISTRICTS.

FORECASTS.

- | | | |
|----|---------------|--|
| 6 | SCOTLAND WEST | Same as Nos 1 to 3. |
| 7 | ENGLAND N.W. | |
| 8 | ENGLAND S.W. | |
| 9 | IRELAND NORTH | N ² winds, moderate; some passing showers, very cold tonight. |
| 10 | IRELAND SOUTH | |

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND		WEA.	SEA		BAR.	THER.		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.57	57	54	W	2	c	3	Holyhead ...	29.54	56	51	W	4	c	4
Sumburgh Head ...	29.54	58	55	W	2	c	4	Valencia ...	29.58	63	60	W	3	b	3
Stornoway ...	29.47	56	54	W	7	o	6	Scilly ...	29.53	57	54	W	5	b	4
Aberdeen ...	29.51	57	53	W	2	o	2	Jersey ...	29.51	62	57	W	5	b	4
Shields ...	29.79	52	50	W	2	o	2	Dungeness ...	29.41	56	53	W	3	c	2
Ardrossan ...	29.38	60	55	W	3	o	2	London ...	29.48	64	56	W	2	b	2
Malin Head ...	29.82	56	53	W	6	o	4	Yarmouth ...	29.38	61	53	W	2	b	2
Mullaghmore ...	29.41	55	53	W	6	o	5	Rochefort ...	29.83	66	60	W	7	c	2
Belmullet ...	29.53	59	55	W	6	o	*								

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

Weather fine and bright over Southeastern Europe and at the Mediterranean stations, as well as in some parts of Ireland, England, and Norway; changeable and unsettled over Northwestern and Northern Europe as a whole, with rain in many places. Rain falling very generally over Western Europe later—heavily in the west and north of France and in many parts of Scandinavia, as well as at Mullaghmore; thunder and lightning occurring in the east and southeast of England, and at some French stations.

Temperature fallen fast over the Balkan Peninsula, in Hungary and Poland, little changed elsewhere. Above 80° at LaBalle only; above 70° over Algeria, and Southeastern Europe generally, much lower elsewhere. Below 60° over all the northwestern and northern parts of Europe, and as low as 47° at Stockholm, 48° at Uleaborg, Shields, and Donaghadee. Rising to between 60° and 65° over many parts of the United Kingdom and Norway later, to 70° and more, over the southern parts of France and to 82° at Corkigan.

Wind cyclonic over Northwestern Europe and the Baltic, anticyclonic elsewhere; E¹ to NE³ over Northern Europe and Scotland, NW¹ in Ireland, W¹ over England, SW¹ to W³ over Germany, and the Baltic provinces. Very variable and light over Southeastern, Southern, and Southwestern Europe, becoming more N¹ and freshening in the west of our Islands later, and increasing to a strong breeze from the W¹ in the Channel.

Barometer highest, 29.9 ins. to 30.0 ins. and more, over the whole of Southwestern, Southern, and part of Southeastern Europe, and also over Central Russia; lowest, 29.2 ins. and less, over Scotland and the northern part of the North Sea, and about 29.3 ins. over the Gulf of Iceland and central part of the Baltic. Rising decidedly over the United Kingdom later, and the depression over Scotland and North Sea undergoing considerable modification.

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, 29th August, 1890.*
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

Issued by the Meteorological Office, 56, Abchurch Lane, London, E.C. 4, on the 1st day of 1907.																			
STATIONS.		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 3.)	SHADE TEMP.		Amount of Rainfall.	
				Reading at 32° F. and Sea Level.	Dry.		Dir.	Force. (0 to 12.)	Reading at 29° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.			Dir.	Force. (0 to 12.)		Max.	Min.
SCANDINAVIA.	Haparanda ...	29.08	53	SW	2	b	29.25	+ 33	53	48	+ 2	SW	4	b	*	55	48	0.43	
	Hernösand ...	29.27	54	Z	0	b	29.50	+ 31	51	47	- 3	SW	2	b	*	66	48	-	
	Stockholm ...	29.47	51	SSW	2	c	29.61	+ 35	55	52	+ 2	SW	4	c	*	57	48	0.95	
	Wisby ...	29.59	55	E	8	b	29.69	?	56	52	- 5	SW	6	b	*	?	48	0.16	
	Bodö ...	29.15	51	NW	6	7	29.27	+ 15	48	46	- 2	W	6	c	3	54	46	0.28	
	Christiansund	29.49	50	N	4	7	29.57	+ 23	50	46	- 4	NW	6	c	3	55	48	0.16	
	Skudeenæs ...	29.52	55	NW	7	0	29.73	+ 43	54	53	- 1	NW	7	c	2	57	54	-	
	Christiana Fjord (Færdar)	29.41	57	W	3	bc	29.61	+ 37	55	53	- 2	NNE	2	c	2	?	54	-	
	Skagen (The Seaw)	29.47	52	WNW	1	b	29.62	+ 35	57	53	+ 3	W	4	c	3	61	50	0.28	
	Fanö ...	29.67	56	W	4	b	29.79	+ 38	57	54	0	WNW	4	bc	*	61	52	0.20	
BRITISH ISLANDS.	Sumburgh Head	29.66	52	N	3	b	29.82	+ 31	51	46	- 5	N	1	bc	3	58	42	0.01	
	Stornoway ...	29.81	53	NW	3	b	29.92	+ 17	50	48	0	NNE	4	c	4	54	42	0.02	
	Wick ...	29.75	52	WNW	3	0	29.93	+ 27	49	46	- 3	N	2	bc	1	56	43	0.08	
	Nairn ...	29.80	50	NW	1	bc	29.89	+ 20	48	47	- 1	SW	1	c	1	58	45	0.01	
	Aberdeen ...	29.78	52	WNW	4	bcy	29.88	+ 24	49	47	- 2	WNW	2	cy	3	59	42	0.01	
	Leith ...	29.80	57	W	1	c	29.90	+ 22	47	44	- 3	W	1	bcy	*	63	43	0.08	
	Shields ...	29.81	55	WNW	1	c	29.88	+ 26	44	42	- 2	WNW	2	c	3	63	41	0.01	
	Spurn Head ...	29.80	57	NNE	3	bc	29.90	+ 27	52	49	0	WNW	3	b	3	59	49	0.02	
	York ...	29.81	55	NNE	1	c	29.93	+ 27	50	46	- 4	WNW	1	b	*	61	42	-	
	Loughborough	29.84	56	Z	0	0	29.96	+ 25	51	50	- 1	W	2	bcy	*	67	42	0.43	
BRITISH ISLANDS.	Ardrossan ...	29.85	55	NW	5	bc	29.90	+ 18	55	51	0	WNW	2	bc	1	60	45	-	
	Malin Head ...	29.40	54	NW	6	cy	29.93	+ 12	52	49	- 3	WNW	3	cy	2	55	50	0.02	
	Mullaghmore ...	30.00	54	WNW	5	c	29.95	+ 11	54	50	- 4	W	4	bcy	3	57	50	0.10	
	Belmullet ...	30.05	55	WNW	3	b	30.01	+ 05	52	49	- 3	WNW	1	c	*	57	49	0.22	
	Donaghadee ...	29.91	55	NNE	4	c	29.96	+ 21	52	49	- 3	NW	3	b	1	60	52	-	
	Liverpool (Bidston)	29.87	56	NW	4	c	29.95	+ 24	51	48	- 3	W	3	c	4	62	49	0.01	
	Holyhead ...	29.92	55	N	5	b	29.97	+ 24	54	51	- 3	WNW	3	cy	2	59	49	0.03	
	Parsonstown ...	30.02	57	NW	2	bc	30.03	+ 15	49	47	- 2	Z	0	c	*	60	40	-	
	Valencia ...	30.10	58	N	3	c	30.05	+ 08	53	52	- 1	SW	2	fm	2	60	49	0.05	
	Roche's Point...	30.01	58	WNW	4	b	30.07	+ 19	51	49	- 2	WNW	1	c	1	61	47	0.05	
BRITISH ISLANDS.	Pembroke (St. Ann's Hd.)	29.93	56	N	3	bc	30.03	+ 24	54	51	- 3	WNW	2	bc	2	59	51	-	
	Scilly ...	29.97	58	WNW	4	bc	30.05	+ 23	56	53	0	WNW	4	bcy	3	59	51	0.20	
	Prawle Point ...	29.90	56	WNW	3	bc	30.03	+ 13	58	56	0	WNW	2	c	1	63	48	-	
	Jersey (St. Aubin's)	29.91	61	WNW	3	bc	30.09	+ 19	57	54	- 3	NW	4	cy	3	64	54	0.09	
	Hurst Castle ...	29.87	57	W	3	cy	29.99	+ 23	54	52	- 2	N	3	b	1	66	50	0.13	
	Dungeness ...	29.81	61	W	4	cy	29.90	+ 21	54	50	- 4	N	3	cy	1	67	50	0.02	
	London ...	29.82	63	W	1	bc	29.95	+ 23	55	51	- 4	WNW	2	cy	*	67	52	-	
	Oxford ...	29.90	52	Z	0	0	29.98	+ 25	51	48	- 3	NW	1	b	*	68	47	0.12	
	Cambridge ...	29.86	56	WNW	1	7	29.95	+ 24	52	50	- 2	N	1	c	*	66	48	0.19	
	Yarmouth ...	29.81	57	WNW	2	bc	29.91	+ 27	53	51	- 2	NW	2	cy	2	61	45	-	
GERMANY & HOLLAND.	Cuxhaven ...	29.69	56	W	4	7	?	?	56	55	+ 1	W	2	bc	*	60	55	0.04	
	Berlin ...	29.87	59	SW	3	c	29.95	+ 23	57	54	- 3	W	2	bc	*	66	50	-	
	Wiesbaden ...	*	*	*	*	*	29.95	+ 08	55	54	- 1	Z	0	c	*	64	50	-	
	Munich ...	30.03	56	SW	1	7	29.99	?	54	53	- 1	E	1	c	*	64	52	0.32	
	The Helder ...	29.80	58	WNW	2	bc	29.89	+ 34	58	52	+ 6	NW	1	b	1	?	57	0.08	
FRANCE AND BELGIUM.	Brussels (P.M.)	*	*	*	*	*	29.92	+ 15	52	52	+ 1	SW	1	bc	*	60	46	0.04	
	Cape Gris Nez	29.86	59	W	4	c	29.90	+ 19	54	53	- 1	E	2	c	2	62	52	0.12	
	Paris ...	29.90	58	SW	2	bc	29.96	+ 06	50	50	- 3	Z	0	b	*	69	46	0.04	
	Brest ...	29.95	61	NW	3	b	30.03	+ 20	57	53	- 4	NW	3	c	2	70	50	-	
	Lorient ...	29.93	60	WNW	1	c	30.06	+ 20	53	52	- 1	WNW	3	b	3	64	52	0.04	
FRANCE AND BELGIUM.	Rochefort ...	30.01	64	WNW	3	bc	30.09	+ 10	57	55	- 2	N	3	b	2	72	50	-	
	Belfort ...	29.94	59	W	1	0	29.93	- 02	56	48	- 8	W	1	7	*	68	52	0.12	
	Lyons ...	29.94	63	ENE	1	0	29.96	- 05	55	54	- 1	SW	1	7	*	70	55	0.24	
	Nice ...	29.91	65	S	3	bc	29.86	- 05	65	60	+ 5	SSE	1	b	1	78	59	-	
	Perpignan ...	29.90	66	Z	0	7	29.97	00	54	53	- 1	W	2	7	*	78	52	0.87	
PENINSULA.	Biarritz ...	29.99	67	N	3	0	30.05	+ 09	59	55	- 4	WNW	3	c	3	70	57	0.55	
	Corunna ...	*	*	*	*	*	30.21	+ 13	61	55	- 6	ENE	3	b	?	72	59	-	
PENINSULA.	Lisbon ...	30.11	64	WNW	5	b	30.21	+ 13	61	55	- 6	ENE	3	b	?	72	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

Friday, 29th August.

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 shewn thus:

■ = Rough. ■ = High.

MEAN HEIGHT OF THE BAROMETER

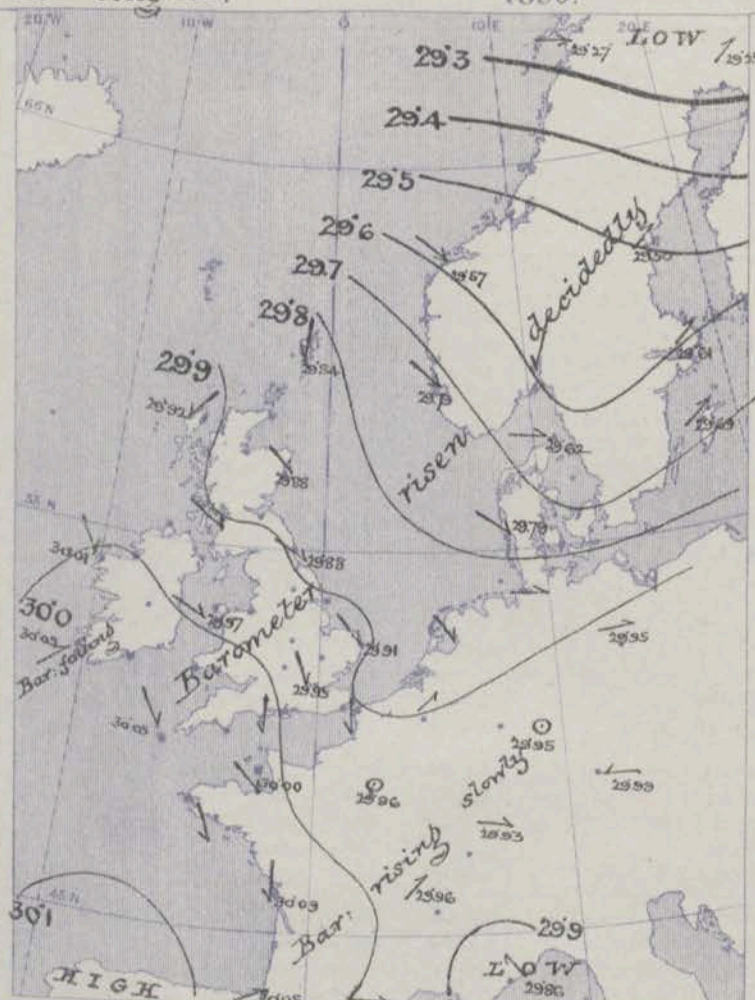
at 8.0 a.m. for the month of August.

During the 15 Years: 1871-1885.

STATIONS.

MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.793
Stornoway	29.802
Wick	29.818
Nairn	29.827
Aberdeen	29.835
Leith	29.852
Shields	29.875
York	29.907
Loughborough	29.925
Ardrossan	29.860
Donaghadee	29.877
Holyhead	29.904
Liverpool	29.903
Parsonstown	29.919
Valencia	29.922
Roche's Point	29.922
Pembroke	29.931
Sally	29.958
Jersey	29.976
Hurst Castle	29.960
Dover	29.950
LONDON	29.952
Oxford	29.943
Cambridge	29.934
Yarmouth	29.929



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.

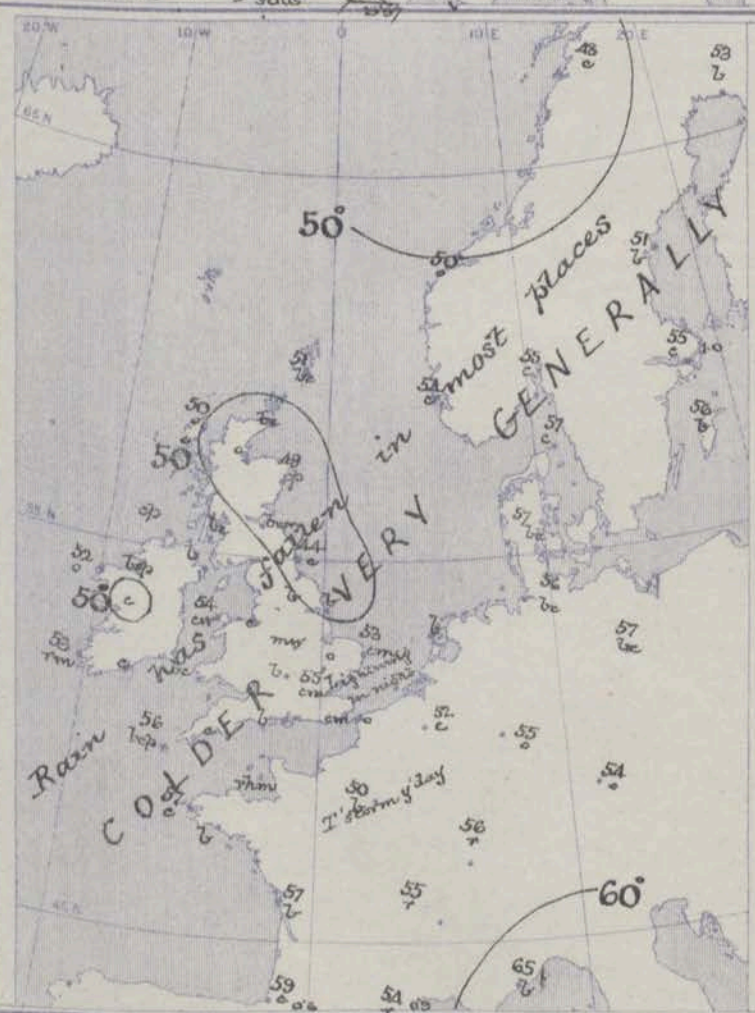
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of August.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	57.0	48.5	53.8	52.0	3.21
Stornoway	58.5	49.0	55.2	53.3	3.57
Wick	61.1	48.5	55.2	53.2	2.35
Nairn	63.4	50.2	55.6	52.7	2.91
Aberdeen	63.1	50.2	56.7	53.6	3.13
Leith	65.8	51.4	57.6	54.6	2.62
Shields	63.5	52.3	57.5	54.9	2.81
York	68.1	51.4	58.0	55.3	2.47
Loughborough	70.5	52.1	59.9	57.4	2.61
Ardrossan	64.0	53.1	57.3	54.8	4.08
Donaghadee.....	61.8	52.0	57.0	55.5	2.99
Holyhead.....	64.3	55.0	58.5	56.4	2.89
Liverpool	65.7	54.3	58.7	55.5	2.79
Parsonstown	66.2	51.7	57.6	55.7	3.48
Valencia	65.0	54.1	59.4	57.0	4.65
Roche's Point	66.6	53.9	59.0	56.4	3.59
Pembroke.....	63.7	55.8	58.9	56.0	2.91
Sally	64.9	57.2	61.1	59.1	2.45
Jersey	69.0	57.4	63.1	60.0	2.26
Hurst Castle	68.1	56.1	61.2	59.1	2.34
Dover	67.1	57.2	62.6	59.0	2.95
LONDON	71.8	53.7	61.4	57.8	2.20
Oxford	69.2	53.4	59.2	56.4	2.33
Cambridge	71.3	52.1	60.2	57.3	2.25
Yarmouth	65.4	53.1	60.8	57.9	2.17

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.1 ins: to 30.0 ins: over Spain, the Bay of Biscay, and the southwestern parts of the United Kingdom.
 Lowest, 29.3 ins and less, over Lapland, and 29.7 ins and less, over the north of Denmark.
 Gradients are slight except in the far north. Barometer is almost steady in the north and east, falling in Ireland.

TEMPERATURE

Highest, 65° at Nice, 61° at Lisbon, 53° at Biarritz, 57° at Brest, Berlin, and the Sea.
 Lowest, 44° at Shields, 47° at Leith, 48° at Kain, 48° at Wick, Aberdeen, and Caronstown, 50° at York and Paris.
 It has been as low (in the shade) as 41° at Shields, 42° at Sumburgh Head, Stromsø, Aberdeen, York, and Loughborough during the night, and 45° at Yarmouth.

WIND

Moderate to light from the NW^W over the greater part of the North Sea, the British Islands, and northwest of France.
 In the north of Scotland, however, it is N^W to E^N, while at Valencia it has backed to the SW^W.

WEATHER

Fine at most of the English, Danish, and Swedish stations — bright at many of them — cloudy or overcast elsewhere with rain at Aberdeen, as well as on our southwestern coast and in many parts of France.
 Rain has fallen at nearly all stations during the past 24 hours, and in some localities the fall has been heavy.

SEA

Very little disturbed on any of our coasts, smooth in the Straits of Dover.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The weather seems likely to improve, very temporarily, over England today, but the new disturbance advancing from the westward will probably cause less settled conditions tomorrow.

FORECASTS

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

DISTRICTS.

FORECASTS.

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

Variable and E^N winds; changeable, unsettled, perhaps steady rain later.
 -----D°-----D°-----D°-----
 Wind backing S^W^W; fair and close at first, rainy tomorrow.
 Same as N°5
 Same as N°2.
 Wind backing SW^W; fine and close today, dull and probably rainy tomorrow.

DISTRICTS.

FORECASTS.

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

Wind becoming S^W (SW to SE);
 weather close unsettled and rainy.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

THER: WIND								THER: WIND							
	BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA
Skudesnaes ...	29.39	61	56	NW	6	c	3	Holyhead ...	29.86	57	54	N	5	b	4
Sumburgh Head ...	29.60	56	50	N	3	bc	4	Valencia ...	30.07	60	56	NW	3	b	3
Stornoway ...	29.81	53	48	NW	4	bc	4	Scilly ...	29.94	59	56	NW	4	c	4
Aberdeen ...	29.73	56	51	NW	4	c q	3	Jersey ...	29.89	62	58	NW	4	bc	3
Shields ...	29.77	59	53	NNE	3	e	3	Dungeness ...	29.78	61	57	W	5	cp	5
Ardrossan ...	29.81	58	53	NW	5	c	3	London ...	29.81	62	58	NW	2	bc	*
Malin Head ...	29.91	54	49	NW	5	c	3	Yarmouth ...	29.77	59	54	NW	3	c	2
Mullaghmore ...	29.99	55	50	NW	5	c	3	Rocheport ...	30.00	69	60	NW	3	bc	2
Belmullet ...	30.05	56	51	NW	2	bc	*								

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

Continental Information not received.

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, 30th August,* 1890.
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

Issued 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.)	Dir.		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...	29.46	51	Z	0	b	29.67	+ 42	50	43	- 3	SW	2	bc	*	61	46	-	
	Hernösand ...	29.72	49	Z	0	b	29.87	+ 37	51	48	0	Z	0	bc	*	66	46	-	
	Stockholm ...	29.82	51	Z	0	b	29.88	+ 27	55	51	0	SSW	2	bc	*	64	48	-	
	Wisby ...	29.81	52	SSW	4	b	29.89	+ 20	57	52	+ 1	SSE	2	b	*	63	52	0.39	
	Bodö ...	29.50	47	W	6	r	29.63	+ 36	47	45	- 1	WSW	6	r	5	48	45	0.20	
	Christiansund	29.78	49	WNW	4	r	29.85	+ 28	50	47	0	SW	2	bc	4	54	48	0.32	
	Skudesnes ...	29.87	51	NW	2	c	29.89	+ 16	53	48	- 1	WNW	1	b	2	5	46	0.04	
	Christiania Fjord (Fjorder)	29.70	61	SW	3	b	29.81	+ 20	53	51	- 2	WNW	2	0	3	61	52	-	
	Skagen (The Scaw)	29.79	54	W	3	b	29.84	+ 22	53	49	- 4	WNW	1	b	2	61	46	-	
	Faenø ...	29.89	51	Z	0	b	29.85	+ 06	53	51	- 4	ESE	1	b	*	61	48	-	
BRITISH ISLANDS.	Sumburgh Head	29.91	48	N	3	bc	30.02	+ 18	48	43	- 3	N	2	b	3	52	42	0.02	
	Stornoway ...	30.04	54	N	4	c	30.13	+ 21	48	45	- 2	N	3	c	3	54	39	0.01	
	Wick ...	30.00	51	NW	2	bc	30.10	+ 17	49	46	0	NW	2	bc	1	55	38	0.05	
	Nairn ...	30.00	52	E	1	c	30.11	+ 22	49	45	+ 1	NW	2	c	2	57	41	0.01	
	Aberdeen ...	30.00	50	WNW	2	c	30.08	+ 20	48	45	- 1	NW	3	bcq/p	3	56	39	0.18	
	Leith ...	30.00	48	E	1	c	30.12	+ 22	49	45	+ 2	WNW	1	bc	*	59	44	0.07	
	Shields ...	29.94	56	NNE	2	c	30.06	+ 18	48	45	+ 4	NW	3	c	3	63	43	0.07	
	Spurn Head ...	29.94	50	N	4	r	30.02	+ 12	54	50	+ 2	N	6	bc	4	58	47	0.17	
	York ...	29.94	56	W	2	bc	30.07	+ 14	48	46	- 2	NW	2	b	*	64	42	-	
	Loughborough	29.95	56	W	3	bc	30.07	+ 11	49	47	- 2	WNW	2	bcnw	*	62	39	-	
GERMANY & HOLLAND.	Ardrossan ...	29.97	54	WNW	2	c	30.11	+ 21	49	48	- 6	NNE	2	cmw	1	61	45	0.01	
	Malin Head ...	30.02	54	N	4	b	30.15	+ 22	51	45	- 1	N	4	0	2	46	50	-	
	Mullaghmore ...	30.01	57	WNW	5	bcv	30.17	+ 19	51	49	- 3	Z	0	bc	0	59	47	0.05	
	Belmullet ...	30.05	55	NNE	3	b	30.18	+ 17	45	52	+ 3	SW	1	b	*	58	44	-	
	Donaghadee ...	29.97	56	N	4	b	30.13	+ 17	53	51	+ 1	WNW	3	bc	1	59	50	-	
	Liverpool (Bidston)	29.96	55	WNW	2	bc	30.11	+ 16	51	47	0	NNE	1	bc	3	58	46	0.16	
	Holyhead ...	29.98	54	W	1	b	30.10	+ 13	55	54	+ 1	Z	0	bcw	2	62	49	-	
	Parsonstown ...	29.99	60	Z	0	bc	30.18	+ 15	45	44	- 4	Z	0	bcw	*	61	37	0.03	
	Valencia ...	29.99	58	NNE	1	bcv	30.19	+ 14	52	51	- 1	N	1	bcw	1	61	43	0.04	
	Roche's Point...	29.99	59	SSW	1	b	30.15	+ 08	53	50	+ 2	N	3	b	3	61	48	-	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.00	56	W	2	b	30.10	+ 07	55	52	+ 1	N	2	b	1	57	48	-	
	Scilly ...	29.99	57	SSW	4	0	30.08	+ 03	58	55	+ 2	NNE	4	bc	3	59	51	-	
	Prawle Point ...	30.00	54	W	4	bc	30.07	+ 04	57	52	- 1	N	3	b	1	62	45	-	
	Jersey (St. Aubin's)	30.02	60	WNW	3	b	30.02	+ 02	59	54	+ 2	NE	3	bcw	3	62	45	0.01	
	Hurst Castle ...	29.98	59	WNW	2	cp	30.06	+ 07	50	48	- 4	N	2	mar	1	65	45	0.01	
	Dungeness ...	29.92	58	Z	0	c	30.00	+ 10	55	50	+ 1	N	1	b	0	61	42	0.06	
	London ...	29.94	59	NW	1	c	30.05	+ 10	47	45	- 8	Z	0	mw	*	64	40	-	
	Oxford ...	30.00	46	NW	1	b	30.07	+ 09	48	47	- 3	NW	1	bcw	*	64	40	0.04	
	Cambridge ...	29.94	55	NW	1	bc	30.03	+ 08	51	48	- 1	N	1	c	*	65	39	-	
	Yarmouth ...	29.91	57	N	3	cp	29.95	+ 04	53	51	0	WNW	4	C	3	59	44	0.04	
GERMANY & HOLLAND.	Cuxhaven ...	29.90	55	N	2	b	29.94	?	53	52	- 3	SW	1	r	*	61	53	0.40	
	Berlin ...	29.93	60	Z	0	0	29.84	- 11	54	53	- 3	Z	0	r	*	64	52	0.04	
	Wiesbaden ...	*	*	*	*	*	29.90	- 05	53	50	- 2	NW	2	b	*	63	50	0.08	
	Munich ...	29.97	50	SW	4	r	29.94	- 05	47	46	- 7	SW	5	r	*	55	46	1.26	
	The Helder ...	29.90	55	N	2	b	29.88	- 01	53	50	- 3	NW	1	b	2	61	49	0.44	
	Brussels (9 a.m.)	*	*	*	*	*	29.97	+ 05	53	51	+ 1	W	1	b	*	65	46	-	
	Cape Gris Nez	29.94	55	E	2	0	30.01	+ 11	54	50	0	NE	4	bc	3	64	48	0.28	
	Paris ...	29.96	56	WNW	2	c	?	?	48	47	- 2	Z	0	b	*	68	44	-	
	Brest ...	30.05	57	NW	1	0	29.93	- 10	51	50	- 6	NE	3	C	3	68	46	0.16	
	Lorient ...	30.06	58	W	4	c	29.93	- 13	53	50	0	ESE	5	0	4	61	50	0.12	
FRANCE AND BELGIUM.	Rochefort ...	30.14	62	NW	5	bc	29.95	- 14	58	58	+ 1	SE	5	r	2	66	52	0.24	
	Belfort ...	29.96	54	NW	1	0	29.97	+ 04	55	48	- 1	NW	1	0	*	59	48	-	
	Lyons ...	29.98	53	NW	1	r	30.07	+ 11	52	49	- 3	ESE	1	bc	*	60	48	0.16	
	Nice ...	29.76	60	Z	0	0	29.75	- 11	63	51	- 2	NE	5	b	2	77	57	-	
	Perpignan ...	30.02	63	W	4	b	30.11	+ 14	61	55	+ 7	W	2	b	*	67	57	0.12	
	Biarritz ...	30.15	64	NW	5	bc	30.04	- 01	61	59	+ 2	WSW	3	0	2	68	59	0.43	
	Corunna ...	*	*	*	*	*	30.21	- 00	61	55	0	NNE	5	b	5	72	57	-	
	Lisbon ...	30.21	62	WNW	6	b	30.21	- 00	61	55	0	NNE	5	b	5	72	57	-	
	Corunna ...	*	*	*	*	*	30.21	- 00	61	55	0	NNE	5	b	5	72	57	-	
	Lisbon ...	30.21	62	WNW	6	b	30.21	- 00	61	55	0	NNE	5	b	5	72	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

Saturday 30th August

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:

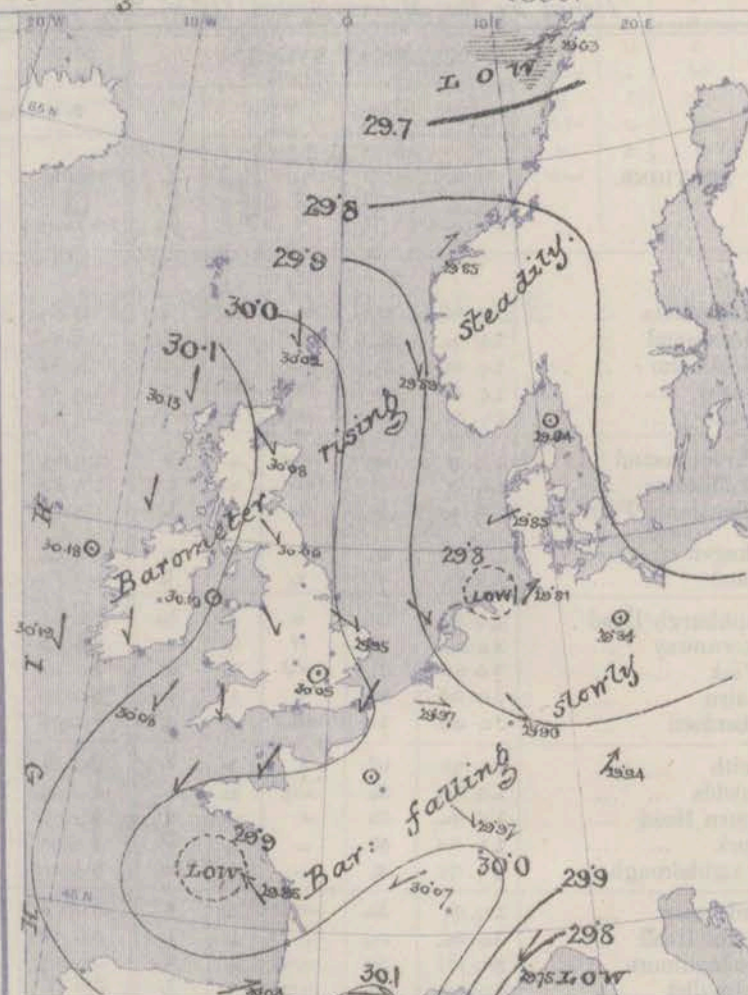
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.793
Stornoway	29.802
Wick	29.813
Nairn	29.827
Aberdeen	29.855
Leith	29.852
Shields	29.875
York	29.907
Loughborough	29.925
Ardrossan	29.860
Donaghadee	29.877
Holyhead	29.904
Liverpool	29.903
Parsonstown	29.919
Valencia	29.922
Roche's Point	29.922
Pembroke	29.921
Silly	29.958
Jersey	29.976
Hurst Castle	29.960
Dover	29.950
LONDON	29.952
Oxford	29.943
Cambridge	29.934
Yarmouth	29.929



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.

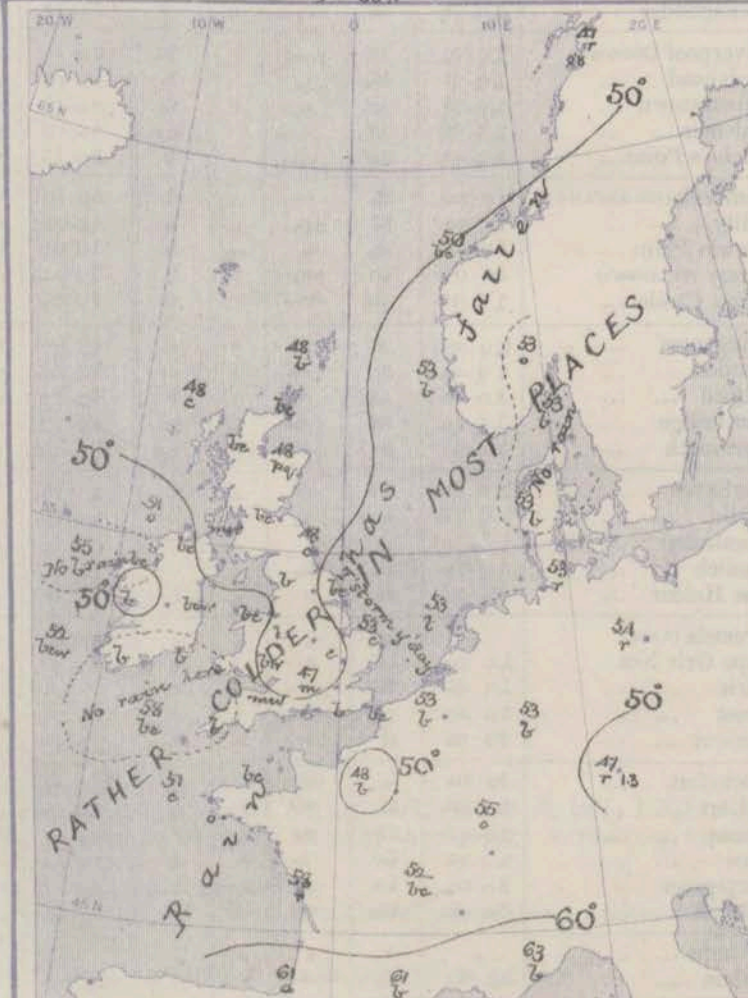
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of August.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Dry. at 8 a.m.	Wet.	
Sumburgh Head	57.9	48.5	53.8	52.0	3.21
Stornoway	58.5	49.0	55.2	53.3	3.57
Wick	61.1	48.5	55.2	53.2	2.35
Nairn	63.4	50.2	55.6	52.7	2.81
Aberdeen	63.1	50.2	56.7	53.6	3.13
Leith	65.8	51.4	57.6	54.6	2.62
Shields	63.5	52.3	57.5	54.9	2.81
York	68.1	51.4	58.0	55.3	2.47
Loughborough	70.5	52.1	59.9	57.4	2.61
Ardrossan	64.0	53.1	57.3	54.9	4.08
Donaghadee	61.8	52.0	57.0	55.5	2.99
Holyhead	64.3	55.0	58.5	56.4	2.89
Liverpool	65.7	54.3	58.7	55.5	2.79
Parsonstown	66.2	51.7	57.6	55.7	3.45
Valencia	65.0	54.1	59.4	57.0	4.65
Roche's Point	66.6	53.9	59.0	56.4	3.59
Pembroke	63.7	55.8	58.9	56.6	2.91
Silly	64.0	57.2	61.1	59.1	2.45
Jersey	69.0	57.4	63.1	60.0	2.28
Hurst Castle	68.1	56.1	61.2	59.1	2.31
Dover	67.1	57.2	62.6	59.0	2.03
LONDON	71.8	53.7	61.4	57.8	2.20
Oxford	69.2	53.4	59.2	56.4	2.33
Cambridge	71.3	52.1	60.2	57.3	2.25
Yarmouth	66.4	55.1	60.8	57.9	2.17

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: over the British Isles and the Iberian Peninsula.
lowest, 29.8 in: and less, over the Baltic and Gulf of Genoa, and about 29.9 in: in a small depression over the Bay of Biscay.
Gradients slight throughout our Islands.
Barometer rising slowly, — most in the west.

TEMPERATURE

Highest, 63° at Nice, 61° at Lisbon, Perpignan and Biarritz.
lowest, 45° at Banonstown, 47° in London, 48° at Oxford, York, Aberdeen and Lumburg Head.
A decided frost occurred in the grass over the inland parts of Ireland and England this morning.

WIND

Light from the NWnd and Nnd over the United Kingdom, NE^{ly} in the south of France, SE^{ly} at Rochefort, W^{ly} at Biarritz.
In the northwest of Norway it is SW^{ly}, and over Germany very light and variable.

WEATHER

Fine over the United Kingdom generally, but hazy at some of the English stations. In the west of France and over Germany it is raining; thunder is reported at Tilsen. Conditions are not at all settled.

SEA

Very little disturbed.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The new disturbance over Germany and Holland seems likely to cause cold rain over the east of England, but fair cold weather is probable in the west and north.

FORECASTS

For the 24 hours ending at NOON on 31st August 1890.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	} NW ^{ly} or N ^{ly} breezes, light; some passing showers
1	SCOTLAND EAST	
2	ENGLAND N.E.	} Same as No 5
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	N ^{ly} breezes, light; cold, showers at times

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	} N ^{ly} breezes, moderate or light; fair generally, cold at night
7	ENGLAND N.W.	
8	ENGLAND S.W.	
9	IRELAND NORTH	
10	IRELAND SOUTH	

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND				SEA		BAR:	THER:		WIND				SEA	
		D.	W.	D.	F.	WEA.					D.	W.	D.	F.	WEA.			
Skudesnaes	29.81	58	50	NW	6	c		3		Holyhead ...	29.98	58	53	NW	3	b	2	
Stamburgh Head	29.90	51	47	NW	3	c		3		Valencia ...	29.98	57	54	SE	4	o v	4	
Sornoway ...	30.01	52	49	NE	4	o		4		Scilly ...	30.05	50	55	W	2	b c	3	
Aberdeen	29.96	52	47	N	2	c		3		Jersey ...	30.04	61	55	NW	4	b c	3	
Shetlands	29.92	56	51	NE	2	c		3		Dungeness ...	29.92	61	54	N	4	b c	1	
Arcticum	29.92	57	54	NW	1	b		1		London ...	29.94	61	52	NW	2	b c	*	
Malin Head	29.99	56	51	NW	3	b c		2		Yarmouth ...	29.93	59	53	N	2	b c	2	
Mullaghmore	30.00	59	52	NW	1	b v		1		Rochefort ...	30.12	66	59	NW	5	b	*	
Belmullet	30.03	58	52	NE	2	b		*										

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

Weather fine and bright over Russia, Southeastern Europe, the Mediterranean, and the Iberian Peninsula, as well as over Sweden and some part of the British Islands; cloudy and changeable elsewhere, with rain in many localities. Rainfall heavy later at Munich, Bonn, and considerable at Wiesbaden, and Birming; thunderstorms in Holland and the east of England.

Temperature in morning still above 80° at some Algerian stations, and exceeding 70° over the southern parts of the Mediterranean. Much lower elsewhere. Below 60° over the whole of Northern, Northwestern, and the greater part of Central Europe, and as low as 44° at Shields, 47° at Leith and La Mure, 48° at Namur and Bonn. Rising during the day to between 60° and 65° over England and Germany, to a rather higher value over France as a whole, and to 77° at Nice. Falling rapidly over the British Islands towards night.

Wind strong from W. and SW. in the extreme north and over the Baltic, light from S. and SE. over Russia; moderate to light from the NW^d and N^os over the British Islands, Bay of Biscay and Spain, very variable and light elsewhere. S^o and variable breezes at our extreme southwestern stations later.

Barometer highest, 30.0 ins. to 30.2 ins. and more over the extreme west and southwest of Europe, as well as over Southeastern Europe and Central Russia. Lowest, 29.2 ins. to 29.5 ins. over Lapland and the north of Scandinavia, and shallow local disturbances prevailing over the North Sea and Holland. New small depression off our southwest coast later, moving southeastwards, barometer rising slowly in the northeast and north.

General Remarks on the Weather over Europe for 24 hours ended 8 a.m. Augst 29th 1890.

Weather fine and bright over Southeastern Europe and the southern and eastern parts of the Mediterranean; still changeable in the west, northwest, and north, with clear skies in some places, but rain at several stations. Rain in almost all the latter regions and at Barcelona subsequently, heavy in several localities; lightning in the southeast of England, but appearance improving slowly as a whole.

Temperature fallen fast over Southeastern and Eastern Europe; morning readings exceeding 80° at La Calle only; exceeding 70° at the southern of the Mediterranean stations. Above 60° over some parts of Germany, Austria, and the southern half of France, but much lower elsewhere. As low as 50° at Alesund and Shields, and 53° at Bonn, Stockholm, Sumburg Head, Aberdeen, Malin Head, and Loughborough. Rising later to between 60° and 67° over England, Germany, and the north of France, to 70° or more in the south of France, to 80° and more over Italy, and to nearly 100° in Algeria. Falling fast in the north and northeast of our Islands towards night.

Wind moderate from N. in Norway, and from N. and NW. over the greater part of the United Kingdom; W^o in the Channel and north of France (blowing strongly at O^o R^o and over the Netherlands), SW^o over North Germany, S^o over the Baltic. Very light and variable over Southern Europe. Becoming more N^o over the British Islands later and falling light.

Barometer rising over Western Europe as a whole, falling in the far north. Highest in morning 29.9 ins. to 30.0 ins. over the western parts of Ireland and the Iberian Peninsula, 29.9 ins. to 30.1 ins. over Central Russia and Southeastern Europe. Lowest 29.0 ins. and less, over Lapland and about 29.2 ins. over the south of Norway. Continuing to rise over Western Europe later, but also slackening in extreme 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 Sunday 31st AUGUST 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 3 rd P. and Sea Level.	TEMP. Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 12.)	SHADE TEMP.			
			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.	Dirce.	Force. (0 to 12.)			Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.																		
Haparanda ...	29.87	50	Z	0	b	29.78	+ .11	48	44	- 2	NNW	2	b	*	59	45	-	
Hernösand ...	29.87	47	Z	0	b	29.78	- .09	51	47	0	N	4	bc	*	60	41	-	
Stockholm ...	29.73	54	Z	0	o	29.69	- .14	53	50	- 2	NNW	4	o	*	62	46	-	
Wisby ...	29.71	53	SW	4	r	29.46	- .13	54	50	- 3	NNW	6	o	*	61	50	0.63	
Bodö ...	29.79	48	WSW	6	c	29.84	+ .21	49	45	+ 2	S	2	c	1	49	45	-	
Christiansund	29.91	51	W	2	r	29.91	+ .06	48	46	- 2	NNW	2	r	3	54	46	0.29	
Skudesnaes ...	29.88	51	NNW	6	bc	29.89	- .00	54	48	+ 1	NNW	6	b	3	67	48	-	
Christiania Fjord (Færdler)	29.78	57	ESE	2	b	29.80	- .01	52	49	- 1	NNE	3	b	2	57	52	-	
Skagen (The Scaw)	29.76	51	W	1	b	29.78	- .06	54	52	+ 1	Z	0	bc	0	59	45	-	
Fanö ...	29.80	50	NW	2	r	29.79	- .06	52	51	- 1	NNW	4	bc	*	59	48	1.10	
Sumburgh Head	30.04	47	NNW	3	bc	30.10	+ .08	49	43	+ 1	N	3	b	2	51	41	-	
Stornoway ...	30.16	50	NE	2	bc	30.19	+ .06	51	47	+ 3	S	2	b	2	52	38	-	
Wick ...	30.12	47	NW	2	bc	30.17	+ .07	50	48	+ 1	N	2	bc	1	54	40	0.10	
Nairn ...	30.14	50	NNW	2	c	30.19	+ .08	47	44	- 2	W	1	c	1	57	39	0.04	
Aberdeen ...	30.13	48	NNW	2	bc	30.19	+ .11	48	46	0	NNW	2	bc	2	54	41	0.05	
Leith ...	30.12	49	NE	1	c	30.21	+ .09	50	47	+ 1	W	2	b	*	61	45	0.01	
Shields ...	30.09	54	N	3	c	30.18	+ .12	49	45	+ 1	NNW	2	bc	4	61	42	-	
Spurn Head ...	30.07	53	N	5	b	30.15	+ .13	50	48	- 4	NNW	5	bc	4	56	46	0.02	
York ...	30.09	54	N	1	b	30.19	+ .12	49	46	+ 0	NNW	2	b	*	56	38	-	
Loughborough	30.10	55	NE	1	b	30.21	+ .14	49	46	0	NNW	2	bc	*	61	40	-	
BRITISH ISLANDS.																		
Ardrossan ...	30.15	55	NW	3	c	30.22	+ .11	55	50	+ 6	E	1	bc	0	60	42	-	
Malin Head ...	30.18	52	N	2	o	30.22	+ .07	53	47	+ 2	NW	1	b	1	55	50	-	
Mullaghmore ...	30.18	54	N	4	o	30.25	+ .08	52	48	+ 1	SSE	1	c	2	57	44	-	
Belmullet ...	30.19	55	NE	1	o	30.26	+ .08	53	50	- 2	S	1	b	*	58	51	0.06	
Donaghadee ...	30.14	53	NNE	4	c	30.24	+ .11	54	50	+ 1	NE	3	b	1	57	48	0.08	
Liverpool (Bldston)	30.13	53	NNW	2	o	30.21	+ .10	51	47	0	ESE	1	bc	2	58	47	-	
Holyhead ...	30.14	55	NNW	1	c	30.20	+ .10	54	50	- 1	NNW	3	bc	2	59	50	-	
Parsonstown ...	30.17	52	NW	1	r	30.28	+ .10	43	42	- 2	Z	0	b	*	60	36	0.07	
Valencia ...	30.22	58	NW	2	c	30.27	+ .08	52	50	0	Z	0	bc	1	62	40	-	
Roche's Point...	30.17	58	W	2	bc	30.24	+ .09	52	49	- 1	NNW	1	b	2	62	48	-	
Pembroke (St. Ann's Hd.)	30.15	58	NW	2	bc	30.21	+ .11	52	51	- 3	NE	1	bc	1	60	49	-	
Soilly ...	30.18	57	NW	4	bc	30.19	+ .11	59	57	+ 1	NNW	2	bc	2	60	54	-	
Prawle Point...	30.13	53	W	4	c	30.18	+ .11	59	54	+ 2	N	2	b	1	61	48	-	
Jersey (St. Aubin's)	30.09	59	NNW	3	b	30.18	+ .16	61	54	+ 2	NW	4	bc	3	63	48	-	
Hurst Castle ...	30.09	60	NNE	2	b	30.19	+ .13	52	50	+ 2	NNE	2	m	1	63	47	-	
Dungeness ...	30.03	57	N	5	bc	30.13	+ .13	49	46	- 6	NNW	3	m	1	61	39	-	
London ...	30.08	57	NNW	1	bc	30.17	+ .12	49	46	+ 2	N	1	c	*	62	39	-	
Oxford ...	30.13	48	N	1	o	30.20	+ .13	49	46	+ 1	NW	1	b	*	61	40	-	
Cambridge ...	30.09	51	NNW	1	c	30.16	+ .13	51	47	0	N	1	c	*	62	40	-	
Yarmouth ...	30.03	53	NNW	4	c	30.09	+ .14	54	48	+ 1	NNW	4	bc	4	56	43	0.19	
GERMANY & HOLLAND.																		
Cuxhaven ...	29.82	54	W	2	c	29.86	+ .02	53	52	0	NNW	4	r	*	60	53	0.20	
Berlin ...	29.89	54	W	2	b	29.96	+ .12	50	49	- 4	SW	4	b	*	59	45	0.35	
Wiesbaden ...	*	*	*	*	*	30.08	+ .18	51	49	- 2	NW	1	b	*	61	43	0.04	
Munich ...	30.04	49	SW	1	b	30.00	+ .06	49	48	+ 2	NE	4	c	*	55	43	0.16	
The Helder ...	29.93	53	NNW	3	r	29.99	+ .11	53	51	0	N	2	o	3	59	53	0.28	
FRANCE AND BELGIUM.																		
Brussels (9 A.M.)	*	*	*	*	*	30.07	+ .10	50	48	- 2	NW	2	bc	*	62	43	0.04	
Cape Gris Nez	30.06	56	E	4	c	30.11	+ .10	51	49	- 3	N	4	bc	4	64	48	-	
Paris ...	30.01	56	NNE	1	bc	30.12	+ .10	49	47	+ 1	NNW	2	c	*	66	44	-	
Brest ...	30.12	59	NE	4	bc	30.18	+ .25	53	51	+ 2	NE	1	bc	2	68	48	-	
Lorient ...	30.08	60	N	4	b	30.20	+ .27	53	52	0	NNW	3	b	3	61	52	-	
Rochefort ...	30.00	53	NNE	6	c	30.12	+ .17	54	52	- 4	NNW	4	b	2	68	48	0.39	
Belfort ...	30.01	58	W	1	r	29.95	- .02	55	48	0	W	1	r	*	59	48	0.16	
Lyons ...	29.99	58	E	1	o	30.00	- .07	49	48	- 3	N	1	o	*	66	48	0.12	
Nice ...	29.88	67	SE	4	b	29.94	+ .19	62	56	- 1	Z	0	bc	3	77	55	-	
Perpignan ...	29.99	64	Z	0	b	30.03	- .08	61	54	0	W	4	o	*	?	?	-	
Biarritz ...	29.99	66	NNW	6	c	30.16	+ .12	59	57	- 2	SE	3	o	5	73	55	0.08	
PENINSULA.																		
Corunna ...	*	*	*	*	*	30.26	+ .15	58	54	- 5	NNE	2	b	5	66	50	-	
Lisbon ...	30.16	71	NNE	4	b	30.10	- .11	60	55	- 1	N	5	b	4	73	58	-	

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

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

WEATHER CHARTS

for 8 a.m. on

Sunday, 31st August,

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.
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SEA DISTURBANCE—Where considerable, is shown thus:

▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

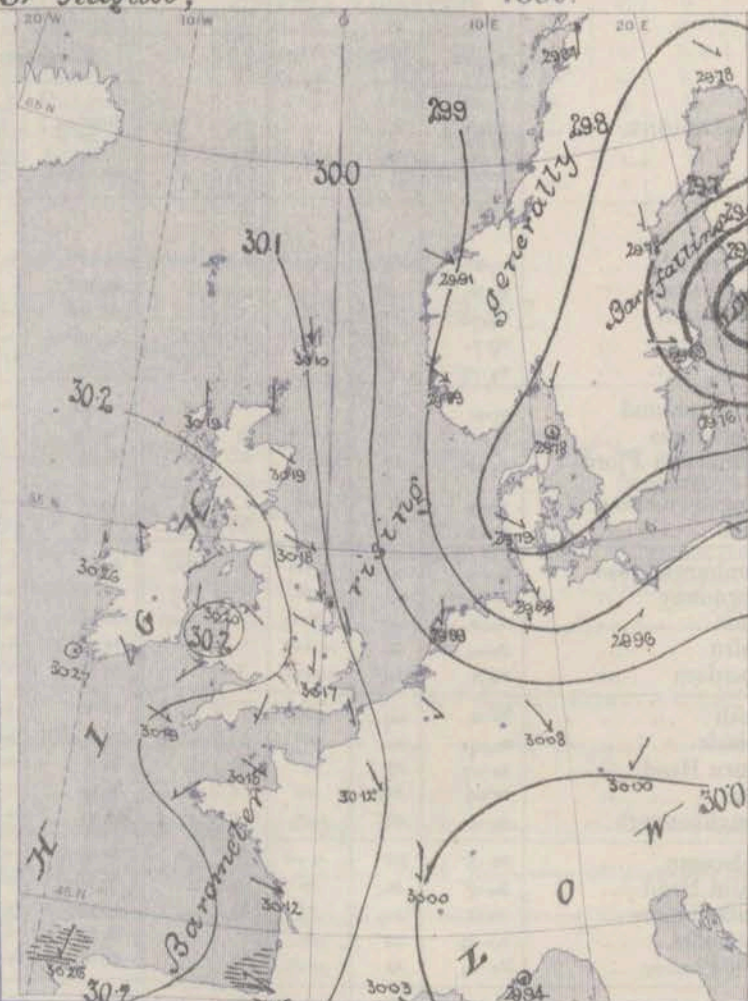
at 8.0 a.m. for the month of August.

During the 15 Years: 1871—1885.

STATIONS.

MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.793
Stornoway	29.802
Wick	29.818
Nairn	29.827
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York	29.907
Loughborough	29.925
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Donaghadee	29.877
Holyhead	29.904
Liverpool	29.903
Parsonstown	29.919
Valencia	29.922
Roche's Point	29.922
Pembroke	29.921
Scilly	29.958
Jersey	29.975
Hurst Castle	29.960
Dover	29.950
LONDON	29.952
Oxford	29.943
Cambridge	29.934
Yarmouth	29.920



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.

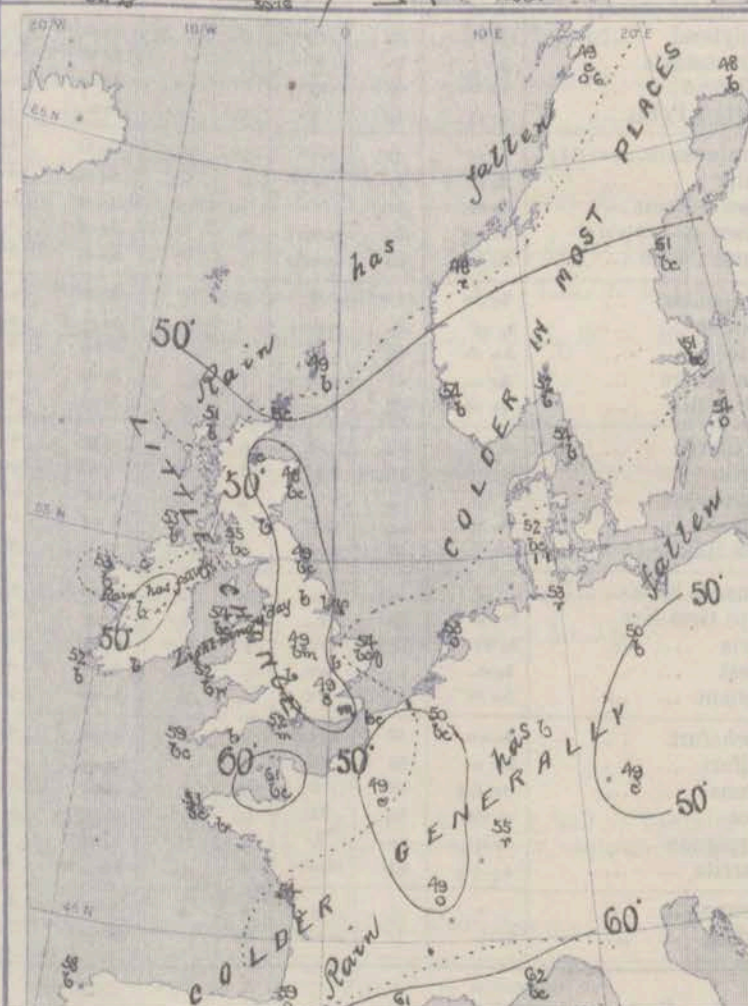
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of August.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	67.9	48.5	53.8	52.0	3.21
Stornoway.....	58.5	49.0	55.2	53.3	3.57
Wick.....	61.1	48.5	55.2	53.2	2.35
Nairn.....	63.4	50.2	55.6	52.7	2.81
Aberdeen.....	63.1	50.2	56.7	53.6	3.13
Leith.....	65.8	51.4	57.6	54.6	2.62
Shields.....	63.5	52.3	57.5	54.9	2.81
York.....	68.1	51.4	58.0	55.3	2.47
Loughborough.....	70.5	52.1	59.9	57.4	2.61
Ardrossan.....	64.0	53.1	57.3	54.9	4.08
Donaghadee.....	61.8	52.0	57.0	55.5	2.90
Holyhead.....	64.3	55.0	58.5	56.4	2.89
Liverpool.....	65.7	54.3	58.7	55.5	2.79
Parsonstown.....	66.2	51.7	57.6	53.7	3.48
Valencia.....	65.0	54.1	59.4	57.0	4.65
Roche's Point.....	66.6	53.3	59.0	56.4	3.59
Pembroke.....	63.7	55.8	58.9	56.0	2.91
Scilly.....	64.9	57.2	61.1	59.1	2.45
Jersey.....	69.0	57.4	63.1	60.0	2.25
Hurst Castle.....	68.1	56.1	61.2	59.1	2.31
Dover.....	67.1	57.2	62.6	59.0	2.08
LONDON.....	71.8	53.7	61.4	57.8	2.20
Oxford.....	69.2	53.4	59.2	56.4	2.33
Cambridge.....	71.3	52.1	60.2	57.3	2.25
Yarmouth.....	66.4	55.1	60.8	57.0	2.17

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: to 30.2 in: and more, over the British Islands, France, the north of Spain, and the Bay of Biscay.
 Lowest, 29.7 in: and less, in a depression over the Baltic and Finland; 30.0 in: and less, over the southeast of France.
 Gradients slight over our Islands, France, and Germany and irregular, moderate over the North Sea.
 Barometer falling over the Baltic and Finland, rising slowly in our Islands — most in the south and east.

TEMPERATURE

Highest, 61° to 62° in the south of France, 60° at Lisbon, 58° at Seville and Barcelona.
 Lowest, 43° at Lancaster, 47° at Nain, 48° at Haparanda and Aberdeen, 49° at Porto, Edinburgh, St. Shields, Oxford, London, and Paris.
 It has been as low as 38° in the shade at Bornemoy, 39° at Nain, Dungeness and in London, and 40° at Foulness, Oxford, and Cambridge during the night.

WIND

NW to N over the British Islands and Western Europe as a whole, but varied locally over North Wales and the southwest of England, as well as over the SE. of France.
 In force it runs light to moderate generally.

WEATHER

Fine and bright over our Islands and the western part of the Continent as a whole, rather showery on our northeast and east coasts.
 On the Continent generally it is variable; rain is falling at Christiansund, and has fallen very generally over the southeast of France and the countries lying to the eastward of the North Sea.

SEA

Moderate along our northeast and east coasts and at Cape Viz, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

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

DISTRICTS.

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

FORECASTS.

NONE ISSUED.

DISTRICTS.

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

FORECASTS.

NONE ISSUED.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.88	57	50	NN	6	b	2	Holyhead ...	30.14	58	52	N	1	b	1
Sumburgh Head ...	30.04	50	45	NNW	3	b	3	Valencia ...	30.22	62	58	NN	3	bcr	3
Stornoway ...	30.16	51	46	NE	2	c	2	Scilly ...	30.14	60	56	NNE	4	b	3
Aberdeen ...	30.10	53	47	N	3	cq	3	Jersey ...	30.06	63	55	N	3	b	3
Shields ...	30.09	54	48	N	3	c	4	Dungeness ...	30.01	59	51	N	4	b	2
Ardrossan ...	30.10	52	53	NN	3	b	2	London ...	30.06	57	51	NNW	2	cm	*
Malin Head ...	30.17	53	47	N	2	o	1	Yarmouth ...	30.00	55	51	N	4	cpg	4
Mullaghmore ...	30.18	57	51	NW	1	c	1	Rochefort ...	29.91	66	63	W	4	o	2
Belmullet ...	30.19	55	52	SW	1	o	*								

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

Weather in morning fine over the United Kingdom and North Sea generally, as well as over Spain, the southern shores of the Mediterranean and Southern Europe; very cloudy, changeable and unsettled elsewhere, with rain at Porto, as well as over Germany and the Baltic Provinces. Rainfall heavy locally in many parts of Europe, fall general and in places heavy over Germany, and weather rough at the Baltic stations as a whole.

Temperature low for time of year almost everywhere, but especially over the British Islands and Northwestern Europe. Morning readings exceeding 70° on the southern and eastern shores of the Mediterranean and Adriatic and on the shores of the Black Sea. Much lower over the northern and northwestern countries, as low as 45° at Laronskron, 47° at Rodo and in London, 48° at Paris, York, Aberdeen and Sumburgh Hd. Rising to very little above 60° over the British Islands and Germany later, to rather higher over France, to 80° or more over Algeria and to upwards of 90° in some parts of Italy.

Winds light from the N.W. at our western stations, moderate to fresh on our east coasts. Cyclonic circulation of brisk breezes round shallow depressions over the Bay of Biscay and Eastern Prussia; and of gales round another over the Gulf of Genoa. System over Eastern Prussia moving northwards later, and causing very rough weather at some Baltic stations. [The newspapers report a terrible gale at Helmingfor.]

Barometer highest 30.0 ins: to 30.2 ins: and more over Spain, the British Islands and neighbouring parts of Atlantic, 30.0 ins: to 30.2 ins: over Central and Southern Russia; lowest 29.7 ins: and less, over Lapland, and between Breslau and Munich, 29.8 ins: and less, over the Gulf of Genoa, 29.9 ins: and less, over the Bay of Biscay. Latter depression moving eastwards later and filling up, that over Poland moving northwards and growing deeper.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

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 9.)	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.			
1	Belfort	29.98	64	E	1	b	29.98	-16	68	?	+4	W	1	bc	*	85	57	-		
	Corunna	*	*	*	*	*	30.06	-04	73	68	+11	NNE	1	0	2	73	59	-		
2	Haparanda	29.61	62	Z	0	c	29.65	-00	59	59	-4	S	2	r	*	72	55	-		
	Hernösand	29.70	61	Z	0	c	29.74	+08	60	55	-3	NW	2	bc	*	72	52	-		
	Stockholm	29.79	64	N	2	c	29.81	+07	64	57	+1	SW	2	b	*	72	55	0.20		
	Kisby	29.81	62	S	2	b	29.83	+02	63	60	0	NW	4	b	*	68	61	-		
	Brussels	*	*	*	*	*	29.93	-06	59	-	-14	NW	2	0	*	86	58	0.08		
4	Corunna	*	*	*	*	*	30.08	-06	69	63	+3	NE	1	b	2	72	54	-		
5	Brussels	*	*	*	*	*	30.21	-02	64	-	+4	NNE	1	b	*	66	51	0.85		
	Lyon	30.17	59	NW	2	kl	30.15	-05	59	-	-1	NW	4	r	*	71	54	0.47		
	Corunna	*	*	*	*	*	30.04	-04	70	-	+1	NE	1	bc	5	82	66	-		
6	Munich	30.03	60	Z	0	c	30.04	-05	60	-	0	N	4	c	*	64	54	-		
	Corunna	*	*	*	*	*	29.99	-05	69	64	-1	N	1	f	4	86	54	-		
7	Brussels	*	*	*	*	*	30.06	-	59	-	-	NW	1	bc	*	75	59	-		
	Corunna	*	*	*	*	*	29.95	-04	62	61	-7	NW	1	f	4	86	55	-		
8	Corunna	*	*	*	*	*	29.90	-05	63	64	+6	NW	1	f	2	68	59	-		
9	Haparanda	30.12	58	Z	0	b	30.15	+04	57	54	-1	Z	0	b	*	64	43	-		
	Hernösand	30.19	54	Z	0	b	30.24	+11	58	52	-1	NNE	2	b	*	75	50	-		
	Stockholm	30.16	57	NE	2	b	30.17	+09	61	55	-1	N	2	c	*	70	52	-		
	Kisby	30.07	62	NE	4	c	30.12	+09	58	55	-4	NE	4	b	*	64	54	-		
	Skudesnaes	30.19	59	NW	2	b	30.25	+09	62	-	+1	E	2	bc	1	64	52	-		
	Corunna	*	*	*	*	*	29.79	-11	66	62	-2	SE	3	0	4	75	59	-		
10	Brussels	*	*	*	*	*	29.85	-13	67	-	+6	ESE	2	0	*	78	59	0.04		
	Lyon	29.87	76	S	1	bc	29.94	+01	68	-	+4	ESE	1	b	*	84	61	-		
11	Corunna	*	*	*	*	*	30.10	+22	71	66	+1	S	1	b	3	77	61	-		
12	Corunna	*	*	*	*	*	30.05	-05	67	65	-4	SE	2	0	3	77	61	-		
13	Corunna	*	*	*	*	*	30.01	-04	64	62	-3	N	4	0	4	73	61	0.28		
14	Corunna	*	*	*	*	*	30.11	+10	65	59	+1	N	1	b	4	72	52	-		
15	Haparanda	29.81	59	Z	0	c	29.80	+11	59	58	-1	NE	2	0	*	66	54	-		
	Hernösand	29.79	60	SSW	2	0	29.62	-12	62	60	-4	NE	6	0	*	73	50	-		
	Stockholm	29.71	63	ESE	4	0	29.61	-16	61	59	-5	N	4	0	*	72	54	-		
	Kisby	29.65	63	S	4	b	29.73	-04	61	58	-3	NW	6	b	*	73	54	0.08		
	Lyon	30.05	61	E	1	0	30.14	+19	57	-	+1	NE	1	bc	*	67	49	-		
	Corunna	*	*	*	*	*	30.10	-01	64	59	-1	ENE	1	b	4	72	52	-		
16	Corunna	*	*	*	*	*	30.06	-04	69	65	+5	NW	2	b	4	73	54	-		
18	Haparanda	29.55	58	SW	1	0	29.58	-20	59	-	-3	SW	4	0	*	68	52	0.51		
	Hernösand	29.89	56	SW	4	c	29.90	+25	59	-	+2	S	4	bc	*	61	52	0.24		
	Stockholm	29.89	57	SW	2	b	29.92	+22	63	-	+3	SW	2	bc	*	68	48	-		
	Kisby	29.98	59	S	4	b	29.96	+09	63	-	+4	S	4	bc	*	68	54	-		
	Brussels	*	*	*	*	*	29.84	-28	62	-	0	SE	1	bc	*	74	55	0.04		
	Corunna	*	*	*	*	*	29.81	-11	64	62	0	NW	5	0	4	73	54	0.04		
19	Corunna	*	*	*	*	*	29.97	+16	67	62	+3	SSW	1	b	4	70	55	0.12		
20	Corunna	*	*	*	*	*	30.11	+14	62	60	-5	NW	1	b	3	68	61	-		
21	Corunna	*	*	*	*	*	30.24	+13	65	60	+3	N	1	b	3	72	52	-		
22	Corunna	*	*	*	*	*	30.29	+05	68	64	+3	N	5	b	6	70	61	-		
23	Haparanda	29.50	51	Z	0	bc	29.50	+05	49	45	-4	NE	2	c	*	65	43	0.12		
	Hernösand	29.39	56	SE	2	r	29.29	-29	57	55	+7	SE	2	0	*	66	43	0.51		
	Stockholm	29.49	54	NW	4	b	29.49	-13	56	50	-3	N	6	bc	*	63	46	0.24		
	Kisby	29.58	59	NW	6	b	29.65	-04	58	-	-4	N	8	bc	*	64	55	0.04		
	Corunna	*	*	*	*	*	30.07	-22	63	57	-5	NW	2	0	6	75	59	-		
25	Corunna	*	*	*	*	*	30.09	+02	64	59	+1	NW	3	b	6	70	55	0.08		
26	Munich	29.80	47	N	4	b	29.88	+15	50	-	-4	SW	5	c	*	59	43	1.42		
	Corunna	*	*	*	*	*	30.02	-04	65	63	+1	SSW	5	r	4	70	61	0.04		
27	Corunna	*	*	*	*	*	29.92	-10	60	59	-5	N	4	r	4	72	54	0.16		
28	Scilly	29.66	58	NW	5	bc	29.74	+83	58	58	+2	NW	4	bc	4	59	50	0.06		
	Corunna	*	*	*	*	*	30.00	+08	63	59	+3	SSW	4	c	6	68	55	0.04		
29	Corunna	*	*	*	*	*	30.22	+22	66	60	+3	NW	4	b	6	70	55	0.04		
30	Corunna	*	*	*	*	*	30.11	-11	68	61	-3	NW	5	r	6	70	54	0.16		

2. CORRECTIONS.

[illegible]