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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 *Monday, 1st September, 1890.*
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

Issued by the Meteorological Office, 55, Abchurch Lane, London, E.C. 4, H. H. SCOTT, Secretary.																		
STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM. Reading at 32° F. and Sea Level.	TEMP. Dry.	WIND.		Weather.	BAROMETER. Reading at 32° F. and Sea Level. Difference from 8 a.m. yesterday.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Direc.	Force. (0 to 12.)				Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...	29.69	49	2	0	c	29.79	+ 0.1	50	48	+ 2	NW	4	0	*	59	36	-
	Hernösand ...	29.91	49	2	0	b	30.07	+ 0.2	48	44	- 3	N	2	0	*	66	41	-
	Stockholm ...	29.95	51	E	2	7	30.06	+ 0.3	50	51	+ 3	E	2	0	*	63	45	0.32
	Wisby ...	29.90	52	ESE	2	b	30.01	+ 0.25	54	52	0	SW	2	0	*	61	50	-
	Bodö ...	29.84	47	SW	4	c	29.94	+ 0.10	49	46	0	W	2	0	1	52	45	0.24
	Christiansund	29.97	50	NW	3	c	30.09	+ 0.18	49	46	+ 1	S	2	0	3	52	46	0.24
	Skudesnaes ...	30.00	52	NW	6	c	30.11	+ 0.22	53	48	- 1	NW	4	0	2	58	46	-
	Christiania Fjord (Færdier)	29.90	58	ESE	1	0	30.01	+ 0.21	53	50	+ 1	NNE	2	0	2	59	?	-
	Skagen (The Scaw)	29.91	52	W	0	b	30.02	+ 0.24	55	52	+ 1	W	0	0	0	68	46	-
	Fanö ...	30.01	50	NW	4	b	30.10	+ 0.31	55	52	+ 3	NW	3	0	*	59	48	0.04
BRITISH ISLANDS.	Sumburgh Head	30.13	50	NW	1	c	30.08	- 0.02	53	49	+ 4	SSE	2	0	2	53	43	-
	Stornoway ...	30.15	53	SW	4	c	29.91	- 0.28	53	53	+ 2	SW	7	0	6	53	49	0.02
	Wick ...	30.20	52	E	2	b	30.02	- 0.15	54	52	+ 4	S	2	0	2	57	47	-
	Nairn ...	30.16	55	W	0	c	30.02	- 0.17	53	50	+ 6	W	0	0	0	61	44	-
	Aberdeen ...	30.21	54	W	0	b	30.12	- 0.07	51	47	+ 3	S	2	0	2	58	38	-
	Leith ...	30.21	56	SSE	1	b	30.15	- 0.06	55	51	+ 5	SSE	1	0	*	59	43	-
	Shields ...	30.24	55	N	1	b	30.22	+ 0.04	46	43	- 3	NW	2	0	2	66	40	-
	Spurn Head ...	30.24	54	N	4	b	30.28	+ 0.13	54	48	+ 4	SW	3	0	3	56	47	-
	York ...	30.24	56	NW	2	b	30.29	+ 0.10	44	42	- 5	S	1	0	*	59	37	-
	Loughborough	30.26	56	NE	1	b	30.31	+ 0.10	44	44	- 5	ESE	1	0	*	64	36	-
GERMANY & HOLLAND.	Ardrossan ...	30.25	55	N	1	b	30.11	- 0.11	55	53	0	SSW	4	0	4	60	49	-
	Malin Head ...	30.24	55	W	2	0	30.00	- 0.22	55	54	+ 2	SW	6	0	3	60	52	0.13
	Mullaghmore ...	30.25	57	W	0	0	30.08	- 0.17	55	55	+ 3	SSW	5	0	2	58	51	0.25
	Belmullet ...	30.24	55	SW	2	0	30.08	- 0.18	57	57	+ 4	NW	5	0	*	59	53	0.26
	Donaghadee ...	30.26	54	SW	2	b	30.17	- 0.07	52	52	- 2	SW	3	0	1	59	52	0.02
	Liverpool (Bidston)	30.27	56	NW	1	b	30.24	+ 0.06	54	50	+ 3	SSE	1	0	2	59	44	-
	Holyhead ...	30.27	55	N	2	b	30.25	+ 0.05	56	53	+ 2	SW	3	0	2	58	48	-
	Parsonstown ...	30.27	57	W	0	c	30.19	- 0.09	54	51	+ 11	W	0	0	*	61	47	0.01
	Valencia ...	30.30	59	SW	2	b	30.22	- 0.05	58	57	+ 6	SW	4	0	4	61	51	0.01
	Roche's Point...	30.30	55	S	2	b	30.28	+ 0.04	58	56	+ 6	SW	3	0	4	61	49	-
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.29	53	NE	2	b	30.30	+ 0.09	56	54	+ 4	SW	2	0	1	58	48	-
	Scilly ...	30.32	59	NE	2	b	30.30	+ 0.11	60	58	+ 1	SSE	2	0	2	62	44	-
	Prawle Point ...	30.28	55	NW	2	b	30.34	+ 0.16	58	54	+ 1	NW	1	0	0	63	46	-
	Jersey (St. Aubin's)	30.27	60	N	3	b	30.36	+ 0.18	56	53	+ 3	W	0	0	0	63	43	-
	Hurst Castle ...	30.31	60	NNE	2	b	30.35	+ 0.16	55	53	+ 3	E	1	0	1	62	44	-
	Dungeness ...	30.21	58	N	4	c	30.31	+ 0.18	54	48	+ 5	N	2	0	1	61	49	-
	London ...	30.25	58	N	2	b	30.34	+ 0.17	49	46	0	SW	1	0	*	62	38	-
	Oxford ...	30.30	47	N	1	b	30.34	+ 0.14	49	46	0	NNE	1	0	*	62	36	-
	Cambridge ...	30.28	50	N	1	b	30.34	+ 0.18	48	47	- 3	SW	1	0	*	62	35	-
	Yarmouth ...	30.20	55	NW	4	b	30.30	+ 0.21	53	50	- 1	NW	3	0	3	58	41	0.02
GERMANY & HOLLAND.	Cuxhaven ...	30.02	57	NW	5	b	30.15	+ 0.29	58	56	+ 5	NW	4	0	*	59	?	0.08
	Berlin ...	30.05	54	W	0	b	30.15	+ 0.19	51	49	+ 1	NW	2	0	*	61	48	-
	Wiesbaden ...	*	*	*	*	*	30.20	+ 0.12	51	46	?	NW	2	0	*	59	48	-
	Munich ...	29.98	48	NW	5	7	30.06	+ 0.06	46	46	- 3	SW	4	0	*	66	?	0.75
	The Helder ...	30.15	52	NW	2	7	30.25	+ 0.26	55	48	+ 2	N	2	0	3	57	52	?
	Brussels (9 a.m.)	*	*	*	*	*	30.28	+ 0.21	53	50	+ 3	NW	2	0	*	60	42	0.16
	Cape Gris Nez	30.20	54	N	4	c	30.29	+ 0.18	53	48	+ 2	N	3	0	3	61	50	-
	Paris ...	30.21	54	NW	3	c	30.32	+ 0.20	48	46	- 1	NW	2	0	*	63	41	-
	Brest ...	30.27	59	N	2	b	30.37	+ 0.19	53	51	0	ESE	2	0	2	?	45	-
	Lorient ...	30.26	59	W	0	b	30.36	+ 0.16	51	49	- 2	E	2	0	1	64	50	-
FRANCE AND BELGIUM.	Rochefort ...	30.28	62	NW	4	b	30.38	+ 0.26	52	50	- 2	NNE	3	0	*	68	45	-
	Belfort ...	29.94	53	NW	1	7	30.13	+ 0.18	?	?	?	W	1	0	*	61	47	1.18
	Lyons ...	30.15	49	N	1	0	30.21	+ 0.21	47	44	- 2	NW	1	0	*	54	44	0.32
	Nice ...	29.75	62	S	4	b	?	?	52	47	- 4	W	4	0	4	77	55	-
	Perpignan ...	30.08	63	NW	3	0	30.18	+ 0.15	58	50	- 3	NW	4	0	*	69	53	-
	Biarritz ...	30.22	64	N	4	b	30.28	+ 0.12	54	51	- 5	SE	3	0	2	66	50	0.28
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lisbon ...	30.03	60	NW	5	b	30.02	- 0.08	65	52	+ 5	NNE	6	0	5	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

Monday, 1st September,

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:

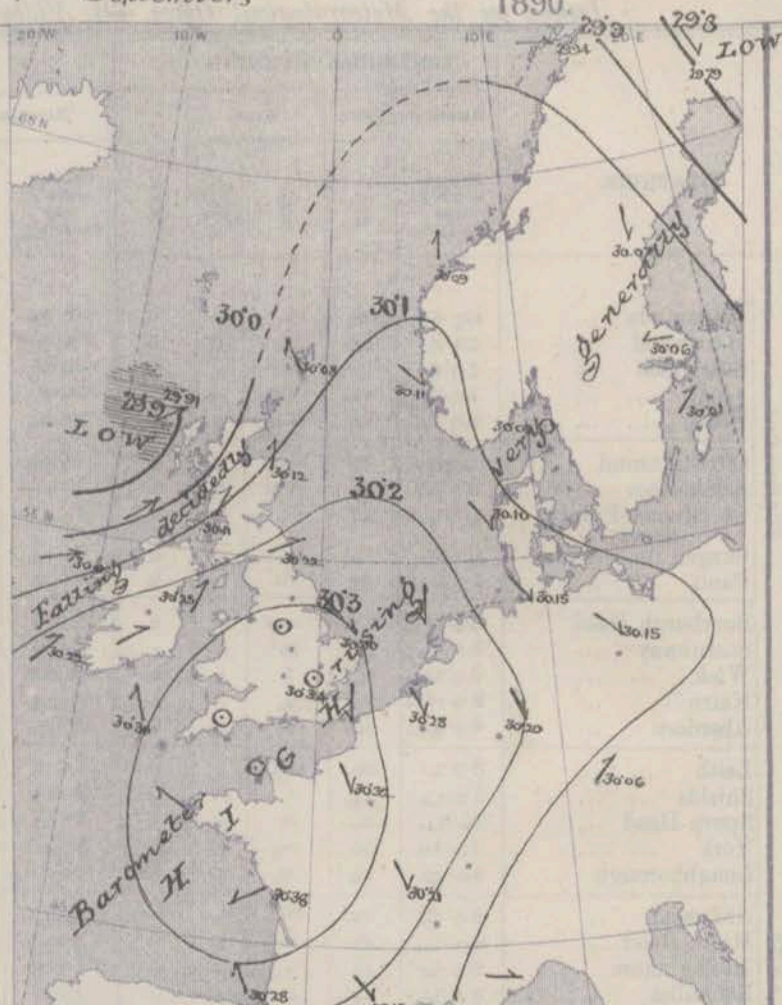
— = Rough. — = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.766
Stornoway	29.780
Wick	29.793
Nairn	29.809
Aberdeen	29.819
Leith	29.846
Shields	29.869
York	29.905
Loughborough	29.924
Ardrossan	29.950
Donaghadee	29.869
Holyhead	29.894
Liverpool	29.899
Parsonstown	29.904
Valencia	29.917
Roche's Point	29.915
Pembroke	29.913
Scilly	29.943
Jersey	29.955
Hurst Castle	29.960
Dover	29.941
LONDON	29.946
Oxford	29.935
Cambridge	29.931
Yarmouth	29.916



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.2 in. to 30.3 in. and more, over France, the Bay of Biscay, England, and the southeast of Ireland.
 Lowest, 29.9 in. and less, both off our extreme northwestern coasts, and over the Gulf of Bothnia.
 Gradients moderate for SW winds over our northwestern districts and increasing.
 Barometer falling decidedly in Ireland and Scotland, rising slightly over France and the southeast of England.

TEMPERATURE

Highest, 65° at Bittern, 60° at Kelly, 58° in the south of Ireland and at Tralee Point.
 Lowest, 44° at York and Loughborough, 46° at Cambridge, 49° at Oxford, London and Paris.
 It has been as low as 38° in the shade, and 29° on the grass in London during the night.

WIND

Light from the NW and N over the North Sea, Germany, and the east of France; but has shifted to the S or SW on all our west and north-west coasts and is increasing.

Force 7 is already reached at Stromness, and force 6 at Malin Head.

WEATHER

Time bright and cold over France, England, and the eastern shores of the North Sea, cloudy and unsettled on our west and north-west coasts, with a good deal of rain in the northwest of Ireland.
 Much rain has fallen again in South Germany and the southeast of France.

SEA

Rough in the Minch, moderate at Anderson, Valencia, and Rotherhithe, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Rainy, squally, weather is likely to prevail very generally in the western and northern parts of our Islands today, and may very probably reach the central and eastern parts of England tomorrow.

FORECASTS

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

DISTRICTS.

FORECASTS.

- | | | |
|---|------------------|---|
| 0 | SCOTLAND NORTH | S ^{ly} and SW ^{ly} winds, increasing; squally, showery. |
| 1 | SCOTLAND EAST | |
| 2 | ENGLAND N.E. | S ^{ly} winds, freshening; warmer, fair to showery. |
| 3 | ENGLAND EAST | |
| 4 | MIDLAND COUNTIES | SW ^{ly} and S ^{ly} breezes, freshening; warmer, fair generally. |
| 5 | ENGLAND SOUTH | |

DISTRICTS.

FORECASTS.

- | | | |
|----|---------------|--|
| 6 | SCOTLAND WEST | S ^{ly} breezes, freshening; squally, showery. |
| 7 | ENGLAND N.W. | |
| 8 | ENGLAND S.W. | S ^{ly} winds, strong, a gale in places, squally, showery. |
| 9 | IRELAND NORTH | |
| 10 | IRELAND SOUTH | |

WARNINGS

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

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND		WEA.	SEA		BAR.	THER.		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.94	55	48	NW	7	c	3	Holyhead ...	30.25	58	51	N	3	c	2
Sumburgh Head								Valencia ...							
Stornoway ...	30.17	56	51	SW	4	c	4	Scilly ...							
Aberdeen ...								Jersey ...	30.23	63	56	ESE	3	bc	3
Shields ...								Dungeness ...	30.15	59	51	NW	3	c	2
Ardrossan ...								London ...							*
Malin Head ...	30.26	58	52	NW	1	o	0	Yarmouth ...							
Mullaghmore ...								Rochefort ...	30.02	65	56	NW	3	bc	2
Belmullet ...	30.26	57	52	SW	1	o	*								

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

Weather fine and bright over the British Islands and W. Europe generally, as well as over the S. and E. parts of the Mediterranean and central parts of Russia; cloudy and very unsettled over N. Europe, especially over Finland, the S. of Sweden, and the Baltic Provinces. Heavy rain falling subsequently over S. Germany and the S.E. of France, smaller quantities over Scandinavia, and rainy unsettled conditions settling in on our NW. coasts.

Temperature still very low for the time of year in most places, morning readings exceeding 70° on the S. and S.E. coasts of the Mediterranean, and on the shores of the Black Sea, and exceeding 60° locally at St. Petersburg; much lower over W. and N. Europe, and as low as 43° at Parsonstown, 47° at Naum, Le Mans and Alenborg, and 49° at Bode, Sumburgh Head, Cork, London, Paris and Lyons, 50° at Brussels and Berlin. Rising to between 60 and 64° over England later and to 77° at Nice and Lisbon, but becoming very low at inland stations towards night.

Wind very light over the British Islands and W. Europe, and mainly NW. to N. in direction, calm over Ireland, cyclonic circulation of strong winds prevalent over the Baltic and Finland, NE. to NW. breezes over S. Europe, variable airs of the central countries and in central Russia.

Barometer highest 30.1 ins. to nearly 30.5 ins. over the British Islands, France, Spain and adjacent parts of the Atlantic, exceeding 30.0 ins. over N. and central Russia also. Lowest about 29.3 ins. in the centre of a deep depression near Helsingfors, and below 29.9 ins. in a shallow disturbance over the Black Sea. Beginning to fall in the N.W. parts of the British Islands later, but rise continuing over England and France.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 24TH TO 30TH AUG. 1890.

The weather of this week was changeable, showery, in many places thundery, and in all districts cold for the time of year — especially towards the close of the week. The wind was mainly W. to NW. in direction, moderate to strong in force, and blew with the force of a gale in the Channel (and especially in the Strait of Dover) on some occasions.

The depressions observed have been of a complex character, notably that of the 26th to 28th, and their movements have been slow and erratic.

At the close of the week anticyclonic N. and NW. winds prevailed all over the Kingdom; temperature was unusually low for the time of year (frosts occurring on the grass in land), but the air was dry, and the general appearance of the sky fair and improving.

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 2nd September. 1890.

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

STATIONS.		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 5.)	SHADE TEMP.		Amount of Rainfall.	
				Reading at 3 rd P.M. and Sea Level.	Dry.		Dir.	Force. (0 to 12.)	Reading at 8 A.M. and Sea Level.	Difference from 8 A.M. yesterday.	Dry.	Wet.	Difference from 8 A.M. yesterday.			Dir.	Force. (0 to 12.)		Max.
SCANDINAVIA.	Haparanda ...	30.05	49	2	0	C	30.15	+36	49	47	-1	NNW	2	bc	.	61	43	—	
	Hernösand ...	30.17	47	2	0	C	30.22	+15	46	46	-2	S	0	bc	.	63	39	—	
	Stockholm ...	30.21	50	2	0	C	30.21	+15	51	51	-5	S	0	bc	.	64	46	—	
	Wisby ...	30.11	53	ENE	2	C	30.17	+16	56	55	+2	ENE	2	bc	.	61	45	—	
	Bodö ...	30.11	46	S	1	0	30.15	+21	48	46	-1	E	2	bc	1	52	45	0.12	
	Christiansund ...	30.13	49	ENE	2	C	30.08	-0.1	48	47	-1	ENE	1	bc	1	52	45	—	
	Skudesnaes ...	30.15	48	2	0	C	30.12	+0.1	54	50	+1	SE	6	0	4	57	45	—	
	Christiania Fjord (Fæder)	30.10	58	NNW	1	C	30.17	+16	52	50	-1	NNW	3	m	2	61	52	—	
	Skagen (The Scaw)	30.12	55	2	0	C	30.17	+15	55	53	0	W	1	bc	2	63	46	—	
	Fanö ...	30.23	48	2	0	C	30.24	+14	55	52	0	E	3	bc	.	59	46	—	
BRITISH ISLANDS.	Sumburgh Head	29.93	54	SE	3	0	29.86	-22	55	55	+2	WNW	1	0	3	56	52	0.04	
	Stornoway ...	29.85	59	W	3	0	29.87	-0.4	54	53	+1	SW	4	0	4	59	55	0.02	
	Wick ...	29.89	55	S	3	0	29.90	-12	58	56	+4	SW	1	bc	1	60	50	0.05	
	Nairn ...	29.86	61	SW	1	bc	29.89	-13	57	55	+4	S	0	C	0	61	50	0.07	
	Aberdeen ...	29.97	53	SW	3	0	29.93	-19	58	57	+7	SW	3	op	3	59	51	0.04	
	Leith ...	30.02	57	W	3	0	29.96	-19	61	58	+6	W	3	cm	.	61	52	0.36	
	Shields ...	30.12	52	SW	2	T	30.03	-19	57	55	+11	SW	3	0	2	61	51	0.18	
	Spurn Head ...	30.20	60	WNW	5	C	30.15	-13	59	56	+5	SW	4	C	3	64	53	—	
	York ...	30.20	56	S	1	0	30.14	-15	57	55	+18	S	1	0	.	64	43	0.01	
	Loughborough	30.24	60	SW	1	0	30.19	-12	56	54	+12	WNW	3	od	.	66	44	—	
GERMANY & HOLLAND.	Ardrossan ...	30.02	57	SW	3	P	29.97	-14	57	57	+2	SW	4	op	3	57	52	0.72	
	Malin Head ...	29.97	58	SW	5	od	29.98	-0.2	56	56	+1	W	3	op	2	59	55	0.58	
	Mullaghtmore ...	30.04	60	SW	5	Top	30.03	-0.5	58	58	+3	SW	5	od	3	63	55	0.49	
	Belmullet ...	30.04	58	WNW	3	op	30.04	-0.4	58	58	+1	WNW	2	op	.	60	57	0.80	
	Donaghadee ...	30.06	59	SW	3	C	30.03	-14	60	60	+8	W	3	C	1	60	52	0.25	
	Liverpool (Bidston)	30.20	57	SW	3	0	30.12	-15	60	57	+6	SW	3	C	3	61	54	—	
	Holyhead ...	30.18	57	SW	4	C	30.11	-14	58	57	+2	SW	4	cmg	4	59	55	0.34	
	Parsonstown ...	30.12	61	SW	2	0	30.11	-0.8	60	57	+6	SW	2	0	3	64	53	0.09	
	Valencia ...	30.18	59	S	4	Tm	30.17	-0.5	59	56	+1	SW	3	cmg	3	62	56	0.09	
	Roche's Point...	30.20	58	SW	3	C	30.19	-0.9	60	58	+2	WNW	3	C	4	62	54	0.03	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.25	58	WNW	3	C	30.22	-0.8	58	58	+2	SW	3	op	4	60	55	0.02	
	Scilly ...	30.31	60	SW	2	bc	30.26	-0.4	58	58	-2	SW	3	0	2	63	54	0.02	
	Prawle Point ...	30.34	57	W	2	bc	30.30	-0.4	57	56	-1	WNW	3	0	2	60	49	—	
	Jersey (St. Aubin's)	30.35	61	WNW	3	bc	30.34	-0.2	60	58	+4	W	3	bcwm	3	65	46	—	
	Hurst Castle ...	30.31	59	W	3	bc	30.30	-0.5	59	56	+4	WNW	4	C	1	65	54	—	
	Dungeness ...	30.30	58	SW	3	C	30.29	-0.2	61	57	+7	W	4	bc	2	63	51	—	
	London ...	30.28	59	S	3	0	30.27	-0.7	59	54	+10	WNW	3	0	.	67	49	—	
	Oxford ...	30.29	56	SW	1	0	30.25	-0.9	58	54	+9	SW	1	bc	.	64	47	—	
	Cambridge ...	30.27	57	SW	1	0	30.24	-1.0	59	54	+11	SW	1	bc	.	67	46	—	
	Yarmouth ...	30.26	56	S	3	bc	30.24	-0.6	58	54	+5	SW	3	bc	2	58	50	—	
PENINSULA.	Cuxhaven ...	30.24	54	NNW	3	bc	30.29	+14	54	53	-4	WNW	2	bc	.	59	54	0.04	
	Berlin ...	30.22	51	NW	3	T	30.21	+0.6	51	50	0	NW	2	C	.	55	48	0.04	
	Wiesbaden ...	30.31	52	S	0	0	30.31	+1.1	52	48	+1	N	2	bc	.	61	45	—	
	Munich ...	30.17	45	SW	4	T	30.22	+1.6	44	44	-2	NW	4	T	.	48	43	2.21	
	The Helder ...	30.29	53	NNW	1	bc	30.25	0.0	52	50	-3	S	1	T	2	59	45	—	
	Brussels (9 a.m.)	30.30	57	WNW	1	bc	30.35	+0.7	53	49	0	SW	1	bc	3	60	41	0.04	
	Cape Gris Nez	30.32	55	NNW	1	bc	30.31	+0.2	54	49	+1	SW	4	bc	.	64	50	—	
	Paris ...	30.32	64	SW	2	bc	30.37	+0.5	45	44	-3	N	1	bc	.	65	58	—	
	Brest ...	30.32	64	SW	2	bc	30.32	-0.5	57	54	+4	SE	2	0	2	68	50	—	
	Lorient ...	30.35	61	SW	1	bc	30.35	-0.1	52	51	+1	NE	1	bc	1	64	50	—	

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

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

WEATHER CHARTS

for 8 a.m. on

Tuesday, 2nd September,

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:

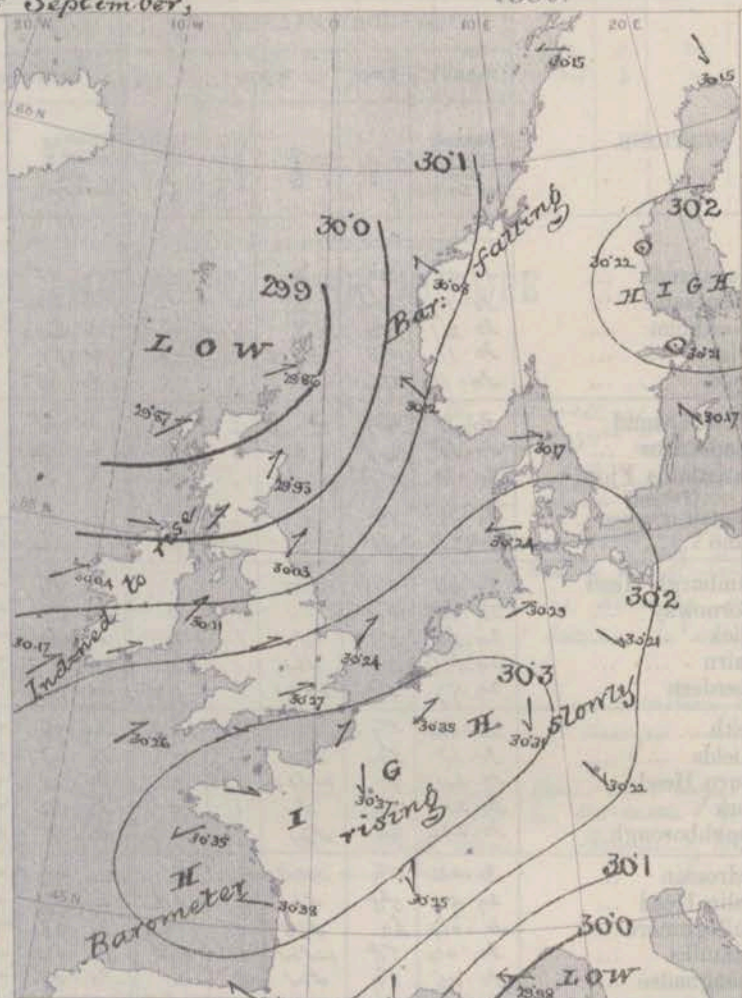
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.766
Stornoway	29.780
Wick	29.793
Nairn	29.809
Aberdeen	29.819
Leith	29.846
Shields	29.869
York	29.905
Loughborough	29.924
Ardrossan	29.850
Donaghadee	29.869
Holyhead	29.894
Liverpool	29.890
Parsonstown	29.904
Valencia	29.917
Roche's Point	29.915
Pembroke	29.913
Seilly	29.943
Jersey	29.955
Hurst Castle	29.960
Dover	29.941
LONDON	29.945
Oxford	29.935
Cambridge	29.931
Yarmouth	29.916



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.

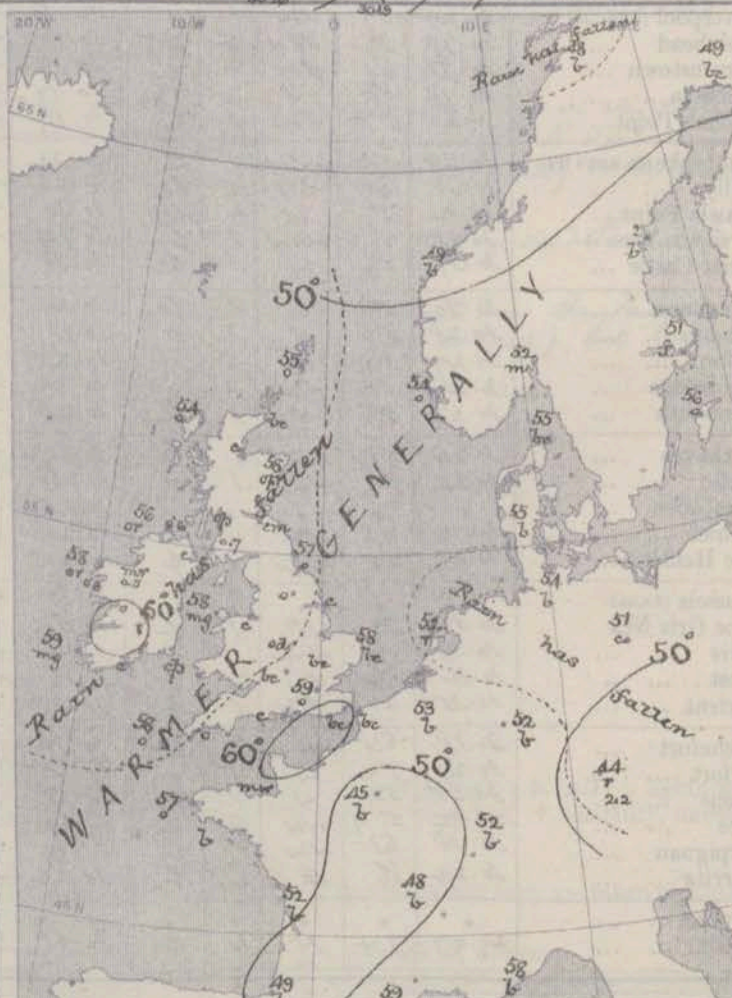
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of September.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	55.2	46.3	50.9	49.2	3.46
Stornoway	56.1	46.7	51.1	49.8	4.13
Wick.....	57.6	45.5	51.8	49.9	2.66
Nairn.....	59.0	46.8	51.2	48.8	2.74
Aberdeen.....	59.2	46.7	52.1	49.8	3.22
Leith.....	62.2	47.0	53.2	50.8	2.47
Shields.....	59.9	49.3	53.1	51.1	2.68
York.....	63.3	47.3	52.8	51.0	2.98
Loughborough.....	65.0	47.9	54.3	52.4	3.06
Ardrossan.....	69.7	49.6	53.6	51.3	3.87
Donaghadee.....	59.6	48.8	53.2	52.1	3.22
Holyhead.....	60.6	52.8	55.7	53.6	3.35
Liverpool.....	61.2	50.9	54.6	51.9	3.56
Parsonstown.....	61.6	47.5	53.1	51.1	3.49
Valencia.....	61.7	51.5	56.3	53.9	4.87
Roche's Point.....	61.0	51.0	55.4	53.2	4.39
Pembroke.....	60.2	53.1	56.2	53.8	3.89
Seilly.....	61.8	54.8	58.4	56.2	3.69
Jersey.....	65.2	54.9	59.8	57.1	3.51
Hurst Castle.....	64.2	52.2	57.2	55.8	3.35
Dover.....	62.9	53.0	57.9	55.3	2.86
LONDON.....	66.3	49.4	55.9	53.6	2.59
Oxford.....	63.8	49.1	54.2	52.3	2.91
Cambridge.....	65.5	48.1	54.4	52.9	2.48
Yarmouth.....	62.0	51.1	56.2	54.1	3.17

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. to 30.3 in. and more, in an anticyclone lying over France, Germany, and the southern part of our Islands.
 Lowest, 29.9 in. and less, off the northern and northwestern coasts of Scotland.
 Gradients moderate over our Islands, extremely slight and irregular over France.
 Barometer still falling a little over Ireland and England, rising very slightly elsewhere.

TEMPERATURE

Highest, 67° at Dublin, 61° at Birmmgham, 60° at Rotherhithe and Ramsgate, 59° in London.
 Lowest, 44° at Munich, 45° at Paris, 48° at Lyons and Bodo.
 The minima recorded during the night were not nearly so low as those recorded on the previous three or four days.

WIND

S^W and S^W², moderate, over the British Kingdom
 SE⁴ to E⁴ in Norway, E⁴ over the Bay of Biscay.
 NW⁴ to N⁴ over Germany and the East of France.

WEATHER

Showering at our western and northern stations, clear and bright over France; very rainy over South Germany.
 2.21 in. of rain have fallen at Munich during past 24 hours, and considerable quantities in Ireland.

SEA

Moderate at our western stations, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

No great change of weather is indicated at present.

FORECASTS

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

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	} SW ² breezes, moderate, some showers.
1	SCOTLAND EAST	
2	ENGLAND N.E.	} Same as No 5
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	SW ² winds, light or moderate; fair as a whole.

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	} SW ² winds, some showers.
7	ENGLAND N.W.	
8	ENGLAND S.W.	
9	IRELAND NORTH	} S ² and SW ² winds, increasing; rain at times.
10	IRELAND SOUTH	

WARNINGS

The South Cone was hoisted yesterday in districts 6, 7, 9, and 10.

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

YESTERDAY'S 2 P.M. REPORTS.

	THER: WIND								THER: WIND						
	BAR:	D.	W.	D.	F.	WEA.	SEA.		BAR:	D.	W.	D.	F.	WEA.	SEA.
Skudesnaes ...	30.14	57	49	NW	3	c	2	Holyhead ...	30.21	57	53	SW	5	o	4
Sumburgh Head ...	29.99	55	52	SE	3	o	4	Valencia ...	30.21	62	60	SW	4	c	4
Stornoway ...	29.84	58	57	S	6	o	5	Scilly ...	30.30	63	59	SW	2	c	2
Aberdeen ...	30.04	53	51	S	3	o	3	Jersey ...	30.37	64	55	WSW	2	c	2
Shields ...	30.14	61	53	SW	3	o	2	Dungeness ...	30.31	62	53	SW	3	b	1
Ardrossan ...	30.03	55	55	SW	4	p	4	London ...	30.30	65	54	WSW	3	b	3
Malin Head ...	29.99	59	57	SW	5	o	3	Yarmouth ...	30.29	58	51	SE	4	b	3
Mullaghmore ...	30.06	61	57	SW	5	o	3	Rochefort ...	30.39	72	61	ENE	2	b	2
Belmullet ...	30.06	60	59	WSW	3	o	*								

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

Weather fine and bright over England, France, Spain, and Algeria, as well as over Southeastern Europe, the Baltic, and North Sea. Bells and rainy over Italy, Switzerland, southeast of France, and South Germany. Becoming rainy over the eastern and northern parts of our Islands also. Rainfall considerable at the Irish stations later, very heavy over South Germany (2.2 in. at Munich).

Temperature continuing low in most places, but rising in Ireland and Scotland. Morning readings exceeding 70° over Southern Russia, the southeastern parts of the Mediterranean, and some of the Algerian stations, much lower elsewhere. As low as 43° at Le Mans, 44° at York and Loughborough, 46° at Munich, 47° at Lyons, 48° at Paris, 49° in London. Rising to between 60° and 67° over England later, to 70° and more in the south of France, and to 84° at Fribourg, but not exceeding 48° at Munich all day.

Wind mainly anticyclonic over Western Europe, cyclonic in the northwest, north, and southeast;— NW to N over North Germany and the east of France, E and SE over the Bay of Biscay, S and SW over Ireland and Scotland (strong at Malin Head and Stornoway), N over the Gulf of Bothnia. SW winds becoming general over the United Kingdom later.

Barometre highest 30.1 in. to nearly 30.4 in. in an anticyclone of somewhat irregular form covering nearly the whole of Western Europe; lowest 29.5 in. over the White Sea, 29.8 in. and less, in several shallow disturbances lying over Southeastern Europe and Gulf of Genoa, and 29.9 in. and less, over the extreme northwest of our Islands. Falling slightly over the United Kingdom during day but gradients not becoming steep.

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 3rd September.* 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.																		
YESTERDAY EVENING.																		
8 A.M. TO DAY.																		
PAST 24 HOURS.																		
STATIONS.	Barom.	Temp.	Wind.		Weather.	Barometer.	Shade Temp.			Wind.		Weather.	Sea (10 to 12.)	Shade Temp.				
	Reading at 32° F. and Sea Level.	Dry.	Dir.	Force (10 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 (10 to 12.)	Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.																		
Haparanda ...	20.20	49	2	0	bc	20.19	+0.4	56	50	+7	SW	2	bc	57	37	—	—	
Hernösand ...	20.23	52	2	0	0	20.22	0.0	58	50	+7	SW	2	0	63	37	—	—	
Stockholm ...	20.23	51	2	0	bc	20.24	+0.3	51	50	0	2	0	bc	63	45	—	—	
Wisby ...	20.13	54	2	4	bc	20.17	0.0	53	53	-1	NE	4	bc	61	48	—	—	
Bodö ...	20.08	50	2	2	bc	29.98	-1.7	54	48	+6	2	bc	1	54	45	—	—	
Christiansund ...	29.98	56	2	2	c	29.95	-1.3	55	53	+7	2	c	1	59	54	—	—	
Skudesnes ...	20.06	57	2	6	0	20.09	-0.3	58	56	+4	2	0	4	59	53	0.24	—	
Christiania Fjord (Fæder)	20.17	57	2	3	bc	20.17	0.0	59	56	+7	2	0	3	59	50	—	—	
Skagen (The Seaw)	20.19	57	2	1	bc	20.19	+0.2	55	55	+2	2	0	1	63	54	—	—	
Fanö ...	20.22	57	2	4	c	20.18	-0.6	60	58	+5	2	4	c	61	54	—	—	
Sumburgh Head	29.91	54	2	1	c	29.94	+0.8	56	54	+1	2	0	c	1	58	57	—	—
Stornoway ...	29.92	57	2	2	c	29.85	-0.2	58	57	+4	2	0	c	3	60	52	0.04	—
Wick ...	29.95	55	2	1	bc	29.91	+0.1	57	55	-1	2	0	c	1	62	52	0.03	—
Nairn ...	29.94	61	2	1	c	29.90	+0.1	58	56	+1	2	0	c	0	67	49	—	—
Aberdeen ...	29.93	58	2	1	bc	29.95	+0.2	59	56	+1	2	0	bc	2	68	52	0.01	—
Leith ...	29.95	61	2	3	c	29.95	+0.3	63	60	+2	2	0	c	2	66	54	0.01	—
Shields ...	20.04	61	2	2	0	20.03	0.0	58	57	+1	2	0	c	2	67	56	0.31	—
Spurn Head ...	20.13	60	2	2	0	20.13	-0.2	58	57	-1	2	0	c	3	64	55	0.01	—
York ...	20.14	60	2	1	0	20.13	-0.1	59	58	+2	2	0	c	2	63	56	0.19	—
Loughborough	20.17	62	2	2	c	20.18	-0.1	59	57	+3	2	0	c	2	64	55	—	—
ARDROSSAN ...	20.03	58	2	3	d	20.02	+0.5	58	58	+1	2	0	c	3	60	56	0.61	—
Malin Head ...	20.00	59	2	4	bc	29.95	+0.1	58	58	+2	2	0	bc	2	61	55	0.42	—
Mullaghmore ...	20.04	61	2	5	0	20.05	+0.2	60	59	+2	2	0	c	3	63	58	0.56	—
Belmullet ...	20.04	59	2	4	0	20.06	+0.2	59	58	+1	2	0	c	3	60	57	0.47	—
Donaghadee ...	20.05	63	2	2	0	20.07	+0.4	61	60	+1	2	0	c	1	63	59	0.06	—
Liverpool (Bidston)	20.15	59	2	2	0	20.14	+0.2	60	59	0	2	0	c	2	65	58	0.04	—
Holyhead ...	20.14	59	2	4	bc	20.14	+0.3	59	58	+1	2	0	bc	4	63	56	0.05	—
Parsonstown ...	20.13	63	2	2	0	20.15	+0.4	59	58	-1	2	0	c	4	67	58	0.02	—
Valencia ...	20.18	61	2	4	bc	20.22	+0.5	59	57	0	2	0	c	4	62	58	0.05	—
Roche's Point ...	20.20	60	2	4	0	20.22	+0.3	60	58	0	2	0	c	4	63	56	—	—
Pembroke (St. Ann's Hd.)	20.23	58	2	3	c	20.24	+0.2	58	58	0	2	0	c	4	60	58	0.01	—
Silly ...	20.27	60	2	3	c	20.29	+0.3	60	59	+2	2	0	c	2	64	52	—	—
Prawle Point ...	20.25	59	2	3	0	20.29	-0.1	58	57	+1	2	0	c	1	61	53	—	—
Jersey (St. Aubin's)	20.30	62	2	3	bc	20.33	-0.1	61	59	+1	2	0	bc	3	66	48	—	—
Hurst Castle ...	20.26	60	2	4	c	20.23	-0.7	60	59	+1	2	0	c	2	64	57	0.01	—
Dungeness ...	20.25	61	2	4	0	20.24	-0.5	61	58	0	2	0	c	2	65	57	—	—
London ...	20.24	58	2	2	bc	20.25	-0.2	57	56	-2	2	0	bc	2	68	52	0.01	—
Oxford ...	20.24	58	2	2	bc	20.23	-0.2	57	57	+1	2	0	bc	2	63	53	0.01	—
Cambridge ...	20.22	59	2	1	0	20.21	-0.3	60	58	+1	2	0	c	2	69	51	—	—
Yarmouth ...	20.19	63	2	1	bc	20.18	-0.6	59	57	+1	2	0	bc	2	65	54	—	—
Cuxhaven ...	20.29	54	2	1	bc	20.26	-0.3	53	52	-1	2	0	bc	2	58	52	—	—
Berlin ...	20.24	54	2	2	bc	20.24	+0.3	51	48	0	2	0	bc	2	61	46	—	—
Wiesbaden ...	20.30	47	2	2	bc	20.30	-0.1	47	45	-5	2	0	bc	2	63	41	—	—
Munich ...	20.28	45	2	4	bc	20.30	+0.8	46	46	+2	2	0	bc	2	46	41	1.26	—
The Helder ...	20.23	59	2	2	c	20.19	-0.6	58	55	+6	2	0	c	2	63	52	0.08	—
BRUSSELS (9 a.m.)	20.29	57	2	4	c	20.28	-0.7	55	50	+2	2	0	c	2	64	47	—	—
Cape Gris Nez	20.30	57	2	1	bc	20.32	-0.5	47	46	+2	2	0	bc	4	64	52	0.08	—
Paris ...	20.29	65	2	1	bc	20.26	-0.6	55	53	-2	2	0	bc	2	65	43	—	—
Brest ...	20.29	63	2	2	bc	20.34	-0.1	53	51	+1	2	0	bc	1	68	52	—	—
Lorient ...	20.31	63	2	2	bc	20.34	-0.1	53	51	+1	2	0	bc	1	68	52	—	—
ROCHEFORT ...	20.23	67	2	3	bc	20.35	-0.3	55	52	+3	2	0	bc	2	75	46	—	—
Belfort ...	20.20	52	2	1	bc	20.26	+0.1	49	44	-2	2	0	bc	2	61	39	—	—
Lyons ...	20.22	58	2	3	bc	20.26	+0.1	49	45	+1	2	0	bc	2	62	46	—	—
Nice ...	29.99	64	2	3	bc	20.03	+0.5	62	53	+4	2	0	bc	1	73	54	—	—
Perpignan ...	20.12	66	2	3	bc	20.15	-0.4	63	53	+4	2	0	bc	1	72	51	—	—
Biarritz ...	20.19	67	2	3	bc	20.21	-0.5	52	49	+3	2	0	bc	1	72	48	—	—
CORUNNA ...	29.97	76	2	4	bc	20.02	+0.1	69	58	+2	2	0	bc	2	82	49	—	—
Lisbon ...	29.97	76	2	4	bc	20.02	+0.1	69	58	+2	2	0	bc	2	82	49	—	—

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

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WEATHER CHARTS

for 8 a.m. on

Wednesday, 3rd September,

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;
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○ = dead calm.

SEA DISTURBANCES—Where considerable, is shown thus:

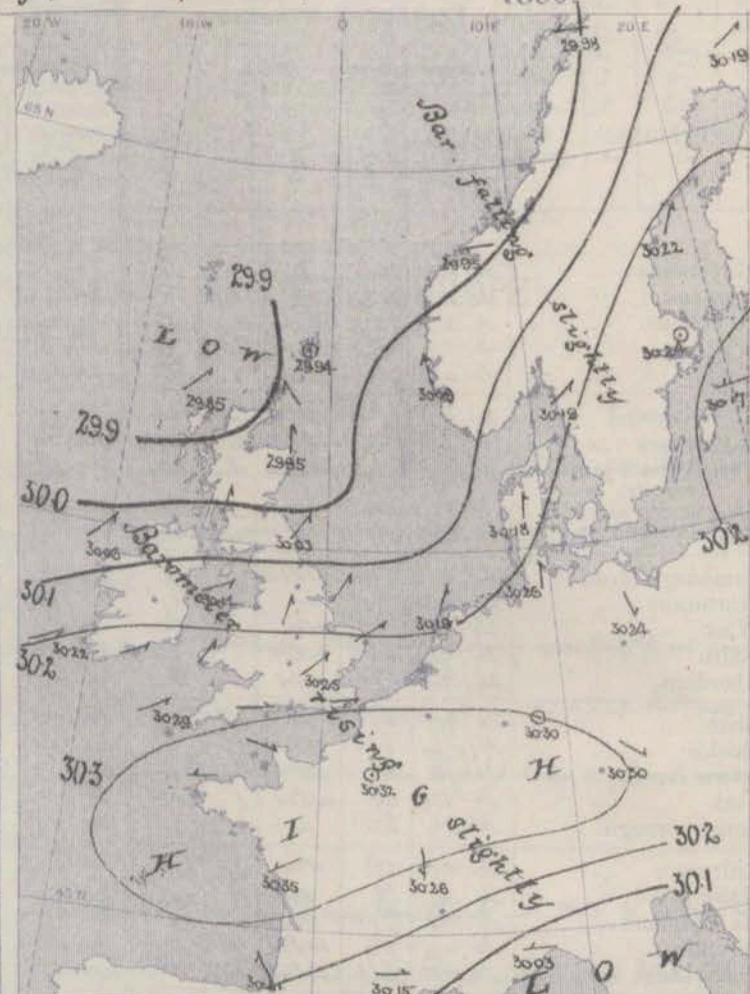
■ = Rough. ■ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

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Sumburgh Head	29.766
Stornoway	29.780
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Ardrossan	29.859
Donaghadee	29.869
Holyhead	29.804
Liverpool	29.889
Parsonstown	29.904
Valencia	29.917
Roche's Point	29.915
Pembroke	29.918
Seilly	29.945
Jersey	29.955
Hurst Castle	29.960
Dover	29.941
LONDON	29.945
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TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

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WEATHER is shown by Letters of the Beaufort Scale.

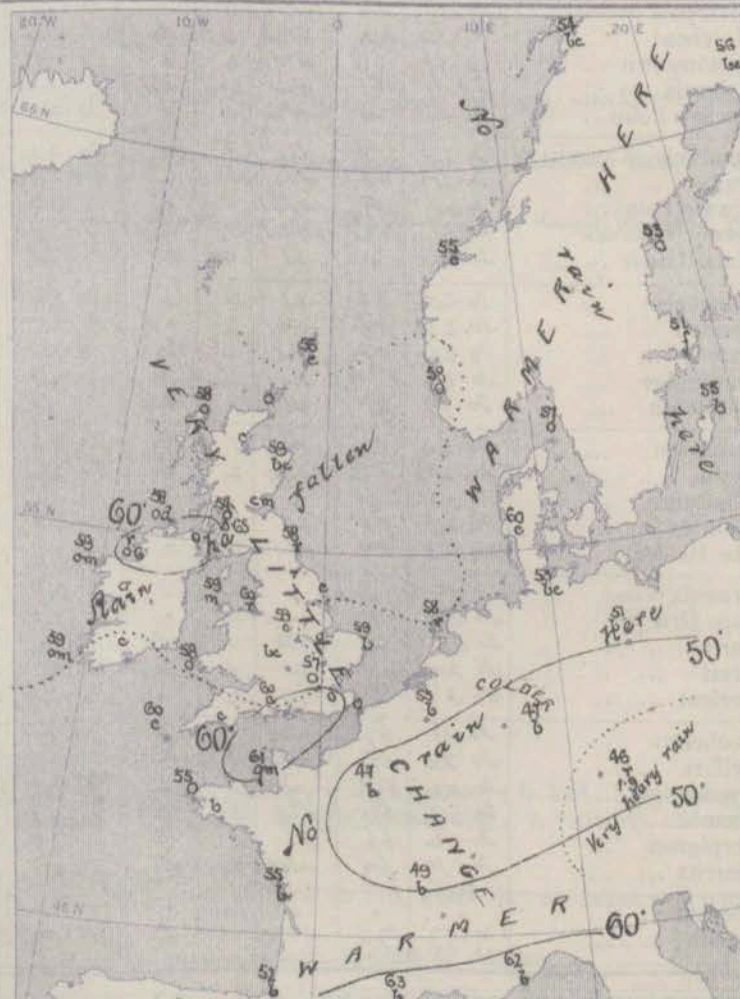
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL

(For the month of September.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Dry.	Wet.	
Sumburgh Head	55.2	40.3	50.9	49.2	3.46
Stornoway	56.1	45.7	51.1	49.8	4.13
Wick	57.6	45.5	51.8	49.9	2.66
Nairn	59.0	46.8	51.2	48.8	2.73
Aberdeen	59.2	46.7	52.1	49.8	3.22
Leith	62.2	47.4	53.2	50.8	2.47
Shields	59.9	40.3	53.1	51.1	2.58
York	63.3	47.3	52.8	51.0	2.08
Loughborough	65.0	47.9	54.3	52.4	3.06
Ardrossan	59.7	49.6	53.5	51.3	3.87
Donaghadee	59.6	48.8	53.3	52.1	3.22
Holyhead	60.6	52.8	55.7	53.5	3.35
Liverpool	61.2	50.9	54.5	51.9	3.56
Parsonstown	61.6	47.3	53.1	51.1	3.49
Valencia	61.7	51.5	56.3	53.9	4.87
Roche's Point	61.9	51.0	56.4	53.2	4.39
Pembroke	60.2	55.1	56.2	53.8	3.89
Seilly	61.8	54.8	56.4	56.2	3.69
Jersey	63.2	54.5	59.8	57.1	3.51
Hurst Castle	64.2	52.2	57.2	55.8	3.35
Dover	62.9	55.0	57.9	55.3	2.86
LONDON	60.3	49.4	55.0	53.6	2.39
Oxford	63.8	49.1	54.2	53.3	2.91
Cambridge	65.5	45.1	54.4	52.9	2.48
Yarmouth	62.0	51.1	56.2	54.4	3.47

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, 30.3 ins. and more, in an anticyclone lying over France and the English Channel.
Lowest, 29.9 ins. and less, off our extreme northwest coast.
Gradient, slight generally.
Barometer falling at some eastern stations, but rising a little in most other places.

TEMPERATURE

Highest, 63° at Lisbon, 63° at Perpignan, 62° at Nice, and 61° at Angoulême and Jersey.
Lowest, 46° at Munich, 47° at Paris and Wiesbaden, 48° at Lyons, and 51° at Stockholm and Berlin.

WIND

Light from the E. in Norway, and over the Bay of Biscay, calm over the central parts of France, but light breeze from N. and SW. are reported in Sweden and Denmark and also over the United Kingdom.

WEATHER

Fine and bright over France and Germany, dull at most of the northern and western stations, and rainy in the north of England, fair but cloudy elsewhere. During the past 24 hours rain has fallen in nearly all parts of the British Isles, here 1.4 at Anderson, Malin Head, and Mullaghmore. Munich again reports very heavy rain, 1.80 ins. having been measured this morning.

SEA

Moderate to smooth generally.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

No important change of weather is indicated at present.

FORECASTS

For the 24 hours ending at NOON on 4TH SEPT^R 1890.

DISTRICTS.

FORECASTS.

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

SW^{ly} and W^{ly} winds, light and moderate; fair generally, but perhaps some showers.
 SW^{ly} and W^{ly} winds, light; fair generally but slight rain locally.

DISTRICTS.

FORECASTS.

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

SW^{ly} and W^{ly} winds, light; cloudy, some rain locally.

Same as N^{os} 3 to 5

Same as N^{os} 0 to 2

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 ...	30.10	56	54	SE	6	0	4	Holyhead ...	30.04	61	59	SW	4	omg	4
Sumburgh Head ...	29.85	56	55	W	1	0	3	Valencia ...	30.19	62	61	SW	4	om	4
Stornoway ...	29.92	59	55	W	3	C	3	Scilly ...	30.27	64	62	W	3	C	2
Aberdeen ...	29.92	60	59	W	2	C	3	Jersey ...	30.34	64	56	W	3	om	3
Shields ...	30.03	65	60	W	3	C	2	Dungeness ...	30.26	64	55	W	4	bc	3
Ardrossan ...	30.02	59	59	W	2	0	2	London ...	30.24	66	55	W	2	0	*
Mulin Head ...	30.01	58	57	W	2	odf	1	Yarmouth ...	30.21	65	58	W	3	bc	2
Mullaghmore ...	30.04	62	60	SW	5	0	3	Rocheport ...	30.36	76	61	NE	3	bc	2
Belmullet ...	30.05	60	59	W	3	0	*								

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

Weather fine and bright over France, Spain, at most of the Mediterranean stations, as well as in some parts of Scandinavia. Dull and rainy in the west of Ireland, and also over Austria and Bavaria. Fair but cloudy over England and Scotland. Rain falling in most parts of the United Kingdom later, heavily at some of the Irish stations and also at Munich.

Temperature risen decidedly over the United Kingdom, but no great change reported elsewhere. Highest morning reading 80° at Kinsale, exceeding 70° over Southern Russia and also at San Fernando and Constantinople, and exceeding 60° over the Mediterranean. As low as 44° at Munich, 48° at Paris, 46° at Munster and Le Mans. Rising to between 60° and 63° over Great Britain later, to 70° at Rochefort, and to 82° at Lisbon, but not exceeding 46° at Munich all day.

Wind light or moderate from SW over the United Kingdom, SE to E in Norway, E over the Bay of Biscay, Spain, and Algeria, but N and NW breezes reported in Austria and Germany. Over Italy and the southern parts of Russia light variable breezes prevailed. Wind becoming more W over the United Kingdom later.

Barometer highest, 30.2 in. to 30.3 in. and more, in an anticyclone lying over France, Germany, and the southern parts of our Islands, 30.2 in. and more, in another anticyclone covering northwestern Russia and the Baltic; lowest 29.8 in. and less, in a large shallow disturbance lying over Southeastern Europe and 29.9 in. and less, off the northwest coasts of Scotland. Barometer rising slightly over the United Kingdom during day, but falling a little over France and 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 *Thursday, 4th September, 1890.*
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		BAROM. Reading at 32° F. and Sea Level.	TEMP. Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea. (0 to 12.)	SHADE TEMP.				
				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.)		Weather.	Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.	Haparanda ...	30.16	51	2	0	b	30.16	-0.03	55	51	-1	SW	2	0	*	59	39	-	
	Hernösand ...	30.18	54	S	4	c	29.99	-0.23	55	53	+2	SSW	4	0	*	61	48	-	
	Stockholm ...	30.26	52	"	3	0	30.27	+0.01	56	53	+5	2	0	0	*	64	43	-	
	Wisby ...	30.19	50	NNE	4	b	30.18	+0.01	55	54	0	NNE	4	0	*	61	48	0.04	
	Bodö ...	30.01	54	2	0	0	29.96	-0.05	57	51	+3	E	2	0	1	59	48	-	
	Christiansund	29.99	56	ESE	2	c	29.96	-0.03	57	55	+2	SSW	1	0	2	59	55	0.20	
	Skudesnaes ...	30.08	58	SSE	6	0	30.08	-0.01	58	57	0	SSE	6	0	4	?	55	0.04	
	Christiania Fjord (Færder)	30.19	59	SSE	4	0	30.16	-0.03	58	57	-1	SSE	4	0	3	61	57	-	
	Skagen (The Seaw)	30.19	58	SW	3	b	30.19	0.00	58	55	+1	SW	2	0	2	63	55	-	
	Fanö ...	30.21	56	SSE	2	b	30.19	+0.02	56	56	-4	SSE	4	0	*	61	54	-	
BRITISH ISLANDS.	Sumburgh Head	29.87	55	SSW	1	0	29.94	-0.07	54	54	-2	NNW	3	0	3	58	52	0.21	
	Stornoway ...	29.86	61	W	4	r	30.05	+0.20	55	52	-3	SW	2	0	3	61	52	0.02	
	Wick ...	29.90	61	S	2	0	30.08	+0.19	58	54	+1	NW	2	0	1	62	54	0.10	
	Nairn ...	29.91	62	SW	2	c	30.06	+0.15	57	55	-1	2	0	0	0	69	54	0.05	
	Aberdeen ...	29.95	65	W	1	op	30.08	+0.13	61	57	+2	NW	1	0	1	74	53	0.11	
	Leith ...	30.02	63	W	3	c	30.11	+0.12	61	59	-2	W	1	0	*	68	58	-	
	Shields ...	30.07	64	SW	2	0	30.14	+0.11	61	59	+3	W	2	0	2	69	54	0.11	
	Spurn Head ...	30.14	61	NW	3	0	30.20	+0.07	60	59	+2	NW	3	0	3	64	57	0.05	
	York ...	30.18	63	W	2	0	30.24	+0.11	60	59	+1	NW	1	0	*	66	58	0.24	
	Loughborough	30.18	65	W	2	0	30.27	+0.09	60	59	+1	NW	2	0	*	68	58	0.04	
GERMANY & HOLLAND.	Ardrossan ...	30.06	59	SW	3	pd	30.14	+0.12	58	58	0	SW	3	0	2	61	57	0.36	
	Malin Head ...	30.02	59	SW	5	OT	30.13	+0.14	57	57	-1	W	3	0	2	60	57	0.62	
	Mullaghmore ...	30.09	60	SW	6	r	30.15	+0.10	60	59	0	SW	5	0	3	64	59	0.34	
	Belmullet ...	30.09	59	NW	5	om	30.17	+0.11	59	58	0	W	2	0	*	60	58	0.42	
	Donaghadee ...	30.09	66	NW	4	b	30.18	+0.11	61	61	0	NW	3	0	1	70	60	0.13	
	Liverpool (Bidston)	30.17	62	NW	2	0	30.25	+0.11	60	59	0	SW	2	0	2	63	58	0.12	
	Holyhead ...	30.19	59	SW	3	cm	30.26	+0.12	58	57	-1	SW	3	0	3	63	57	0.05	
	Parsonstown ...	30.19	65	NW	1	0	30.24	+0.09	59	58	0	SW	2	0	*	65	57	0.30	
	Valencia ...	30.26	61	W	4	c	30.30	+0.08	59	58	0	SW	4	0	4	63	58	0.08	
	Roche's Point...	30.27	63	NW	3	b	30.32	+0.10	57	57	-3	NW	3	0	3	65	55	0.04	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.27	58	NW	3	c	30.33	+0.09	58	57	0	SW	3	0	3	60	56	-	
	Scilly ...	30.35	60	W	1	c	30.37	+0.08	60	59	0	NW	1	0	2	64	54	-	
	Prawle Point ...	30.31	60	NW	2	c	30.37	+0.08	58	57	0	NW	2	0	1	65	56	-	
	Jersey (St. Aubin's)	30.34	62	W	3	c	30.39	+0.06	60	57	-1	NW	3	0	3	65	58	-	
	Hurst Castle ...	30.28	62	W	8	c	30.34	+0.11	60	59	0	NW	2	0	2	64	57	-	
	Dungeness ...	30.22	63	W	4	c	30.29	+0.05	64	61	+3	NNW	2	0	1	67	56	0.02	
	London ...	30.22	64	SW	2	0	30.30	+0.05	59	57	+2	NNW	2	0	*	67	55	-	
	Oxford ...	30.24	60	NW	3	0	30.31	+0.08	58	57	-1	NW	1	0	*	66	53	-	
	Cambridge ...	30.20	63	NW	1	c	30.26	+0.05	62	60	+2	W	1	0	*	69	55	0.03	
	Yarmouth ...	30.17	63	NNW	2	r	30.23	+0.05	62	60	+3	NNW	3	0	2	65	57	0.11	
PENIN- SULA.	Cuxhaven ...	30.22	57	SSW	2	b	30.26	0.00	55	54	+2	S	2	0	*	65	?	-	
	Berlin ...	30.22	57	N	4	b	30.23	-0.01	54	52	+3	NNW	3	0	*	63	48	-	
	Wiesbaden ...	*	*	*	*	*	30.30	0.00	55	53	+2	2	0	*	63	?	-		
	Munich ...	30.33	44	SW	3	r	30.32	+0.02	45	44	-1	NW	3	0	*	48	43	0.35	
	The Helder ...	30.18	58	SW	2	r	30.19	0.00	60	59	+2	NW	1	0	1	61	55	0.35	
	Brussels (9 a.m.)	*	*	*	*	*	30.26	-0.02	57	57	+2	SSW	1	0	*	66	55	0.08	
	Cape Gris Nez	30.30	59	NW	4	c	30.30	+0.02	60	59	+1	NW	3	0	3	64	57	-	
	Paris ...	30.26	62	N	1	c	30.34	+0.02	56	56	+9	SW	1	0	*	69	?	0.04	
	Brest ...	30.30	62	NW	2	r	30.37	+0.11	56	56	+1	SE	1	0	1	72	48	-	
	Lorient ...	30.32	62	NNW	2	c	30.39	+0.05	52	51	-1	NNE	2	0	2	68	50	-	
FRANCE AND BELGIUM.	Rochefort ...	30.33	66	NW	3	b	30.39	+0.04	56	55	+1	NNE	4	0	1	79	50	-	
	Belfort ...	30.21	53	SE	1	b	30.27	?	50	43	0	E	1	0	*	61	43	-	
	Lyons ...	30.23	59	N	2	b	30.28	+0.02	53	48	+4	N	3	0	*	63	49	-	
	Nice ...	30.03	61	SW	2	b	30.04	+0.01	60	53	-2	E	2	0	1	72	55	-	
	Perpignan ...	30.11	70	NW	3	b	30.17	+0.02	67	56	+4	NW	3	0	*	77	59	-	
	Biarritz ...	30.23	68	NNE	3	b	30.28	+0.07	57	55	+5	2	0	1	72	?	-		
PENIN- SULA.	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Lisbon ...	30.04	75	N	3	b	30.08	+0.06	69	56	0	NNE	3	0	6	79	66	-	

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

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

WEATHER CHARTS

for 8 a.m. on

Thursday, 4th September,

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:—

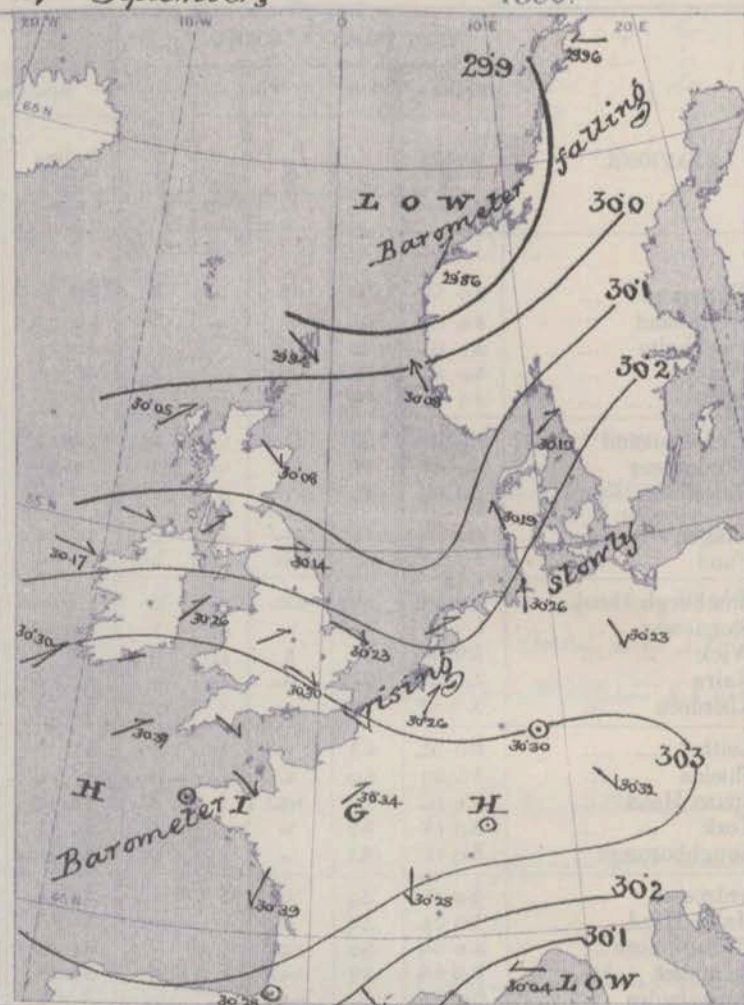
■ = Rough. ■ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.766
Stornoway	29.780
Wick	29.793
Nairn	29.809
Aberdeen	29.819
Leith	29.846
Shields	29.869
York	29.903
Loughborough	29.924
Ardrossan	29.850
Donaghadee	29.869
Holyhead	29.894
Liverpool	29.899
Parsonstown	29.904
Valencia	29.917
Roche's Point	29.915
Pembroke	29.913
Scilly	29.943
Jersey	29.955
Hurst Castle	29.969
Dover	29.941
LONDON	29.945
Oxford	29.935
Cambridge	29.931
Yarmouth	29.916



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.

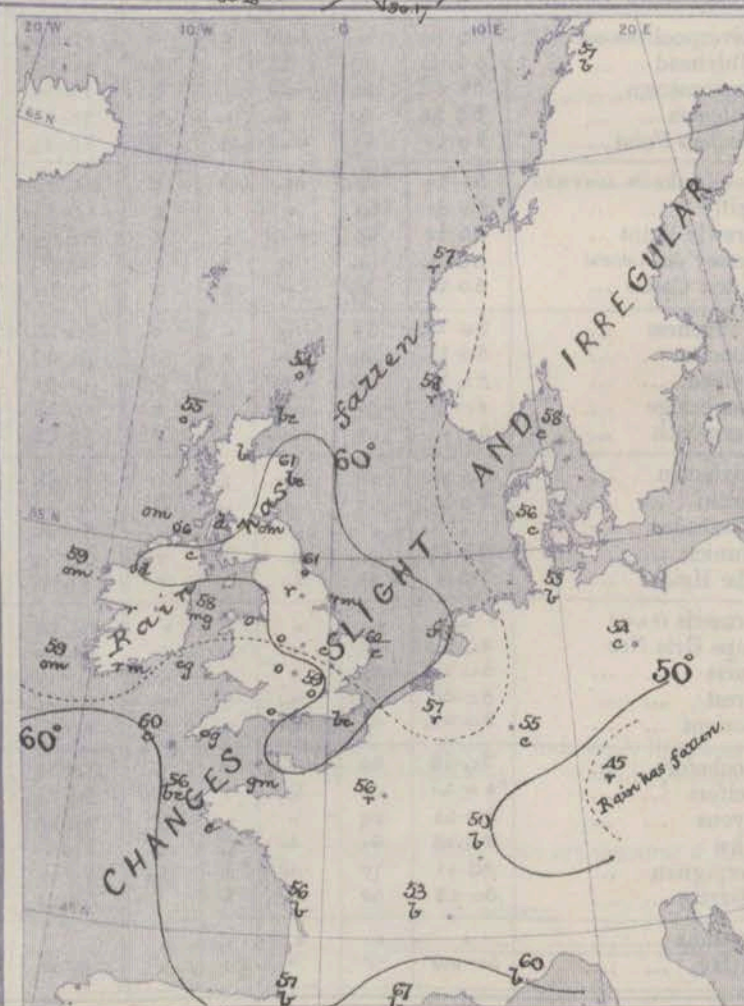
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of September.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Dry.	Wet.	
Sumburgh Head	55.2	46.3	50.9	49.2	3.46
Stornoway	56.1	45.7	51.1	49.8	4.13
Wick	57.6	45.5	51.8	49.9	2.66
Nairn	59.0	46.8	51.2	48.8	2.73
Aberdeen	59.2	46.7	52.1	49.8	3.22
Leith	62.2	47.6	53.2	50.8	2.47
Shields	59.9	49.3	53.1	51.1	2.68
York	63.3	47.3	52.8	51.0	2.98
Loughborough	65.0	47.9	54.3	52.4	3.06
Ardrossan	59.7	49.6	53.5	51.3	3.87
Donaghadee	59.6	48.8	53.3	52.1	3.22
Holyhead	60.6	52.8	55.7	53.5	3.35
Liverpool	61.2	50.9	54.5	51.9	3.56
Parsonstown	61.6	47.5	55.1	51.1	3.49
Valencia	61.7	51.5	56.3	53.9	4.87
Roche's Point	61.0	51.0	55.4	53.2	4.39
Pembroke	60.2	53.1	56.2	53.8	3.89
Scilly	61.8	54.8	58.4	56.2	1.69
Jersey	65.2	54.9	59.8	57.1	3.51
Hurst Castle	64.2	52.2	57.2	55.8	3.55
Dover	62.9	63.0	57.9	55.3	2.86
LONDON	66.3	49.4	55.9	53.6	2.39
Oxford	63.8	49.1	54.2	52.3	2.91
Cambridge	65.5	48.1	54.4	52.9	2.48
Yarmouth	62.0	51.1	56.2	54.4	3.17

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.2 in: to nearly 30.4 in: over France, the Bay of Biscay, the north of Spain, Ireland, and England.
Lowest, 29.9 in: and less, off the west of Norway.

Gradients moderate in the far north, slight elsewhere. Barometers still rising in most places.

TEMPERATURE

Highest, 69° at Birken, 67° at Fiskigman, 64° at Dungeness, 61° at Leith, Aberdeen, and Bangorhead.
Lowest, 45° at Munich, 50° at Belfast, 54° at Sumburgh Head.
In London it is 53° and the air close.

WIND

Light or moderate from SW. on our coast and north-west coast, from S. and SE. in the north-west of Norway.
Light W and NW over England; very light and variable over France.

WEATHER

Fine and bright in the extreme south only; dull elsewhere, with rain in many places including Munich and Paris.
At Munich the fall since yesterday is 0.35 in: but in the north-west of Ireland the fall has been greater.

SEA

Moderate at Valencia, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There is no indication of any important change.

FORECASTS

For the 24 hours ending at NOON on 5th SEPT^r 1890.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	W ² and SW ² breezes, light; some rain.
1	SCOTLAND EAST	W ² airs; dull at times and damp, air close.
2	ENGLAND N.E.	
3	ENGLAND EAST	W ² to NW ² breezes; fair as a whole but damp close air.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	



DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	SW ² and W ² breezes moderate or light; some rain occasionally.
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		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	30.08	62	58	SSW	4	0	4		Holyhead ...	30.19	62	60	W	4	4
Sumburgh Head ...	29.92	54	53	SSW	1	0	2		Valencia ...	30.26	62	61	SSW	5	4
Stornoway ...	29.86	60	58	SW	5	0	5		Scilly ...	30.34	63	61	W	2	2
Aberdeen ...	29.48	72	65	S	2	0	2		Jersey ...	30.34	65	60	W	3	3
Shields ...	30.13	67	62	W	3	0	2		Dungeness ...	30.23	66	61	W	5	3
Ardrossan ...	30.05	59	58	SW	4	0	3		London ...	30.23	67	62	W	3	2
Malin Head ...	30.02	59	59	SW	4	0	2		Yarmouth ...	30.17	65	62	W	2	2
Mullaghmore ...	30.09	64	61	SW	6	0	4		Rochefort ...	30.35	78	64	W	2	2
Belmullet ...	30.08	60	59	W	5	0	*								

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

Weather fine and bright over Southwestern and Southern Europe and on the shore of the Mediterranean, as well as over the greater part of Russia and in many parts of North Germany, cloudy and unsettled elsewhere, rain falling in several parts of the United Kingdom and a great deal at the Austrian and South German stations. Rainfall considerable over the Northwestern parts of Ireland later.

Temperature very low for time of year over Germany, Austria, Switzerland, and the southeast of France, but slightly above the average in the British Islands and the neighbourhood. Morning readings exceeding 70° on the southern shores of the Mediterranean and also in the south of Russia and exceeding 60° in several parts of the United Kingdom, much lower over Central Europe, and as low as 43° at Bern, 46° at Munich and Le Mans, 47° at Paris, and Wiesbaden, 48° at Bayreuth, 49° at Lyons; below 50° over the north of Russia also. Rising to between 60° and 70° over England and the east of Ireland later, to 74° at Aberdeen, 77° at Perpignan, and 79° at Lemberg, but not exceeding 48° at Munich all day.

Wind light to moderate from between S. and W. over the United Kingdom, S. in Sweden, SE. to E. over Norway; very variable elsewhere; mainly N. over North Germany. No important change later.

Barometer highest 30.2 ins. to 30.3 ins. and more, in an anticyclone lying over the Bay of Biscay, France, Western Germany and the south of England and exceeding 30.2 ins. in well marked band stretching thence in a northeasterly direction across the south of Sweden and the Gulf of Bothnia to Finland. Lowest 29.9 ins. and less, over the northwest of Scotland, 30.0 ins. and less, off the west of Norway; 29.9 ins. and less, in a large depression over Southeastern Europe, and about 30.0 ins. in a small "secondary" lying over the Mediterranean. The low pressure area off the northwest of Scotland moving northwards later, and barometer rising slowly over Northwestern Europe.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for *Friday, 5th September, 1890.*
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea. (0 to 5.)	SHADE TEMP.				
		Reading at 32° F. and Sea Level.	Dry.	Dirce.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirce.	Force. (0 to 12.)		Max.	Min.	Amount of Rainfall.		
SCANDINAVIA.	Haparanda ...	30.10	53	Z	0	0	30.03	-1.3	59	56	+4	SW	2	0	*	?	48		
	Hernösand ...	30.10	57	SSW	4	0	30.09	?	61	59	+6	W	4	0	*	66	45		
	Stockholm ...	30.24	51	Z	0	6	30.24	-0.3	54	51	-2	S	2	0	*	61	43		
	Wisby ...	30.21	51	NNE	4	6	30.24	+0.6	56	53	+1	SE	4	6	*	61	?		
	Bodö ...	29.67	57	E	2	0	29.93	-0.3	53	49	-4	S	2	0	1	63	50	0.20	
	Christiansund	30.01	53	W	6	+	30.13	+2.7	55	51	-2	W	6	0	4	59	52	0.43	
	Skudesnaes ...	?	55	W	2	0	30.28	+2.0	57	53	-1	ESE	1	0	2	59	54		
	Christiania Fjord (Færdier)	30.17	59	S	2	0	30.17	+0.1	60	58	+2	SW	3	0	2	?	?		
	Skagen (The Seaw)	30.19	59	SW	1	0	30.20	+0.1	59	58	+1	W	1	0	1	63	57		
	Fanö ...	30.22	59	Z	0	0	30.25	+0.6	57	57	+1	NW	2	0	*	61	55	0.04	
BRITISH ISLANDS.	Sumburgh Head	30.12	54	W	2	0	30.19	+2.5	54	51	0	W	2	0	3	57	51		
	Stornoway ...	30.19	57	W	3	0	30.20	+1.5	56	54	+1	S	4	6c	4	59	50		
	Wick ...	30.20	55	NW	1	c	30.25	+1.7	56	52	-2	NW	2	0	1	64	49		
	Nairn ...	30.19	58	E	1	c	30.25	+1.9	56	52	-1	Z	0	0	1	67	47		
	Aberdeen ...	30.23	56	SE	2	bc	30.29	+2.1	55	52	-6	NW	1	0	1	67	53		
	Leith ...	30.19	65	W	2	bc	30.28	+1.7	58	55	-3	W	1	cm	*	69	50		
	Shields ...	30.23	64	SW	2	c	30.32	+1.8	56	55	-5	Z	0	0	2	65	55	0.02	
	Spurn Head ...	30.26	62	WNW	3	c	30.32	+1.2	61	60	+1	W	2	0m	2	64	58	0.09	
	York ...	30.28	62	W	1	c	30.32	+0.8	62	60	+2	W	1	0	*	66	59	0.15	
	Loughborough	30.30	67	WNW	2	0	30.38	+1.1	60	59	0	SE	1	cm	*	73	55	0.01	
GERMANY & HOLLAND.	Ardrossan ...	30.24	60	Z	0	c	30.30	+1.6	57	55	-1	W	2	c	1	61	55		
	Malin Head ...	30.25	58	W	1	0	30.29	+1.6	55	53	-2	S	3	0	2	60	51	0.01	
	Mullaghmore ...	30.28	59	W	3	cm	30.30	+1.5	56	55	-4	ESE	3	0m	3	62	49	0.01	
	Belmullet ...	30.29	58	NW	2	bc	30.32	+1.1	59	59	0	SW	2	0r	*	62	52	0.09	
	Donaghadee ...	30.29	57	NE	2	+	30.33	+1.5	56	56	-5	SE	1	0	0	65	55	0.07	
	Liverpool (Bidston)	30.30	62	W	2	0	30.36	+1.1	61	60	+1	SW	1	0	2	68	59	0.02	
	Holyhead ...	30.31	60	SW	3	ogm	30.36	+1.0	61	61	+3	Z	0	ogm	0	65	58	0.04	
	Parsonstown ...	30.29	62	Z	0	0	30.33	+0.9	63	62	+4	Z	0	0	*	63	58	0.04	
	Valencia ...	30.34	60	SW	2	0dm	30.38	+0.8	61	60	+2	SSW	1	0m	1	61	58	0.29	
	Roche's Point...	30.35	59	NW	2	0	30.37	+0.5	59	59	+2	SE	1	rm	2	61	56	0.16	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.37	58	NW	2	c	30.39	+0.6	58	58	0	S	1	0	2	60	56	0.01	
	Scilly ...	30.40	60	W	1	bc	30.40	+0.3	59	59	-1	W	2	0	3	63	55		
	Prawle Point ...	30.39	59	NW	2	bc	30.40	+0.3	60	58	+2	NW	1	0	0	60	58		
	Jersey (St. Aubin's)	30.40	61	WNW	3	ogm	30.40	+0.1	62	59	+2	NW	3	bcnw	3	62	52		
	Hurst Castle ...	30.35	67	WNW	2	0	30.39	+0.5	59	57	-1	N	1	0	0	69	53		
	Dungeness ...	30.30	65	NW	2	c	30.34	+0.5	64	61	0	Z	0	0	0	68	56		
	London ...	30.30	67	WNW	2	bc	30.37	+0.7	59	59	0	SW	1	0	*	71	53		
	Oxford ...	30.35	60	W	1	0	30.39	+0.8	55	55	-3	W	1	0	*	73	48		
	Cambridge ...	30.31	66	W	1	0	30.37	+1.1	61	59	-1	WNW	1	0	*	70	53		
	Yarmouth ...	30.27	63	WNW	2	0m	30.34	+1.1	62	60	0	NW	1	0m	2	64	58	0.21	
GERMANY & HOLLAND.	Cuxhaven ...	30.30	62	SW	2	0	30.30	+0.4	62	61	+7	SW	1	0	*	66	54		
	Berlin ...	30.27	60	N	2	0	30.32	+0.9	52	50	-2	NE	2	0	*	66	48		
	Wiesbaden ...	*	*	*	*	*	30.32	+0.2	56	54	+1	Z	0	0	*	66	50		
	Munich ...	30.37	46	SW	3	+	30.36	+0.4	47	47	+2	W	3	0	*	48	45	0.51	
	The Helder ...	30.26	60	W	1	0	30.31	+1.2	60	59	0	NW	1	0	1	63	59		
	Brussels (8 a.m.)	*	*	*	*	*	30.34	+0.8	59	59	+2	ESE	1	0	*	63	57	0.24	
	Cape Gris Nez	30.33	61	W	2	m	?	?	61	60	+1	NW	2	0	2	66	57	0.04	
	Paris ...	30.34	63	WNW	2	0	30.35	+0.1	59	59	+3	W	2	0	*	65	?	0.08	
	Brest ...	30.40	60	N	2	0	30.38	+0.1	56	55	0	E	3	0	3	68	52		
	Lorient ...	30.38	63	N	3	bc	30.39	-0.0	56	55	+1	NNE	2	0	2	66	50		
FRANCE AND BELGIUM.	Rochefort ...	30.35	68	N	3	bc	30.39	0.0	60	55	+4	NNE	4	0	*	77	54		
	Belfort ...	30.23	52	SE	1	0	30.27	0.0	50	43	0	SE	2	0	*	66	43		
	Lyons ...	30.28	59	N	2	0	30.25	-0.3	57	51	+4	WNW	2	0	*	64	52		
	Nice ...	30.03	66	W	2	0	30.06	+0.2	64	54	+4	E	2	0	1	75	57		
	Perpignan ...	30.16	72	NW	4	0	30.16	-0.1	68	59	+1	NW	3	0	*	77	64		
	Biarritz ...	30.28	68	NNE	5	0	30.29	+0.1	59	56	+2	ESE	2	0	2	72	57		
	Corunna ...	*	*	*	*	*	30.01	-0.7	74	55	+5	NNE	4	0	?	90	?		
	Lisbon ...	30.01	81	NW	5	0	30.01	-0.7	74	55	+5	NNE	4	0	?	90	?		

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, 5th September,

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:

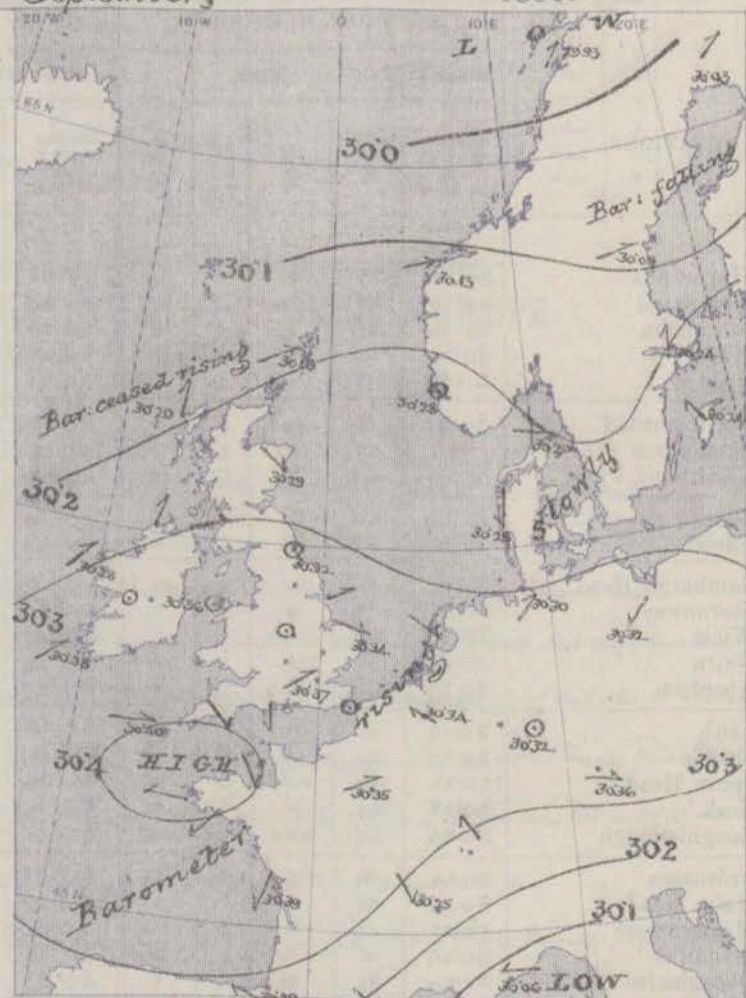
■ = Rough. ■ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumbargh Head	29.766
Stornoway	29.780
Wick	29.793
Nairn	29.809
Aberdeen	29.819
Leith	29.846
Shields	29.869
York	29.904
Loughborough	29.924
Ardrossan	29.850
Donaghadee	29.869
Holyhead	29.894
Liverpool	29.899
Parsonstown	29.904
Valencia	29.917
Roche's Point	29.915
Pembroke	29.913
Sally	29.943
Jersey	29.955
Hurst Castle	29.960
Dover	29.941
LONDON	29.945
Oxford	29.935
Cambridge	29.931
Yarmouth	29.916



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.

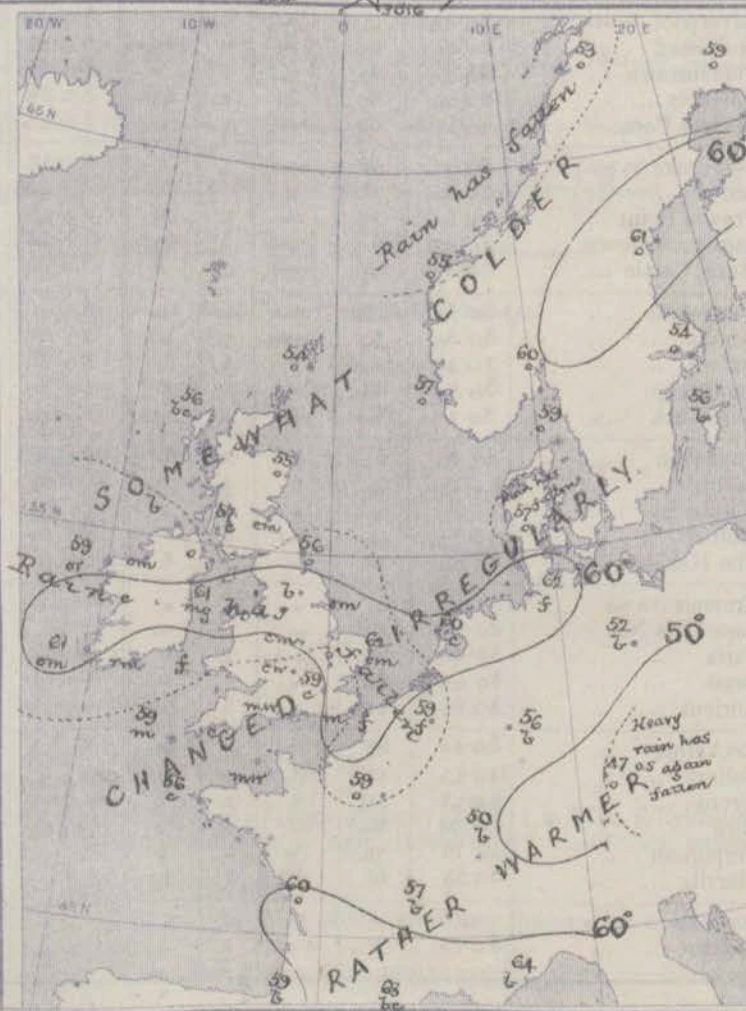
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of September.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Dry.	Wet.	
Sumbargh Head	55.2	40.3	50.9	49.2	3.46
Stornoway	56.1	45.7	51.1	49.8	4.13
Wick	57.6	45.5	51.8	49.9	2.60
Nairn	59.0	46.8	51.2	48.8	2.73
Aberdeen	59.2	46.7	52.1	49.8	3.22
Leith	62.2	47.6	53.2	50.8	2.47
Shields	59.9	49.3	53.1	51.1	2.88
York	63.3	47.3	52.8	51.0	2.98
Loughborough	65.0	47.9	54.3	52.4	3.06
Ardrossan	59.7	49.6	53.0	51.3	3.87
Donaghadee	59.6	48.8	53.3	52.1	3.22
Holyhead	60.6	52.8	55.7	53.5	3.35
Liverpool	61.2	50.9	54.5	51.9	3.56
Parsonstown	61.6	47.5	53.1	51.1	3.49
Valencia	61.7	51.3	56.3	54.9	4.87
Roche's Point	61.9	51.0	55.4	53.2	4.39
Pembroke	60.2	53.1	56.2	53.8	3.89
Sally	61.8	54.8	58.4	56.2	3.09
Jersey	65.2	54.9	59.8	57.1	3.51
Hurst Castle	64.2	52.2	57.2	55.8	3.55
Dover	62.9	53.0	57.9	56.3	2.86
LONDON	66.3	49.4	55.9	53.6	2.59
Oxford	63.8	49.1	54.2	52.3	2.91
Cambridge	65.5	48.1	54.4	52.9	2.48
Yarmouth	62.0	51.1	56.2	54.4	3.17

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. to 30.4 in. in an anticyclone covering nearly the whole of Ireland, England, the Bay of Biscay, France and Germany.
 Lowest, 30.0 in. and less over Lapland, 30.1 in. and less, over the Gulf of Genoa.
 Gradients slight except over the southern Department of France.
 Barometer inclined to fall on our northwestern coasts, and to rise over England, France and Germany.

TEMPERATURE

Highest, 68° at Perpignan, 64° at Nice, 63° at Pau, 62° at York, and 61° as far north as Hornsund.
 Lowest, 47° at Munich, 52° at Berlin, 53° at Poznań, 54° at Hamburg, Meck. In London, Paris, and Brussels the readings were 59°.
 The maxima recorded over England yesterday ranged from 70° to 73° in the shade.

WIND

Light and variable; mainly NE³ over the Bay of Biscay, and S² to SW² at the extreme northwestern and northern stations.

WEATHER

Fine and bright over Spain and the south of France, cloudy in most other places, foggy or misty in the southwest, raining in several parts of Ireland.
 Rain fell yesterday over Ireland and all but the southern and southwestern parts of England, but the amount collected was not large.

SEA

Very little disturbed.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There is no indication of any great change.

FORECASTS

For the 24 hours ending at NOON on 6th SEPT^r 1890.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	S ² and SW ² winds, dull, rain at times
1	SCOTLAND EAST	
2	ENGLAND N.E.	Same as 7 th 5
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	Very Variable light winds; fair as a whole, close, misty at times.

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	SW ² breezes, moderate; some rain.
7	ENGLAND N.W.	
8	ENGLAND S.W.	Same as 7 th 5
9	IRELAND NORTH	S ² and SW ² breezes; dull, rain at times.
10	IRELAND SOUTH	
WARNINGS		NONE ISSUED

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND		WEA.	SEA		BAR.	THER.		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	30.10	58	50	SSW	8	o f	5		Holyhead ...	30.31	62	60	SW	3	c
Sumburgh Head ...	30.06	56	53	WNW	3	o	3		Valencia ...	30.34	60	60	SW	4	rm
Stornoway ...	30.14	59	53	W	3	c	3		Scilly ...	30.40	63	61	W	1	c
Aberdeen ...	30.17	63	58	SE	3	bc	2		Jersey ...	30.41	62	58	WNW	3	o
Shields ...	30.20	65	62	NW	1	o	2		Dungeness ...	30.30	64	62	NW	3	r
Ardrossan ...	30.22	62	59	NW	1	o	0		London ...	30.31	68	62	W	2	o
Malin Head ...	30.24	59	58	W	1	o	2		Yarmouth ...	30.36	62	61	NW	2	rgm
Mullaghmore ...	30.24	60	59	WNW	4	om	3		Rochefort ...	30.43	71	64	WNW	2	o
Belmullet ...	30.26	60	59	WNW	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 southern parts of France, also over Russia, Finland and the Baltic, cloudy elsewhere. Dull and close over the British Islands, with rain in several places, very dull, rainy and unsettled over Austria and South Germany. Rain falling later over Ireland, the greater part of England, the northeast of France and the north of Norway, but amounts reported not large. Further fall of half an inch at Munich [making more than 5 in. since commencement of month.]

Temperature still very low over Central Europe, and especially over South Germany. Morning readings as low as (1) 45° at Munich, 48° at Vienna, 50° at Prague and Brest; (2) 45° at Archangel, 48° at Uleaborg, 50° at St. Petersburg; as high as 70° and more in the south of Russia and the southern shores of the Mediterranean, and exceeding 60° in several parts of the British Islands. Rising later to between 67° and 73° over the inland parts of Great Britain, and to between 70° and 77° in the southern and southwestern parts of France.

Winds light to moderate from SW. over Ireland and the coast of Scotland, W. to NW. over England and the east of Scotland, S. and SE. on the eastern shores of the North Sea and in Norway. N. breezes prevalent over the Baltic Provinces and North Germany, and NW. in Austria; very variable light breezes elsewhere. Becoming lighter and more variable at the British and Irish stations later.

Barometer, highest 30.2 in. to 30.4 in. in a large anticyclone of irregular form covering the greater part of Ireland, England, Bay of Biscay, France, and Germany. Exceeding 30.2 in. over some parts of the Baltic, Finland, and the north of Russia. Lowest 29.9 in. and less, in large shallow disturbances lying (1) off the Norwegian coast and (2) over Southern Russia, the Black Sea, and Hungary; and rather below 30.0 in. in a third system lying over Sicily and the neighbouring parts of the Mediterranean. Rising over Northwestern Europe all day, and readings becoming still more uniform.

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, 6th September,* 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 ...	29.96	SW	2	c	29.83	- 2.0	55	52	- 4	SW	4	b	*	59	50	0.12	
	Hernösand ...	30.12	SW	0	b	29.84	- 2.5	58	55	- 3	S	2	c	*	66	50	0.08	
	Stockholm ...	30.18	SW	0	0	30.00	- 2.4	59	57	+ 5	SSW	2	c	*	66	48	-	
	Wisby ...	30.21	SW	4	0	30.10	- 1.4	60	58	+ 4	WSW	4	c	*	63	46	-	
	Bodö ...	29.92	SW	4	r	29.69	- 2.4	51	50	- 2	SSW	2	r	1	54	48	0.24	
	Christiansund ...	30.02	SW	3	c	29.89	- 2.4	54	50	- 1	WSW	8	r	5	59	52	0.16	
	Skudesnaes ...	30.22	WSW	1	0	30.17	- 1.1	58	54	+ 1	WSW	6	c	3	66	55	0.08	
	Christiania Fjord (Pander)	30.13	SSW	3	0	29.99	- 1.8	58	54	- 2	WSW	5	b	4	?	55	-	
	Skagen (The Scaw)	30.15	WSW	3	c	30.05	- 1.5	59	55	0	WSW	6	0	3	64	54	-	
	Fanö ...	30.29	W	3	0	30.25	- 0.0	57	56	0	WSW	4	c	*	63	52	-	
BRITISH ISLANDS.	Sumburgh Head	30.11	WSW	3	r	30.17	- 0.2	53	50	- 1	WSW	3	0	3	58	51	0.04	
	Stornoway ...	30.18	SW	4	0	30.32	+ 1.2	56	54	0	SW	3	b	3	61	47	0.02	
	Wick ...	30.20	SW	1	0	30.32	+ 0.7	57	54	+ 1	WSW	2	b	1	61	47	-	
	Nairn ...	30.19	W	1	b	30.34	+ 0.9	53	50	- 3	SW	1	b	1	67	49	-	
	Aberdeen ...	30.21	S	1	b	30.36	+ 0.7	55	51	0	W	1	b	1	63	49	-	
	Leith ...	30.24	W	1	b	30.35	+ 0.7	61	56	+ 3	W	2	b	*	70	53	-	
	Shields ...	30.28	WSW	1	b	30.35	+ 0.3	63	60	+ 7	WSW	2	b	2	66	54	-	
	Spurn Head ...	30.29	SE	1	b	30.35	+ 0.3	61	59	0	W	2	b	1	67	55	-	
	York ...	30.30	W	1	b	30.36	+ 0.4	61	60	- 1	W	1	0	*	74	56	-	
	Loughborough	30.32	WSW	1	b	30.38	- 0.0	64	62	+ 4	WSW	2	c	*	78	55	-	
GERMANY & HOLLAND.	Ardrossan ...	30.27	W	1	a	30.40	+ 1.0	57	54	0	WSW	2	b	1	62	53	0.02	
	Malin Head ...	30.25	WSW	4	of	30.44	+ 1.5	53	52	- 2	WSW	2	0	2	61	53	0.12	
	Mullaghmore ...	30.31	W	4	a	30.45	+ 1.5	56	55	0	W	0	0	2	64	54	0.05	
	Belmullet ...	30.34	WSW	2	0	30.45	+ 1.7	55	55	- 4	ESE	1	of	*	61	52	0.05	
	Donaghadee ...	30.28	SSW	1	0	30.45	+ 1.2	57	56	+ 1	NE	3	c	1	65	55	0.02	
	Liverpool (Bidston)	30.33	WSW	1	c	30.42	+ 0.6	59	58	- 2	WSW	1	r	2	63	59	0.11	
	Holyhead ...	30.34	SW	2	og	30.42	+ 0.6	58	57	- 3	W	3	og	2	65	57	0.03	
	Parsonstown ...	30.34	SW	2	0	30.44	+ 1.1	58	57	- 5	W	0	og	*	64	57	0.02	
	Valencia ...	30.40	WSW	1	om	30.42	+ 0.4	58	58	- 3	W	0	of	1	62	54	0.04	
	Roche's Point...	30.35	SW	1	cpt	30.43	+ 0.6	59	59	0	W	1	rm	1	66	55	0.05	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.38	W	1	f	30.42	+ 0.3	61	61	+ 3	W	1	f	1	61	58	0.01	
	Scilly ...	30.39	W	2	f	30.39	- 0.1	60	60	+ 1	ENE	1	f	3	63	55	-	
	Prawle Point ...	30.38	WSW	1	c	30.40	- 0.0	62	61	+ 2	W	0	of	0	68	58	-	
	Jersey (St. Aubin's)	30.38	WSW	3	b	30.40	- 0.0	60	59	- 2	WSW	2	om	2	66	53	-	
	Hurst Castle ...	30.36	WSW	2	b	30.40	+ 0.1	59	58	0	W	0	m	0	71	52	-	
	Dungeness ...	30.33	W	0	m	30.36	+ 0.2	63	60	- 1	W	0	m	0	70	55	-	
	London ...	30.33	W	1	c	30.38	+ 0.1	58	57	- 1	W	1	om	*	76	54	-	
	Oxford ...	30.35	WSW	1	b	30.40	+ 0.1	58	57	+ 3	W	0	0	*	70	53	-	
	Cambridge ...	30.34	W	1	b	30.37	- 0.0	62	61	+ 1	WSW	1	0	*	76	49	-	
	Yarmouth ...	30.33	SSE	1	b	30.34	- 0.0	59	58	- 3	WSW	2	b	2	65	53	-	
PENINSULA.	Cuxhaven ...	30.29	W	3	b	30.31	+ 0.1	61	57	- 1	WSW	3	b	*	64	60	-	
	Berlin ...	30.29	W	0	b	30.27	- 0.5	56	52	+ 3	SW	2	b	*	64	50	-	
	Wiesbaden ...	*	*	*	*	30.29	- 0.3	59	57	+ 3	W	0	0	*	70	54	-	
	Munich ...	30.34	W	1	0	30.35	- 0.1	50	49	+ 3	WSW	1	m	*	55	46	0.04	
	The Helder ...	30.33	WSW	1	b	30.33	+ 0.2	58	57	- 2	SSE	1	c	1	66	54	-	
	Brussels (9 a.m.)	*	*	*	*	30.36	+ 0.2	61	61	+ 2	SSW	1	0	*	71	57	-	
	Cape Gris Nez	30.37	E	1	m	30.39	?	62	61	+ 1	E	2	m	1	70	57	-	
	Paris ...	30.32	ENE	3	c	30.36	+ 0.1	60	60	+ 1	N	1	0	*	71	56	-	
	Brest ...	30.34	W	3	c	30.36	- 0.2	59	58	+ 3	E	3	b	3	66	52	-	
	Lorient ...	30.35	W	2	b	30.38	- 0.1	57	56	+ 1	ENE	3	b	3	70	55	-	
FRANCE AND BELGIUM.	Rochefort ...	30.35	WSW	4	b	30.36	- 0.3	61	60	+ 1	NE	4	b	*	77	54	-	
	Belfort ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Lyons ...	30.20	W	1	b	30.26	- 0.1	55	51	- 2	N	2	b	*	?	52	-	
	Nice ...	30.06	SW	4	b	30.06	- 0.0	66	53	+ 2	ENE	4	b	1	77	57	-	
	Perpignan ...	30.13	WSW	3	b	30.17	+ 0.1	64	58	- 4	W	1	b	*	72	56	-	
	Biarritz ...	30.25	ENE	5	b	30.25	- 0.4	59	57	0	ESE	3	m	2	72	57	-	
PENINSULA.	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Lisbon ...	29.89	W	4	b	29.99	- 0.2	71	58	- 3	ENE	3	b	2	93	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

Saturday, 6th September,

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:

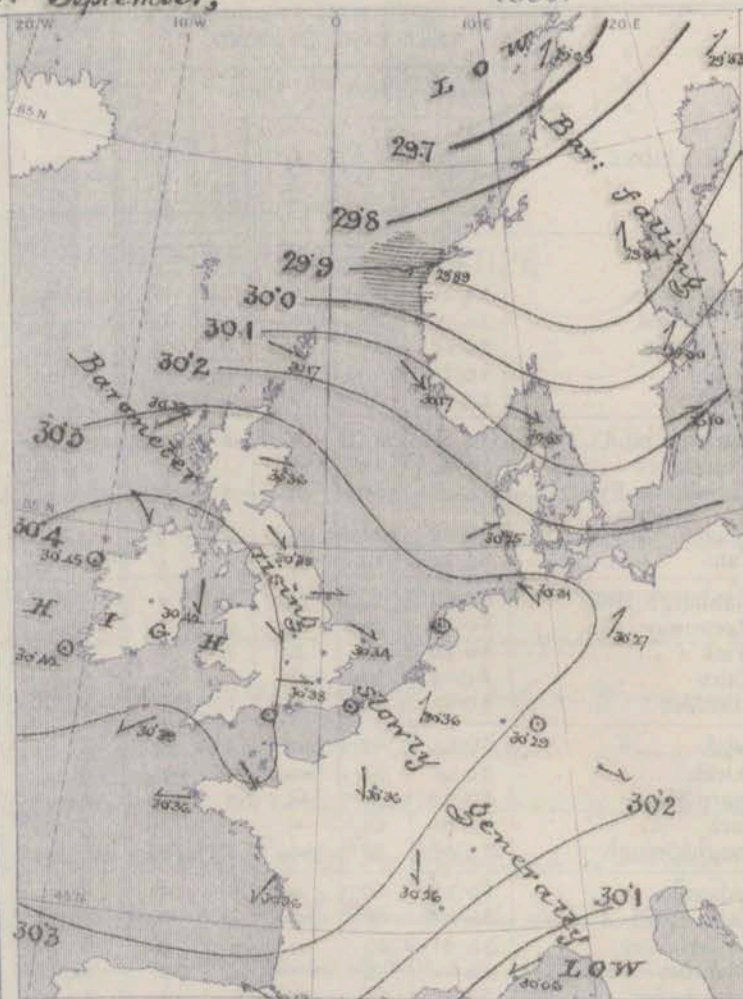
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER.

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumbargh Head	29.768
Stornoway	29.780
Wick	29.793
Nairn	29.809
Aberdeen	29.819
Leith	29.846
Shields	29.869
York	29.905
Loughborough	29.924
Ardrossan	29.850
Donaghadee	29.869
Holyhead	29.894
Liverpool	29.899
Parsonstown	29.904
Valencia	29.917
Roche's Point	29.915
Pembroke	29.913
Silly	29.943
Jersey	29.955
Hurst Castle	29.960
Dover	29.941
LONDON	29.945
Oxford	29.935
Cambridge	29.931
Yarmouth	29.916



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 September.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Dry, at 8 a.m.	Wet.	
Sumbargh Head	55.2	46.3	50.9	49.2	3.46
Stornoway	56.1	45.7	51.1	49.8	4.13
Wick	57.6	45.5	51.8	49.9	2.66
Nairn	59.0	46.8	51.2	48.8	2.73
Aberdeen	59.2	46.7	52.1	49.8	3.22
Leith	62.2	47.6	53.2	50.8	2.47
Shields	59.9	49.3	53.1	51.1	2.68
York	63.3	47.3	52.8	51.0	2.98
Loughborough	65.0	47.9	54.3	52.4	3.06
Ardrossan	59.7	49.6	53.5	51.3	3.87
Donaghadee	59.6	48.8	53.5	52.1	3.22
Holyhead	60.6	52.8	55.7	53.5	3.35
Liverpool	61.2	50.9	54.5	51.9	3.56
Parsonstown	61.0	47.5	53.1	51.1	3.49
Valencia	61.7	54.5	56.3	53.9	4.87
Roche's Point	61.0	51.0	55.4	53.2	4.39
Pembroke	60.2	53.1	56.2	53.8	3.89
Silly	61.8	54.8	58.4	55.2	3.69
Jersey	65.2	54.0	60.8	57.1	3.51
Hurst Castle	64.2	52.2	57.2	55.8	3.55
Dover	62.9	53.0	57.9	56.3	2.86
LONDON	66.3	49.4	55.9	53.6	2.69
Oxford	63.8	49.1	54.2	52.3	2.91
Cambridge	65.5	48.1	54.4	52.9	2.48
Yarmouth	62.0	51.1	56.2	54.4	3.17

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, 30.4 in. and more, over Ireland, Wales, and the western parts of England.
 Lowest, 29.7 in. and less, in the extreme north of Norway; 30.0 in. and less, over the southern parts of Spain and over the Mediterranean.
 Gradients slight. Barometer still rising in our Islands.

TEMPERATURE

Highest, 71° at Lisbon, 66° at Nice, 64° at Loughborough, 63° at Shields, 59° at Stockholm.
 Lowest, 50° at Munich; 51° at Rode, 53° at Sumburg, H. and Nain, 55° at Aberdeen. In London the temperature is 58°, at Paris 60°.
 The daily maxima recorded yesterday ranged between 70° and 78° over the inland parts of England.

WIND

Strong, from the W. over Norway (a gale at Christiansund).
 Light and variable over our Islands (NW. at most station stations).
 N. over France, NE. and E. over the Bay of Biscay.

WEATHER

Fine and bright in Scotland; dull and misty or foggy over Ireland and England, with rain at times in the west.
 Rainy in Norway, fine over the greater part of France and Spain.
 The fog is dense on some parts of our west and south-west coasts.

SEA

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

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There is no decided indication of any important change.

FORECASTS

For the 24 hours ending at NOON on 7th SEPT^r 1890.

DISTRICTS.

FORECASTS.

- | | | |
|---|------------------|---|
| 0 | SCOTLAND NORTH | SW. to NW. winds, rain at times. |
| 1 | SCOTLAND EAST | |
| 2 | ENGLAND N.E. | |
| 3 | ENGLAND EAST | NW. and W. winds; fine generally. |
| 4 | MIDLAND COUNTIES | |
| 5 | ENGLAND SOUTH | Varying airs; fair generally, misty at times and close. |

DISTRICTS.

FORECASTS.

- | | | |
|----|---------------|--|
| 6 | SCOTLAND WEST | Same as No. 0. |
| 7 | ENGLAND N.W. | |
| 8 | ENGLAND S.W. | |
| 9 | IRELAND NORTH | N. breezes, light; fair as a whole, misty and close. |
| 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.		
Shetland ...	30.27	66	55	NNE	1	bc	2	Holyhead ...	30.36	63	61	SW	3	c	2
Sumburgh Head ...	30.15	57	53	NNE	2	c	2	Valencia ...	30.40	62	62	NNE	2	fm	2
Stornoway ...	30.17	60	56	SW	4	c	4	Scilly ...	30.40	62	62	W	2	c	2
Aberdeen ...	30.22	61	56	SE	2	bc	2	Jersey ...	30.44	63	60	NNE	3	c	3
Gairloch ...	30.23	59	56	E	2	bc	2	Dungeness ...	30.35	66	63	SSW	1	bc	1
Ardrossan ...	30.30	61	59	S	1	b	0	London ...	30.33	75	66	W	1	bc	*
Malin Head ...	30.26	60	60	S	2	0	2	Yarmouth ...	30.34	65	62	NNE	1	bc	1
Mullaghmore ...	30.26	64	63	SW	3	fm	3	Rochefort ...	30.38	76	64	NW	4	bc	1
Belmullet ...	30.30	61	61	NNE	4	fm	*								

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

Weather fine and light over the Spanish Peninsula, Algeria, and the south of France, also over Southern Russia, North Germany, the Baltic Provinces and Finland, cloudy or overcast over Northwestern Europe, Germany, and Austria. Rainy over Hungary and at several stations in the western parts of the British Islands. Rainfall in Austria decreasing. Continuing dull and close over the United Kingdom during day, with rain at times in the west, and thunder at Rochepoint.

Temperature low over Central Europe, high over the British Islands; morning reading exceeding 70° at many of the Mediterranean stations, and reaching 80° at Constantinople; ranging from 55° to 64° over the British Islands, but as low as (1) 47° at St. Petersburg, 49° at Moscow, 51° at Kielingfors, 52° at Archangel and Moscow, and (2) 47° at Munich, 50° at Belfast, 52° at Berlin, 54° at The Hague and Vienna. Rising to between 70° and 78° over the inland parts of Great Britain and the southern and southern parts of France later, and to 93° at Lisbon.

Wind light to moderate from the S. in Ireland and the west of Scotland, S. to SW. in Scandinavia, and mainly NE. in southern Europe and on the shores of the Bay of Biscay; very light and variable elsewhere. Veering W. in Ireland and Scotland later, but no other change of importance noted.

Barometer highest, 30.2 in. to 30.4 in. in a large anticyclone of irregular form lying over Western Europe and Germany; 30.2 in. to 30.3 in. over the Gulf of Finland and neighbouring regions. Lowest 29.9 in. and less, over the Baltic and Southern Russia, as well as in some shallow disturbances lying near Livonia, Sardinia, and to the southward of Malta; 30.0 in. and less, over Timmuel, and also near the Strait of Gibraltar. Rising over the United Kingdom later, falling in Lapland and 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 Sunday 7th SEPT 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.	
			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 ...	29.61	50	SW	2	r	29.54	- .24	45	?	- 10	Z	0	c	*	57	45	0.75	
Hernösand ...	29.82	49	NW	2	b	29.84	-.00	53	47	- 5	NW	6	b	*	61	46	-	
Stockholm ...	29.86	54	Z	0	o	29.94	- .06	52	47	- 7	NW	4	b	*	63	52	0.05	
Wisby ...	29.85	59	WSW	6	o	29.95	- .15	55	51	- 5	NNE	6	b	*	63	45	-	
Bodö ...	29.67	51	SW	4	o	29.63	- .06	49	48	- 2	NW	6	r	3	52	46	0.32	
Christiansund	29.98	53	WSW	9	o	30.15	+ .26	51	49	- 3	W	4	r	6	54	48	0.47	
Skudesnaes ...	30.19	54	NW	6	o	30.29	+ .12	56	52	- 2	NW	6	o	4	52	50	0.04	
Christiania Fjord (Farther)	30.01	60	NW	3	c	30.10	+ .11	?	50	?	NW	3	b	2	63	55	-	
Skagen (The Scaw)	30.02	59	NNW	5	b	30.10	+ .05	58	53	- 1	N	3	b	2	70	55	-	
Fanö ...	30.22	54	NW	4	b	30.25	-.00	56	54	- 1	NW	5	e	*	61	54	-	
Sumburgh Head	30.26	53	NNW	3	bc	30.32	+ .15	54	54	+ 1	W	2	m	3	57	47	-	
Stornoway ...	30.37	58	H	3	o	30.34	+ .02	58	54	+ 2	Z	0	o	2	61	53	-	
Wick ...	30.39	54	NW	1	o	30.40	+ .08	62	58	+ 5	SW	1	bc	1	62	54	-	
Nairn ...	30.38	62	NNW	1	bc	30.39	+ .05	56	52	+ 3	SW	1	b	1	66	46	-	
Aberdeen ...	30.41	56	S	2	b	30.43	+ .07	60	55	+ 5	NNE	1	bmw	0	68	47	-	
Leith ...	30.39	59	NNW	1	b	30.43	+ .08	58	54	- 3	NW	1	bm	*	72	45	-	
Shields ...	30.42	58	NE	2	b	30.44	+ .09	52	51	- 11	SSW	1	bc	2	68	47	-	
Spurn Head ...	30.40	59	NNE	2	bm	30.51	+ .16	60	54	- 1	ENE	1	bmw	1	63	52	-	
York ...	30.41	65	ENE	1	b	30.48	+ .12	56	55	- 5	SSW	1	c	*	75	53	-	
Loughborough	30.40	68	W	1	o	30.48	+ .10	55	54	+ 9	ESE	1	omw	*	74	53	-	
ARDROSSAN ISLANDS.																		
Ardrossan ...	30.43	60	W	1	b	30.43	+ .03	57	54	0	Z	0	bmw	0	64	48	-	
Malin Head ...	30.42	56	E	3	b	30.38	- .06	62	58	+ 9	SSW	3	bw	1	62	53	-	
Mullaghmore ...	30.42	62	NW	1	b	30.37	- .08	61	56	+ 5	E	4	b	2	63	54	-	
Belmullet ...	30.41	62	NW	1	b	30.34	- .11	61	54	+ 6	E	1	b	*	66	54	-	
Donaghadee ...	30.45	58	N	2	b	30.45	-.00	54	54	- 3	NE	1	f	0	61	54	-	
LIVERPOOL ISLANDS.																		
Liverpool (Bidston)	30.44	59	NNW	1	b	30.44	+ .02	58	57	- 1	SE	3	o	3	61	53	-	
Holyhead ...	30.45	57	NNE	2	b	30.43	+ .01	63	59	+ 5	SSW	1	bmw	1	63	50	-	
Parsonstown ...	30.40	62	Z	0	c	30.38	- .06	54	56	+ 1	Z	0	b	*	70	49	-	
Valencia ...	30.40	64	ESE	1	bm	30.22	- .10	64	61	+ 6	ESE	2	bmw	3	67	56	-	
Roche's Point...	30.42	62	ESE	1	b	30.37	- .06	60	55	+ 1	ESE	4	om	3	65	55	-	
Channel Islands.																		
Pembroke (St. Ann's Hd.)	30.40	61	NNE	3	b	30.42	-.00	60	60	- 1	E	2	m	2	69	58	0.01	
Scilly ...	30.38	61	NNE	2	o	30.35	- .04	61	60	+ 1	E	2	m	2	65	56	-	
Prawle Point ...	30.40	64	ENE	1	b	30.43	+ .03	62	60	0	ENE	3	m	2	73	59	-	
Jersey (St. Aubin's)	30.38	66	NNW	2	b	30.41	+ .01	60	59	0	E	3	cf	2	70	57	-	
Hurst Castle ...	30.45	69	WSW	1	om	30.46	+ .06	64	60	+ 5	E	1	cm	1	71	58	-	
ENGLISH ISLANDS.																		
Dungeness ...	30.46	65	Z	0	m	30.43	+ .07	61	58	- 2	NE	3	c	2	72	54	-	
London ...	30.38	70	NNE	1	c	30.46	+ .08	55	54	- 3	E	2	o	*	75	52	-	
Oxford ...	30.41	66	N	2	o	30.48	+ .08	55	54	- 3	NE	1	o	*	75	52	0.01	
Cambridge ...	30.42	65	Z	0	c	30.48	+ .11	56	55	- 6	NE	1	bc	*	74	53	-	
Yarmouth ...	30.38	63	N	2	b	30.46	+ .12	59	56	0	NE	3	bw	3	67	53	-	
GERMAN ISLANDS.																		
Cuxhaven ...	30.32	60	NNW	4	o	30.30	- .01	54	54	- 2	NNW	5	bc	*	64	56	-	
Berlin ...	30.31	60	Z	0	o	30.17	- .10	54	51	- 1	NNW	4	o	*	66	52	-	
Wiesbaden ...	30.38	52	W	1	b	30.34	+ .05	57	55	- 2	ESE	1	b	*	72	52	-	
Munich ...	30.38	52	W	1	b	30.32	- .06	57	51	+ 2	W	5	o	*	59	46	-	
The Helder ...	30.35	59	N	1	b	30.41	+ .08	58	54	0	N	2	bc	3	64	57	-	
FRANCE AND BELGIUM.																		
Brussels (8 a.m.)	*	*	*	*	*	30.43	+ .07	57	55	- 4	NW	1	o	*	70	54	-	
Cape Gris Nez	30.40	62	E	3	m	30.47	+ .08	60	57	- 2	E	4	o	3	70	57	-	
Paris ...	30.34	66	N	2	b	30.40	+ .04	58	58	- 2	NNE	2	o	*	74	54	-	
Brest ...	30.33	71	E	3	b	?	?	62	61	+ 3	E	2	b	3	72	50	-	
Lorient ...	30.33	69	NNW	1	b	30.34	- .04	60	59	+ 3	E	2	b	2	75	57	-	
Channel Islands.																		
Rochefort ...	30.33	73	ENE	4	b	30.34	- .02	60	58	- 1	ENE	4	b	?	80	54	-	
Belfort ...	30.26	57	SW	1	b	30.28	+ .12	50	43	- 5	SW	1	b	*	69	47	-	
Lyons ...	30.24	65	NNW	2	b	30.28	+ .02	58	50	0	NNW	2	b	*	70	52	-	
Nice ...	30.08	69	Z	0	o	30.13	+ .07	66	56	0	E	1	b	1	81	59	-	
Perpignan ...	30.14	74	W	3	b	30.20	+ .03	60	55	- 4	W	2	b	*	80	53	-	
Biarritz ...	30.21	68	W	3	b	30.22	- .03	60	59	+ 1	SE	2	m	1	75	59	-	
PENINSULAR ISLANDS.																		
Corunna ...	*	*	*	*	*	30.10	+ .11	67	64	- 4	Z	0	b	?	88	46	-	
Lisbon ...	30.02	71	SW	4	o	30.10	+ .11	67	64	- 4	Z	0	b	?	88	46	-	

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, 7th September,

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:

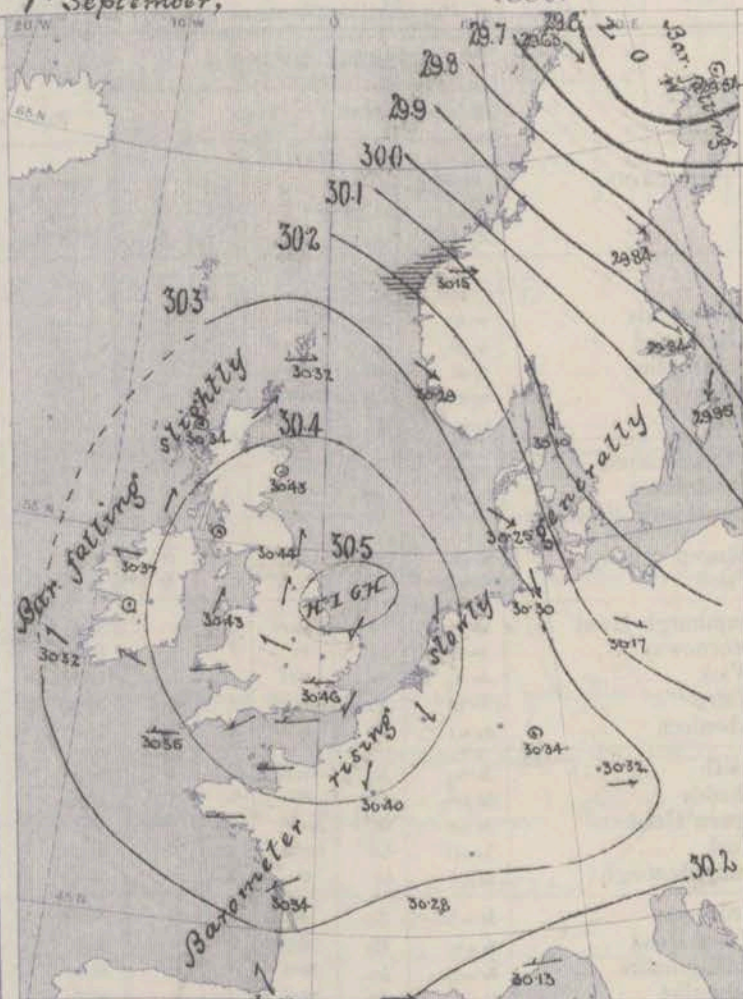
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.766
Stornoway	29.780
Wick	29.793
Nairn	29.809
Aberdeen	29.819
Leith	29.846
Shields	29.869
York	29.905
Loughborough	29.924
Ardrossan	29.950
Donaghadee	29.869
Holyhead	29.894
Liverpool	29.899
Parsonstown	29.904
Valencia	29.917
Roche's Point	29.915
Pembroke	29.913
Selly	29.943
Jersey	29.955
Hurst Castle	29.960
Dover	29.941
LONDON	29.945
Oxford	29.935
Cambridge	29.931
Yarmouth	29.916



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.

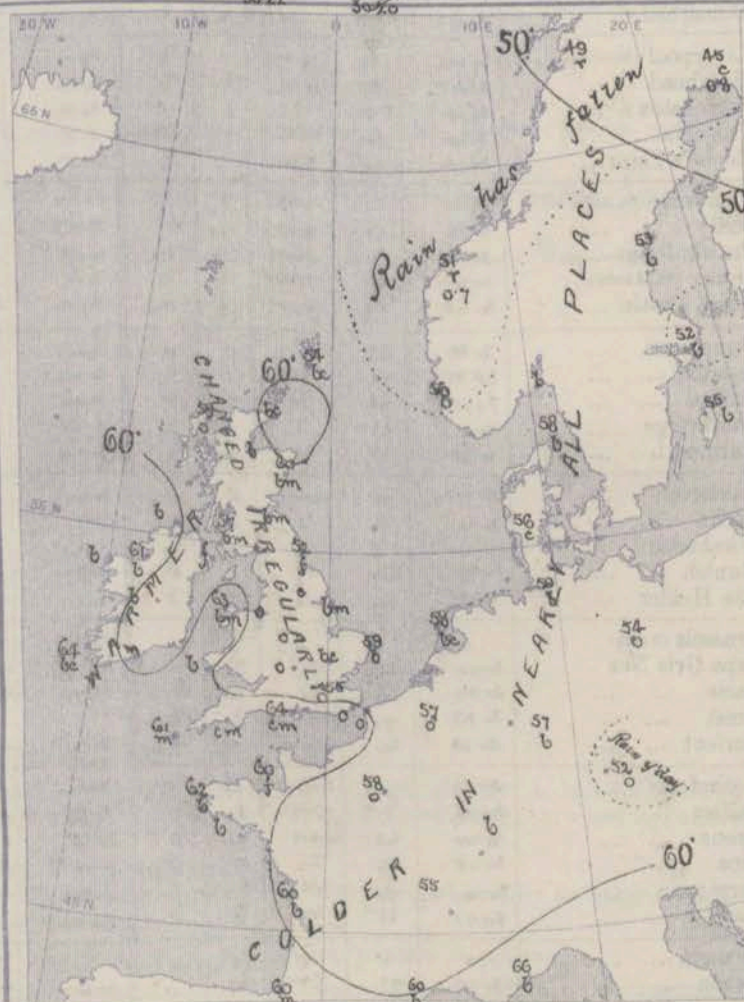
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of September.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Dry.	Wet.	
Sumburgh Head	55.2	46.3	50.9	49.2	3.46
Stornoway	56.1	46.7	51.1	49.8	4.13
Wick	57.6	45.5	51.8	49.9	2.66
Nairn	59.0	46.8	51.2	48.8	2.73
Aberdeen	59.2	46.7	52.1	49.8	3.22
Leith	62.2	47.6	53.2	50.8	2.47
Shields	59.9	49.3	53.1	51.1	2.68
York	63.3	47.3	52.8	51.0	2.98
Loughborough	65.0	47.9	54.3	52.4	3.00
Ardrossan	59.7	49.6	53.5	51.3	3.87
Donaghadee	59.6	48.8	53.3	52.1	3.22
Holyhead	60.6	52.8	55.7	53.5	3.35
Liverpool	61.2	50.9	54.5	51.9	3.56
Parsonstown	61.6	47.5	53.1	51.1	3.49
Valencia	61.7	51.5	59.3	48.9	4.87
Roche's Point	61.9	51.0	55.4	53.2	4.39
Pembroke	60.2	53.1	56.2	53.8	3.89
Selly	61.8	54.8	58.4	56.2	3.69
Jersey	65.2	54.9	59.8	57.1	3.51
Hurst Castle	64.2	52.2	57.2	55.8	3.35
Dover	62.9	53.0	57.9	55.3	2.86
LONDON	66.3	49.4	55.9	53.6	2.59
Oxford	63.8	49.1	54.2	52.3	2.91
Cambridge	65.5	48.1	54.4	52.9	2.48
Yarmouth	62.0	51.1	56.2	54.4	3.17

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, 30.3 in. to 30.5 in. in an anticyclone covering the British Islands, North Sea, Holland, and greater part of France.
Lowest, 29.6 in. and less, in a depression over Lapland; 29.1 in. at Lisbon and Niz.
Gradients steep over Scandinavia, slight in our Islands.
Barometer falling slightly at our western stations, rising in the north and northeast, falling fast Iceland.

TEMPERATURE

Highest, 78° at Looe, 67° at Looe, 66° at Niz, 64° at Valencia Island, 62° at Malin Head and Wick, 60° at Spinn Head.
Lowest, 45° at Haparanda, 43° at Hov, 41° at Christianmünd, 31° at Stockholm and also at Munich, 33° in London.
The daily maxima yesterday were 70° to 75° over Great Britain and major part of France, 80° at Perpignan, 86° at Rochefort, 88° at Lisbon.

WIND

Anticyclonic over our Islands and neighbourhood; — NE³ to E⁴ over Channel, Bay of Biscay and Ireland, SW³ at most of our northern stations, SE² in northwest of England. Strong W to NW³ in Norway, Sweden, and Denmark, but NNE³ at Maly.

WEATHER

Bell and rainy over Norway, dull at Berlin; fine generally elsewhere, and in most places light and dry.
 Rain has fallen fully over Scandinavia and at Munich, none worth mentioning in our Islands.

SEA

Rough on Norwegian coast, moderate at Looe, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 8th SEPT.

1890.

DISTRICTS.

FORECASTS.

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

None Issued

DISTRICTS.

FORECASTS.

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

None Issued

WARNINGS

None Issued

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND		WEA.	SEA		BAR.		THER.		WIND		WEA.	SEA
		D.	W.	D.	F.						D.	W.	D.	F.		
Skudesnaes ...	30.21	58	53	WNW	6	c	3		Holyhead ...	30.46	59	57	N	2	c	2
Sumburgh Head ...	30.23	55	52	WNW	3	c	3		Valencia ...	30.43	64	62	NNE	2	cm	2
Stornoway ...	30.36	60	55	W	3	c	3		Scilly ...	30.39	65	63	ENE	2	c	3
Aberdeen ...	30.38	67	56	WNW	2	b	1		Jersey ...	30.40	69	65	WN	2	c	2
Shields ...	30.39	67	58	NE	2	b	2		Dungeness ...	30.36	72	65	SW	1	bc	0
Ardrossan ...	30.42	62	58	WN	2	b	1		London ...	30.38	70	66	NNW	1	o	8
Malin Head ...	30.44	58	55	N	1	b	1		Yarmouth ...	30.37	67	62	NNE	3	b	2
Mullaghmore ...	30.45	61	59	NW	1	b	2		Rochefort ...	30.39	74	70	N	4	b	?
Belmullet ...	30.43	66	63	SW	1	b	*									

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

Weather fine or fair generally, over the British Islands, Western and Southern Europe, but temporarily dull, hazy, or foggy at first in many places, bright over Russia; very rainy in the north of Norway, dull over Southeastern Europe, with rain in places. Considerable rain over Scandinavia and Finland later, and sharp local falls in some parts of Germany, Austria, and the south of Russia.

Temperature in morning exceeding 70° on the Portuguese and Spanish coasts, and at a few of the Mediterranean stations only, much lower elsewhere; as low as (1.) 43° at Archangel, 47° at Moscow, 51° at Riga, St. Petersburg and Rodo; (2.) 50° at Munich, 51° at Breslau, 59° at Rastow, and 55° at Lyons; ranging between 58° and 63° over the British Islands. Rising to between 70° and 75° over England later, to a rather higher level over Italy, and to nearly 90° over the inland parts of Algeria.

Wind light and anticyclonic over the British Islands and France, strong NW and W over the eastern shores of the North Sea, and blowing a gale from WSW at Christianund. Moderate S over the Gulf of Bohemia and the Baltic, very variable and light over Central and Southern Europe. Very little change later.

Barometer highest 30.2 ins. to 30.4 ins. and more, in an anticyclone covering the British Islands, France, and the North Sea (centre over Ireland); lowest, 29.7 ins. and less, in a depression off the north-west of Norway, 29.8 ins. and less, in another the Black Sea and Southern Russia, 30.0 ins. and less, over the southeastern part of the Mediterranean. Depression in far north advancing over Lapland later; that over the Black Sea and Southern Russia undergoing some modifications.

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, 8th September, 1890.*
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 4.)	SHADE TEMP.		Amount of Rainfall.	
	Reading at 32° F. and Sea Level.	Dry.	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 ...	29.82	46	NE	2	bc	30.02	+ .48	48	45	+ 3	NE	4	b	*	?	43	-	
Hernösand ...	30.22	51	NNW	8	b	30.17	+ .33	50	44	- 3	N	6	b	+	64	46	-	
Stockholm ...	30.04	53	NW	4	b	30.13	+ .19	50	45	- 2	NNW	4	b	+	63	46	-	
Wisby ...	30.02	57	NNW	6	b	30.09	+ .14	52	48	- 3	NNE	8	b	+	61	45	-	
Bodö ...	30.13	48	NW	4	c	30.14	+ .51	57	45	+ 2	E	2	c	1	?	45	0.08	
Christiansund	30.28	52	WNW	6	r	30.20	+ .05	53	52	+ 2	S	5	r	4	54	?	0.28	
Skudesnaes ...	30.87	51	NNW	2	b	30.86	+ .07	56	53	0	Z	0	c	2	?	48	-	
Christiania Fjord (Færder)	30.18	61	W	3	b	30.29	+ .19	57	51	?	NNW	2	b	1	61	55	-	
Skagen (The Seaw)	30.16	58	Z	0	b	30.29	+ .19	58	57	0	EHE	1	b	2	64	54	-	
Fanö ...	30.29	55	NW	4	b	30.31	+ .06	56	55	0	NW	2	b	*	61	52	-	
Sumburgh Head	30.34	57	WSW	2	0	30.23	- .09	59	57	+ 5	Z	0	b	1	59	52	-	
Stornoway ...	30.28	64	S	2	b	30.22	- .12	59	58	+ 1	SW	2	m	2	67	56	-	
Wick ...	30.38	64	S	1	b	30.26	- .14	62	58	0	S	1	b	1	68	48	-	
Nairn ...	30.30	70	Z	0	b	30.26	- .13	60	57	+ 4	W	1	bc	1	75	48	-	
Aberdeen ...	30.38	58	S	2	b	30.32	- .11	61	57	+ 1	NNW	1	bmw	1	68	48	-	
Leith ...	30.37	62	NW	1	b	30.35	- .08	60	57	+ 2	Z	0	bm	*	71	50	-	
Shields ...	30.38	63	SE	1	b	30.38	- .06	56	52	+ 4	SW	2	bm	2	66	50	-	
Spurn Head ...	30.41	60	ESE	3	b	30.41	- .10	61	58	+ 1	WNW	1	bm	2	63	54	-	
York ...	30.43	68	S	1	b	30.42	- .06	53	50	- 3	ESE	1	b	*	72	51	-	
Loughborough	30.43	70	ESE	1	b	30.45	- .03	55	54	0	ESE	1	blw	*	79	48	-	
Ardrossan ...	30.39	64	Z	0	bm	30.34	- .09	61	60	+ 4	SSE	1	om	0	69	55	-	
Malin Head ...	30.31	69	ESE	2	c	30.25	- .13	62	59	0	S	5	bmw	1	71	59	-	
Mullaghmore ...	30.31	70	SE	4	bc	30.23	- .14	61	57	0	E	4	bm	2	73	59	-	
Belmullet ...	30.31	71	SW	1	b	30.20	- .14	62	59	+ 1	SE	1	b	*	72	58	-	
Donaghadee ...	30.39	59	S	2	b	30.36	- .09	58	57	+ 4	SE	2	bc	0	64	52	-	
Liverpool (Bidston)	30.41	68	NNE	1	b	30.39	- .05	61	58	+ 3	SE	2	b	3	73	54	-	
Holyhead ...	30.41	62	Z	0	b	30.39	- .04	64	62	+ 1	Z	0	bmw	0	70	57	-	
Parsonstown ...	30.34	69	SE	1	b	30.31	- .07	58	56	- 1	SE	1	b	*	60	53	-	
Valencia ...	30.29	65	SE	3	bm	30.26	- .06	60	59	- 4	SE	4	ogm	4	66	58	-	
Roche's Point...	30.35	62	SE	3	bc	30.32	- .05	59	57	- 1	SE	4	m	4	65	56	-	
Pembroke (St. Ann's Hd.)	30.39	65	ESE	2	m	30.38	- .04	60	59	0	ESE	3	bw	2	66	57	0.01	
Scilly ...	30.36	62	E	5	om	30.32	- .03	61	60	0	ESE	4	0	2	66	57	-	
Prawle Point ...	30.40	58	EHE	4	bc	30.41	- .02	61	60	- 1	EHE	3	cm	2	66	57	-	
Jersey (St. Aubin's)	30.37	65	EHE	4	bcf	30.41	- .00	63	57	+ 3	E	3	bmw	3	68	56	-	
Hurst Castle ...	30.44	63	ESE	2	b	30.45	- .01	62	59	- 2	SE	3	bc	1	68	56	-	
Dungeness ...	30.44	62	EHE	4	bc	30.45	+ .02	63	58	+ 2	ESE	3	bc	1	67	56	-	
London ...	30.46	66	E	2	b	30.45	- .01	55	53	0	E	1	bfw	*	72	48	-	
Oxford ...	30.46	58	E	1	b	30.46	- .02	54	52	- 1	Z	0	bmw	*	70	45	-	
Cambridge ...	30.47	60	NE	1	b	30.46	- .02	53	53	- 3	S	1	bw	*	74	45	-	
Yarmouth ...	30.47	61	EHE	2	b	30.45	- .01	58	56	- 1	Z	0	bw	2	63	49	-	
GERMANY & HOLLAND.																		
Cuxhaven ...	30.30	60	SW	5	0	30.32	+ .02	60	57	+ 1	? SW	5	b	*	62	59	-	
Berlin ...	30.19	58	NW	3	c	30.25	+ .08	54	52	0	NNW	3	b	*	64	50	-	
Wiesbaden ...	*	*	*	*	*	30.37	+ .03	57	53	0	NNW	1	0	*	64	46	-	
Munich ...	30.36	52	W	3	0	30.35	+ .03	50	49	- 2	NW	4	r	*	63	48	0.04	
The Helder ...	30.43	58	N	2	b	30.43	+ .02	59	56	+ 1	N	1	c	1	61	57	-	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.)	*	*	*	*	*	30.44	+ .01	54	53	- 3	NNE	1	0	*	66	48	-	
Cape Gris Nez	30.47	59	E	4	bc	30.48	+ .01	55	54	- 5	ESE	3	b	2	68	50	-	
Paris ...	30.38	63	NNE	2	b	30.41	+ .01	51	50	- 7	NE	2	b	*	70	47	-	
Brest ...	30.26	75	E	3	b	30.29	?	60	59	- 2	SE	3	b	3	79	54	-	
Lorient ...	30.29	72	E	2	b	30.32	- .02	57	55	- 3	EHE	3	b	2	79	54	-	
Rochefort ...	30.28	76	E	5	b	30.30	- .04	58	55	- 2	EHE	5	b	*	86	54	-	
Belfort ...	30.26	58	E	1	b	30.27	- .00	53	41	+ 3	Z	1	b	*	69	48	-	
Lyons ...	30.23	66	NNW	3	b	30.28	- .03	52	49	- 3	N	3	b	*	73	50	-	
Nice ...	30.05	66	E	1	b	30.05	- .08	62	52	- 4	E	3	b	0	77	52	-	
Perpignan ...	30.12	69	SE	2	b	30.11	- .09	61	57	+ 1	SW	1	b	*	79	54	-	
Biarritz ...	30.14	71	E	3	b	30.15	- .07	62	60	+ 2	E	2	b	2	81	57	-	
PENIN- SULA.																		
Corunna ...	*	*	*	*	*	30.13	+ .03	68	61	+ 1	N	3	b	4	84	64	-	
Lisbon ...	30.10	76	NW	4	c	30.13	+ .03	68	61	+ 1	N	3	b	4	84	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

Monday, 8th September.

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:

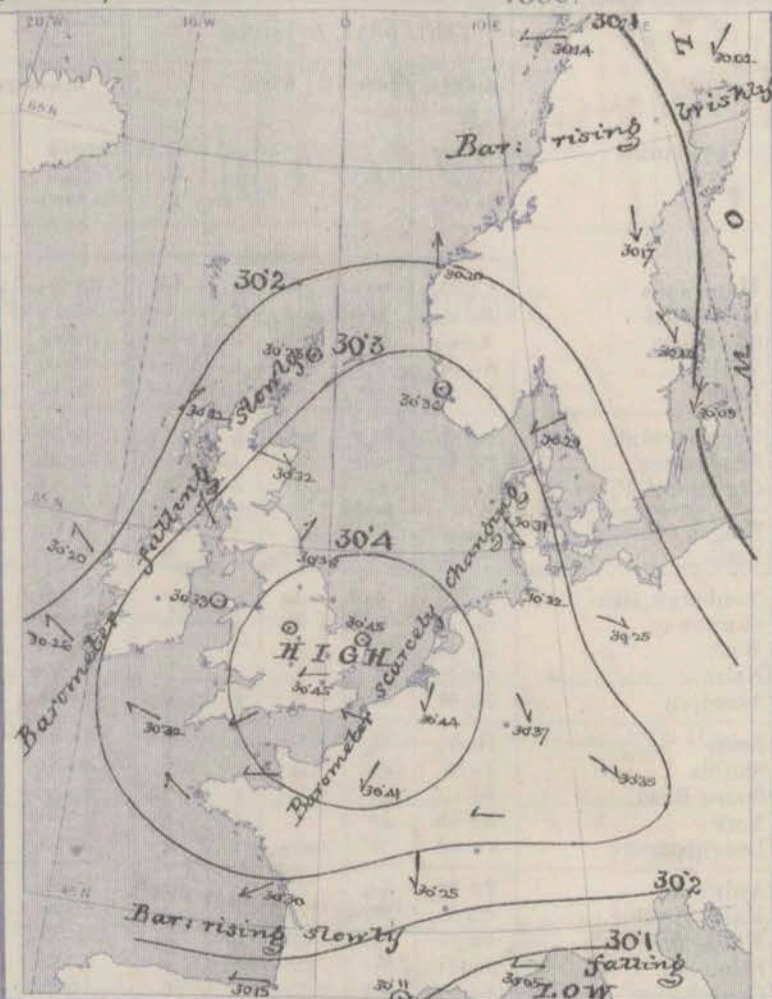
■ = Rough. ■ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.766
Stornoway	29.780
Wick	29.793
Nairn	29.809
Aberdeen	29.819
Leith	29.846
Shields	29.869
York	29.905
Loughborough	29.924
Ardrossan	29.850
Donaghadee	29.869
Holyhead	29.894
Liverpool	29.899
Parsonstown	29.904
Valencia	29.917
Roche's Point	29.915
Pembroke	29.913
Scilly	29.943
Jersey	29.955
Hurst Castle	29.960
Dover	29.941
LONDON	29.945
Oxford	29.935
Cambridge	29.931
Yarmouth	29.916



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.

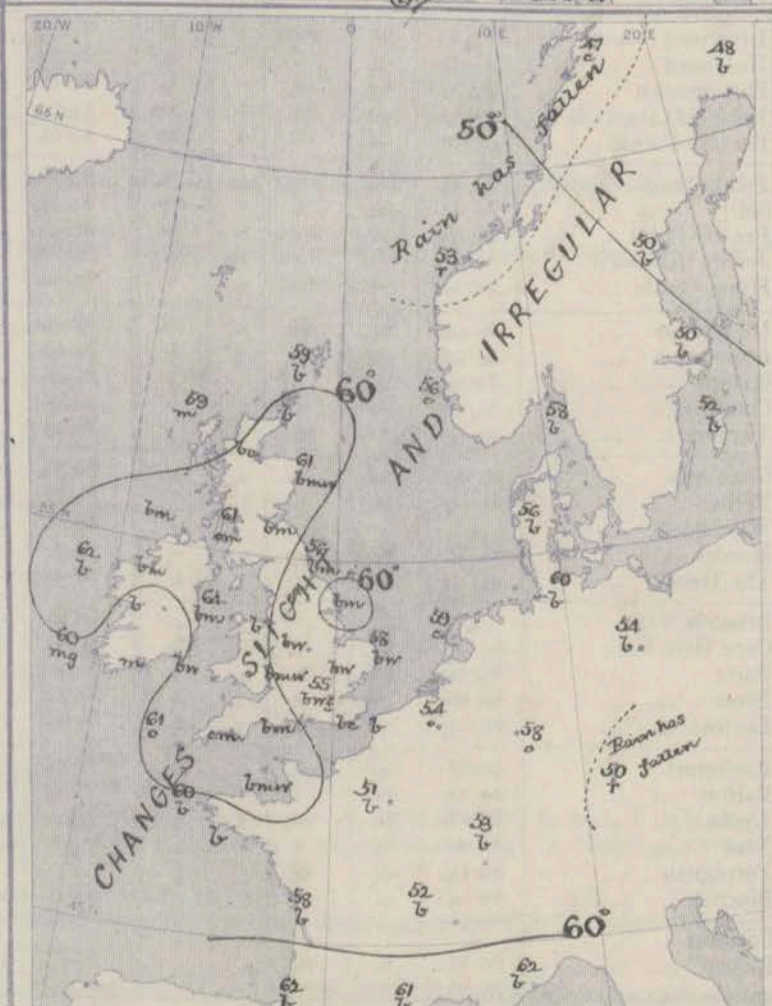
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of September.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Dry.	Wet.	
Sumburgh Head	53.2	46.3	50.9	49.2	3.46
Stornoway	50.1	45.7	51.1	49.8	4.13
Wick	57.6	45.5	51.8	49.9	2.66
Nairn	59.0	46.8	51.2	48.8	2.73
Aberdeen	59.2	46.7	52.1	49.8	3.22
Leith	62.2	47.6	53.2	50.8	3.47
Shields	59.9	49.3	53.1	51.1	2.58
York	63.3	47.3	52.8	51.0	2.98
Loughborough	65.0	47.9	54.3	52.4	3.00
Ardrossan	60.7	49.6	53.5	51.3	3.87
Donaghadee	59.6	48.8	53.3	52.1	3.22
Holyhead	60.6	52.8	55.7	53.5	3.35
Liverpool	61.2	50.9	54.5	51.9	3.56
Parsonstown	61.6	47.5	53.1	51.1	3.49
Valencia	61.7	51.5	56.3	53.9	4.87
Roche's Point	61.9	51.6	55.4	53.2	4.39
Pembroke	60.2	53.4	56.2	53.8	3.89
Scilly	61.8	54.8	58.4	56.2	3.60
Jersey	65.2	54.9	59.8	57.1	3.51
Hurst Castle	64.2	52.2	57.2	55.8	3.55
Dover	62.9	53.0	57.9	55.3	2.86
LONDON	66.3	49.4	55.9	53.6	2.59
Oxford	63.8	49.1	54.2	52.3	2.91
Cambridge	65.5	48.1	54.4	52.9	2.48
Yarmouth	62.0	51.1	56.2	54.4	3.17

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, 30.3 in: to 30.4 in: and more over Ireland, England, the North Sea, France, and Western Germany.
 Lowest, 30.2 in: and less, off the west of our Islands, 30.1 in: and less, over the Baltic and Gulf of Genoa.
 Gradients slight. Barometer falling a little in the west and north-west, steady in the south-east, rising slightly in the far south.

TEMPERATURE

Highest, 68° at Linton, 64° at Holyhead, 63° at Dungeness, 62° at Bismarck and Nicks.
 Lowest, 47° at Kide, 48° at Haparanda, 50° at Stockholm, 53° to 55° over the inland parts of England.
 It rose to between 70° and 75° over the inland parts of Great Britain yesterday, to 70° at Paris, and 77° at Nice.

WIND

Moderate SE³ on our southern and western coasts, light S² and variable in Scotland, strong N⁴ in Sweden, light E² in the Channel and over the Bay of Biscay.

WEATHER

Rainy again at Munich, but fell slight; fine generally in all other regions, but dull in a few places.
 Fog and haze are reported in many parts of Ireland and England.

SEA

Moderate off the south coast of Ireland, slight or smooth in all other places.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There is no indication of any important change.

FORECASTS

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

DISTRICTS.

FORECASTS.

- | | | |
|---|------------------|--|
| 0 | SCOTLAND NORTH | S ² winds, moderate to fresh; some showers. |
| 1 | SCOTLAND EAST | |
| 2 | ENGLAND N.E. | |
| 3 | ENGLAND EAST | SW ² and Variable airs; fine, warm. |
| 4 | MIDLAND COUNTIES | |
| 5 | ENGLAND SOUTH | Variable E ² airs and Calms; fine, warm, fog in night or early morning. |
| | | |



DISTRICTS.

FORECASTS.

- | | | |
|----|---------------|---------------------------------------|
| 6 | SCOTLAND WEST | Same as No 0 |
| 7 | ENGLAND N.W. | |
| 8 | ENGLAND S.W. | SE ² breezes, light; fine. |
| 9 | IRELAND NORTH | |
| 10 | IRELAND SOUTH | |

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND		WEA.	SEA.		BAR.	THER.		WIND		WEA.	SEA.
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	30.35	58	54	MMW	6	0	3		Holyhead ...	30.44	64	61	N	1	6
Sumburgh Head ...									Valencia ...						
Stornoway ...	30.32	67	61	SW	2	6	2		Scilly ...						
Aberdeen ...									Jersey ...	30.41	65	62	E	4	0
Shields ...									Dungeness ...	30.45	64	59	ESE	4	6
Ardrossan ...									London ...						*
Malin Head ...	30.34	68	62	SW	3	6	1		Yarmouth ...						
Mullaghmore ...									Rochefort ...	30.31	84	66	C	5	6
Belmullet ...	30.21	71	66	SW	1	6	*								2

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

Weather fine and bright over the British Islands and western Europe generally, but cloudy, hazy or foggy in a few places; Very dull and gloomy over the whole of northern and eastern Europe, rainy over Scandinavia, at Riga and in some parts of southern Russia, rainfall considerable at Christiansund later, slight at Bodø, and also at Munich, weather fine over western Europe all day.

Temperature varying considerably; morning readings exceeding 70° over some parts of the Iberian Peninsula, Algeria, and also at Malta and Brindisi, exceeding 60° on the British and Irish coasts and on the northern shores of the Mediterranean. Much lower elsewhere, as low as 44° at Moscow, 45° at Haparanda, 47° at St. Petersburg, 49° at Bodø, and 52° at Lemberg and Munich; rising during the day to between 70° & 75° over St. Britain and to nearly 80° over the greater part of France - to 81° at Biarritz, 84° at Lisbon and 86° at Rochefort.

Wind light and anticyclonic over the British Islands and France - E. at the more southern stations, SW. in the north. Chiefly NW. to N. over Scandinavia, the Baltic, Germany and Austria - strong at the Norwegian stations; W. over the Gulf of Finland and in Poland, very variable over Russia and the Mediterranean becoming SE. in Ireland later, no important change elsewhere.

Barometer 30.2 ins. to 30.5 ins. in a large anticyclone covering the whole of the British Islands, France, the north of Spain, the North Sea and western Germany; exceeding 29.9 ins. over central Russia, lowest 29.6 ins. and less over Lapland, 29.7 ins. and less over the Baltic Provinces, 29.8 ins. and less over the Black Sea. Falling slightly over the United Kingdom later, rising briskly over Scandinavia; anticyclonic system moving southwards slowly.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 31ST AUG. TO THE 8TH SEPT. 1890.

The cold weather and N. winds, noticed in the summary for last week as prevailing over the British Islands, continued in force over England until Monday, when, owing to the movement in a southeasterly direction of the high-pressure area which had previously been lying over and to the westward of Ireland, the wind shifted to the W. and SW., temperature rose decidedly, and an entirely new type of weather set in over the United Kingdom. From Tuesday to Saturday pressure was highest over France and the south of England, lowest off our northwest coasts, and though some depressions moved from SW. to NE. outside our extreme northwestern districts they were comparatively shallow systems, and brought little wind to any but the extreme northwestern stations. Rain, however, fell daily in the west and northwest, and at such exposed stations as Belmullet, Mullaghmore, Malin H. and Ardrossan the aggregate fall was large (1.7 ins. to 2.0 ins), while at Valencia, Roch's Point, Pembroke, Holyhead and Liverpool it was very moderate. Over the greater part of England the fall for the week was very slight indeed, except over our northeast and east counties, where on Wednesday and Thursday there were occasional showers, due apparently to shallow local disturbances over the North Sea. Temperature during this period was much higher than that of the preceding days - the maxima over England rising to between 70° and 79° at times; the air has been close, the sky cloudy, and at times thunderstorms have occurred locally in some few regions. At the close of the week the high-pressure area had moved northwards to our Islands.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

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

PUBLISHED BY THE SCANDINAVIAN OFFICE, 65, FETTER LANE, LONDON. H. H. SCOTT, Secretary.																	
YESTERDAY EVENING.																	
8 A.M. TO DAY.																	
PAST 24 HOURS.																	
STATIONS.																	
Barom.																	
Temp.																	
Wind.																	
Barometer.																	
Shade Temp.																	
Wind.																	
Shade Temp.																	
Amount of Rainfall.																	
SCANDINAVIA.																	
Haparanda ...																	
Hernösand ...																	
Stockholm ...																	
Wisby ...																	
Bodö ...																	
Christiansund																	
Skudesnaes ...																	
Christiania Fjord																	
Skagen (The Scaw)																	
Fanö ...																	
Sumburgh Head																	
Stornoway ...																	
Wick ...																	
Nairn ...																	
Aberdeen ...																	
Leith ...																	
Shields ...																	
Spurn Head ...																	
York ...																	
Loughborough																	
Ardrossan ...																	
Malin Head ...																	
Mullaghmore ...																	
Belmullet ...																	
Donaghadee ...																	
Liverpool (Bidston)																	
Holyhead ...																	
Parsonstown ...																	
Valencia ...																	
Roche's Point...																	
Pembroke (St. Ann's Hd.)																	
Scilly ...																	
Prawle Point ...																	
Jersey (St. Aubin's)																	
Hurst Castle ...																	
Dungeness ...																	
London ...																	
Oxford ...																	
Cambridge ...																	
Yarmouth ...																	
Cuxhaven ...																	
Berlin ...																	
Wiesbaden ...																	
Munich ...																	
The Helder ...																	
Brussels (9 a.m.)																	
Cape Gris Nez																	
Paris ...																	
Brest ...																	
Lorient ...																	
Rochefort ...																	
Belfort ...																	
Lyons ...																	
Nice ...																	
Perpignan ...																	
Biarritz ...																	
Corunna ...																	
Lisbon ...																	

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

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

WEATHER CHARTS

for 8 a.m. on

Tuesday, 9th September.

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:

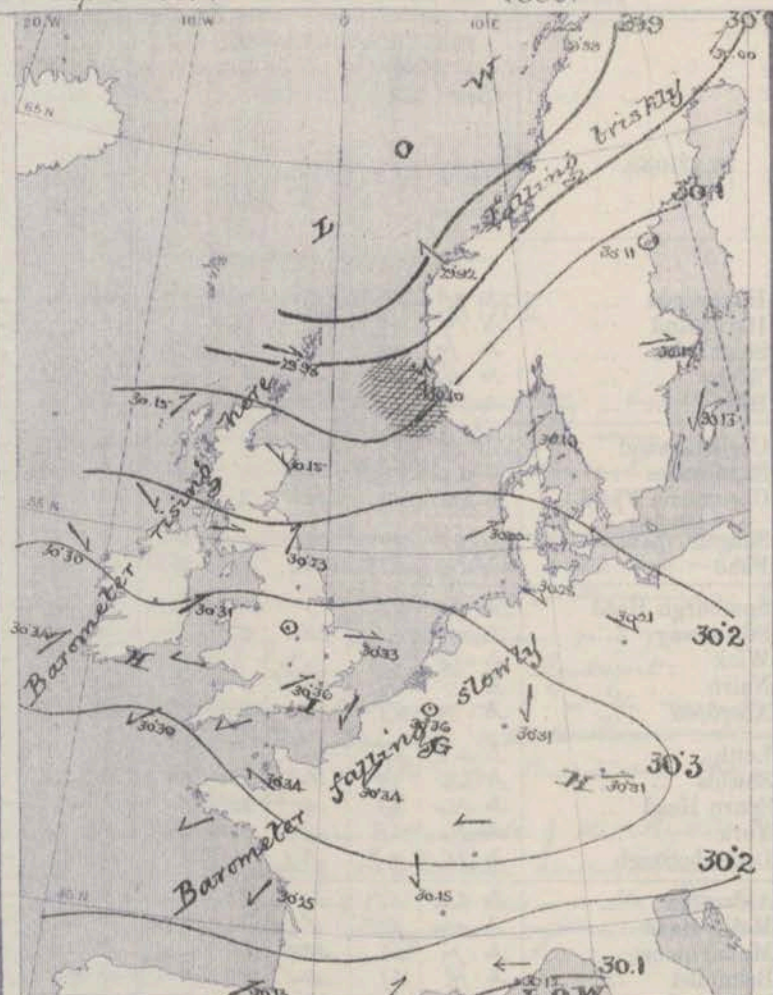
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years, 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.766
Stornoway	29.780
Wick	29.793
Nairn	29.809
Aberdeen	29.819
Leith	29.846
Shields	29.869
York	29.905
Loughborough	29.924
Ardrossan	29.850
Donaghadee	29.869
Holyhead	29.894
Liverpool	29.899
Parsonstown	29.904
Valencia	29.917
Roche's Point	29.915
Pembroke	29.913
Scilly	29.943
Jersey	29.955
Hurst Castle	29.960
Dover	29.941
LONDON	29.945
Oxford	29.935
Cambridge	29.931
Yarmouth	29.916



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.

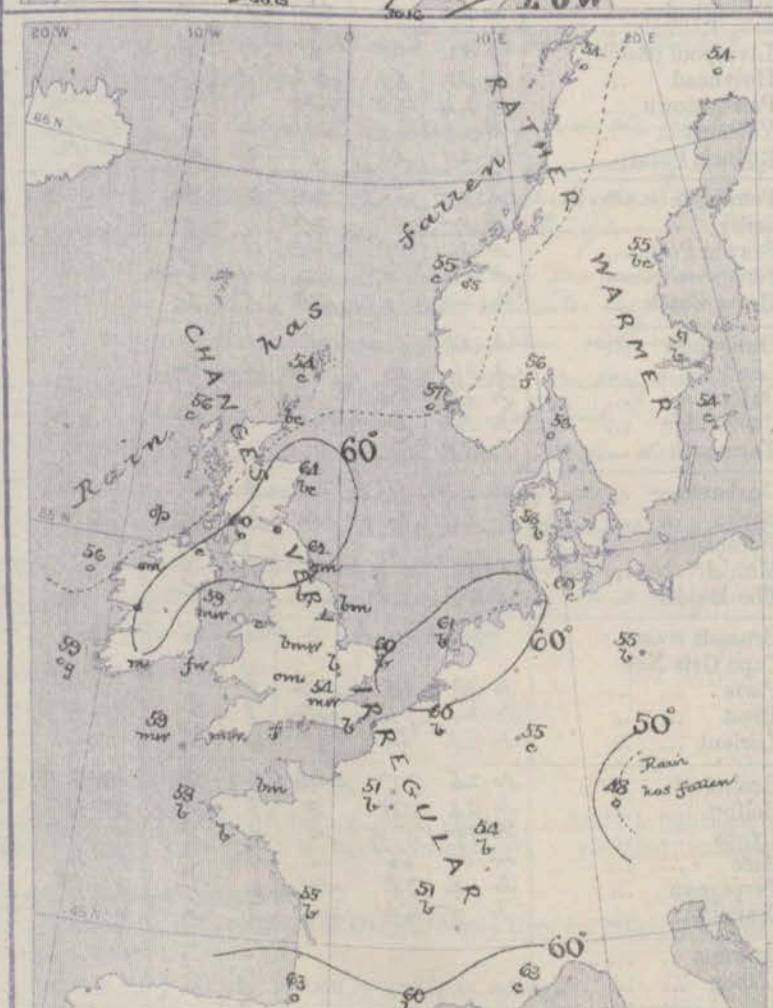
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of September.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily	Daily	at 8 a.m.		
	Max.	Min.	Dry.	Wet.	
Sumburgh Head	55.2	46.3	50.9	49.2	3.46
Stornoway	56.1	45.7	51.1	49.8	4.13
Wick	57.0	45.5	51.8	49.9	2.66
Nairn	59.0	46.8	51.2	48.8	2.73
Aberdeen	59.2	46.7	52.1	49.8	3.22
Leith	62.2	47.6	53.2	50.8	2.47
Shields	59.9	49.3	53.1	51.1	2.68
York	63.3	47.3	52.8	51.0	2.98
Loughborough	65.0	47.9	54.3	52.4	3.06
Ardrossan	69.7	49.6	53.5	51.3	3.87
Donaghadee	59.6	48.4	53.3	52.1	3.22
Holyhead	60.6	52.8	55.7	53.5	3.35
Liverpool	61.2	50.0	54.6	51.9	3.56
Parsonstown	61.6	47.5	53.1	51.1	3.49
Valencia	61.7	41.5	56.3	53.9	4.97
Roche's Point	61.9	51.0	55.4	53.2	4.39
Pembroke	60.2	55.1	56.2	53.8	3.89
Scilly	61.8	53.8	58.4	56.2	3.69
Jersey	65.2	54.9	59.8	57.1	3.51
Hurst Castle	64.2	52.2	57.2	55.8	3.59
Dover	62.9	53.0	57.9	55.3	2.86
LONDON	66.3	49.4	55.9	53.6	2.59
Oxford	63.8	49.1	54.2	52.3	2.61
Cambridge	65.5	48.1	54.4	52.9	2.48
Yarmouth	62.0	51.1	56.2	54.4	3.17

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, 30.5 in: and more, in an elongated anticyclone stretching from Ireland across England and the north of France to Germany.
 Lowest, 29.9 in: and less to the northwards of Scotland and westward of Norway, 30.1 in: and less, over the northern parts of the Mediterranean.
 Gradients moderate in the far north, slight elsewhere.
 Barometer rising in the west, falling in the north, steady in the east.

TEMPERATURE

Highest, 64° at Aberdeen, 63° at Nice and Biarritz, 62° at Hildes.
 Lowest, 48° at Munich, 51° at Paris, 54° at Edinburgh, 56° at Rome and Copenhagen.
 Its distribution is therefore very irregular. The daily maxima recorded over Great Britain yesterday varied from 70° to 76°. In London the highest was 75°.

WIND

Light and variable from the W. in Scotland and from between S. and E. in Norway; NE. to E. over the Channel and Bay of Biscay, NW. in Germany, very light and variable over England and Ireland.

WEATHER

Fair over all the northern parts of the United Kingdom and North Sea, misty or foggy at the English and Channel stations, dull in Ireland, very fine and bright over France.

SEA

Moderate in the North and at Valencia, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There is no indication of any important change at present.

FORECASTS

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

DISTRICTS.

FORECASTS.

- | | | |
|---|------------------|---|
| 0 | SCOTLAND NORTH | W ^{ly} winds, moderate; some showers. |
| 1 | SCOTLAND EAST | |
| 2 | ENGLAND N.E. | NW ^{ly} to W ^{ly} winds, light; fair as a whole. |
| 3 | ENGLAND EAST | |
| 4 | MIDLAND COUNTIES | Variable airs and Calms; foggy or misty at times, bright intervals. |
| 5 | ENGLAND SOUTH | |

DISTRICTS.

FORECASTS.

- | | | |
|----|---------------|--|
| 6 | SCOTLAND WEST | W ^{ly} winds, moderate; some showers. |
| 7 | ENGLAND N.W. | |
| 8 | ENGLAND S.W. | E ^{ly} to N ^{ly} winds, light; fine. |
| 9 | IRELAND NORTH | Very light breezes; fair, hazy or foggy at times. |
| 10 | IRELAND SOUTH | |

WARNINGS

NONE ISSUED

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND		WEA.	SEA		BAR.	THER.		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	30.32	66	58	W.S.W.	2	b	3		Holyhead ...	30.36	69	60	S.W.	2	b
Samburgh Head ...	30.20	64	59	W.S.W.	1	b	1		Valencia ...	30.26	62	60	S.E.	4	om
Stornoway ...	30.12	67	64	S.W.	5	b	4		Scilly ...	30.33	64	62	S.W.	4	0
Aberdeen ...	30.23	74	63	S.W.	3	b	2		Jersey ...	30.38	69	61	S.W.	4	b
Scields ...	30.30	69	63	S.E.	2	b	2		Dungeness ...	30.43	65	60	S.E.	1	b
Ardrossan ...	30.27	65	62	S.W.	1	b	0		London ...	30.43	72	62	S.E.	2	b
Main Hea. ...	30.19	67	62	S	4	b	1		Yarmouth ...	30.43	63	59	S.E.	3	b
Mullaghmore ...	30.19	67	61	S.E.	5	cm	3		Rocheport ...	30.28	61	66	S.W.	4	b
Belmullet ...	30.17	66	62	S.W.	5	c	*								

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

Weather very fine and bright over the British Islands, France, Spain, and Algeria, as well as at many of the Italian stations; foggy at Cagliari, Naples, and Rome, as well as in London and at York, hazy on our southwest coasts; very dull over northern, eastern, central, and southeastern Europe, with rain over Norway and Finland. Rain later in Norway, and slight falls in Scotland, the north of Ireland, and at Munich.

Temperature exceeding 70° at very few of the Spanish and Mediterranean stations; exceeding 60° in several parts of the British Islands, but below that value over the greater part of the Continent, and as low as (1) 47° at Bodö and Uleaborg, 48° at Haparanda, 49° at Kuopio; (2) 48° at Cracow, 50° at Lemberg, Breslau, and Munich, 52° at Prague. Raising to between 70° and 76° over Great Britain, and to upwards of 80° in the southwest and south of France.

Wind anticyclonic over Northwestern Europe, cyclonic in the southeast, east, and north: chiefly E³ at the southern stations, SE³ and S³ in the extreme east, but N³ over Sweden and the Baltic, NW³ over Germany, Austria and Hungary. Veering to S and SW in Ireland and Scotland later.

Barometer highest 30.2 ins. to 30.4 ins. and more, in a large anticyclone covering the British Islands and Northwestern Europe, lowest 29.6 ins. and less, in a large depression over Russia, about 300 ins. in another lying over Corsica. Falling over the United Kingdom later as a new disturbance advanced towards Norway from the southward.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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DAILY WEATHER REPORT.

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

Issued by the Meteorological Office, 65, Victoria Street, London. R. H. SCOTT, Secretary.																		
STATIONS.		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.	
		BAROM. Reading at 32° F. and Sea Level.	TEMP. Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea. (0 to 5.)	SHADE TEMP.		Amount of Rainfall.	
				Dirce.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirce.	Force. (0 to 12.)		Weather.	Max.		Min.
SCANDINAVIA.	Haparanda ...	29.87	54	SE	4	0	29.73	- 27	55	52	+ 1	SE	2	0	+	57	34	-
	Hernösand ...	29.90	55	SEW	4	0	29.85	- 26	54	48	- 1	N	2	0	+	64	46	-
	Stockholm ...	30.01	51	Z	0	0	29.86	- 31	55	53	+ 4	Z	0	0	+	68	43	-
	Wisby ...	30.04	48	N	2	0	29.89	- 24	54	52	0	W	4	0	+	57	45	-
	Bodö ...	29.71	54	SE	4	+	29.64	- 23	50	46	- 4	SE	4	4	+	55	41	0.20
	Christiansund	29.96	53	SE	7	0	29.83	- 09	50	48	- 5	W	8	5	5	57	50	0.24
	Skudesnaes ...	30.12	54	SE	2	0	30.02	- 08	55	54	- 2	N	4	3	3	63	40	-
	Christiania Fjord (Færder)	29.97	58	SEW	3	0	29.89	- 25	54	48	- 2	W	3	0	2	59	54	-
	Skagen (The Scaw)	30.01	58	SE	3	0	29.91	- 25	57	53	+ 1	W	4	0	3	64	53	-
	Fanö ...	30.13	57	N	2	0	30.05	- 14	58	55	0	W	4	0	+	61	57	-
BRITISH ISLANDS.	Snmburgh Head	30.09	52	W	2	0	29.91	- 07	53	50	- 1	W	3	0	3	59	48	-
	Stornoway ...	30.16	55	W	3	0	30.04	- 11	53	52	- 3	W	3	0	4	60	47	0.02
	Wick ...	30.17	54	W	2	0	30.04	- 09	54	52	- 3	S	3	0	3	61	47	0.02
	Nairn ...	30.18	58	SEW	1	0	30.08	- 08	52	49	- 4	W	1	0	1	64	47	-
	Aberdeen ...	30.22	55	S	2	0	30.12	- 03	53	49	- 11	SE	1	0	1	65	46	-
	Leith ...	30.21	65	W	1	0	30.17	- 01	52	49	- 10	W	2	0	+	70	47	-
	Shields ...	30.19	66	W	2	0	30.15	- 05	52	47	- 10	W	2	0	2	71	47	-
	Spurn Head ...	30.24	64	Z	0	0	30.19	- 11	59	56	- 1	N	2	0	1	71	56	-
	York ...	30.25	65	W	1	0	30.21	- 07	57	55	- 2	N	1	0	+	70	54	-
	Loughborough	30.24	68	W	1	0	30.22	- 11	57	56	+ 1	W	1	0	+	79	53	-
GERMANY & HOLLAND.	Ardrossan ...	30.24	60	W	2	0	30.18	- 02	56	52	- 4	W	3	0	2	65	45	-
	Malin Head ...	30.28	56	W	2	0	30.22	- 01	55	52	- 1	W	3	0	1	59	52	-
	Mullaghmore ...	30.30	55	W	3	0	30.26	- 00	55	52	- 4	W	4	0	2	62	49	-
	Belmullet ...	30.33	57	W	2	0	30.26	- 04	58	55	+ 2	W	4	0	+	60	49	-
	Donaghadee ...	30.26	57	E	3	0	30.25	- 00	54	53	- 7	W	3	0	1	65	53	-
	Liverpool (Bidston)	30.26	61	W	2	0	30.23	- 08	58	54	- 3	N	1	0	2	65	56	0.02
	Holyhead ...	30.28	59	SE	2	0	30.25	- 06	57	54	- 2	N	3	0	2	62	56	0.01
	Parsonstown ...	30.27	62	W	1	0	30.30	+ 01	49	48	- 11	Z	0	0	+	7	43	-
	Valencia ...	30.32	60	W	1	0	30.33	+ 01	57	53	- 2	N	1	0	+	65	52	-
	Roche's Point ...	30.28	63	W	2	0	30.29	- 03	55	50	- 5	N	3	0	3	65	48	-
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.28	58	W	2	0	30.23	- 11	59	59	+ 5	W	2	0	1	63	53	0.01
	Seilly ...	30.26	59	W	2	0	30.21	- 09	60	60	+ 1	W	2	0	1	61	55	-
	Prawle Point ...	30.27	58	W	2	0	30.22	- 12	54	53	- 7	W	0	0	0	65	48	-
	Jersey (St. Aubin's)	30.25	66	E	3	0	30.18	- 16	60	53	- 5	W	1	0	1	72	52	-
	Hurst Castle ...	30.29	64	S	2	0	30.20	- 14	60	56	+ 3	E	2	0	1	69	50	-
	Dungeness ...	30.27	66	Z	0	0	30.19	- 16	60	58	+ 5	Z	0	0	1	70	50	-
	London ...	30.25	68	SE	1	0	30.21	- 15	56	55	+ 2	W	1	0	+	74	49	-
	Oxford ...	30.25	64	SE	1	0	30.22	- 15	53	53	0	Z	0	0	+	77	49	-
	Cambridge ...	30.24	65	SE	1	0	30.20	- 15	56	55	- 3	Z	0	0	+	78	49	-
	Yarmouth ...	30.24	65	S	1	0	30.17	- 16	60	58	0	Z	0	0	2	68	54	-
PENIN. SULA.	Cuxhaven ...	30.24	60	W	2	0	30.16	- 12	60	59	0	W	3	0	+	67	59	-
	Berlin ...	30.18	61	Z	0	0	30.11	- 10	53	52	- 2	Z	0	0	+	66	52	-
	Wiesbaden ...	*	*	*	*	*	30.25	- 06	54	53	- 1	Z	0	0	+	68	48	-
	Munich ...	30.32	51	SE	2	0	30.30	- 01	48	47	0	SE	2	0	+	57	43	-
	The Helder ...	30.25	61	W	1	0	30.17	- 14	61	60	0	SE	1	0	1	66	55	0.12
	Brussels (9 a.m.)	*	*	*	*	*	30.22	- 14	62	59	+ 2	SE	1	0	+	71	52	-
	Cape Gris Nez	30.32	62	SE	2	0	30.24	- 12	60	57	+ 2	SE	1	0	1	70	57	-
	Paris ...	30.27	65	NE	2	0	30.22	- 12	53	52	+ 2	NE	1	0	+	7	49	-
	Brest ...	30.17	70	W	2	0	30.14	- 11	57	56	+ 1	E	3	0	3	65	49	-
	Lorient ...	30.18	70	NE	2	0	30.14	- 14	59	56	+ 4	E	3	0	1	75	55	-

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

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

WEATHER CHARTS

Wednesday

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—

$\bullet \longrightarrow$ = forces above 10 ; $\bullet \longrightarrow \bullet$ = forces 8 to 10.

→ forces 5 t

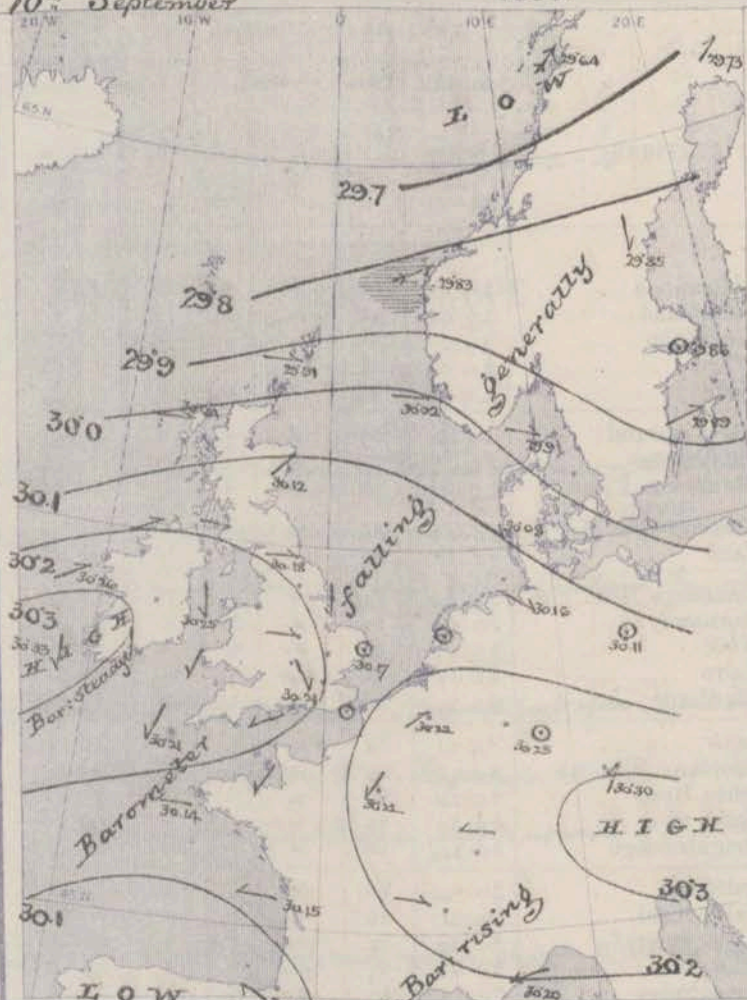
SEA DISTURBANCE—Where considerable, is shown thus:

 = Rough  = High

MEAN HEIGHT OF THE BAROMETER

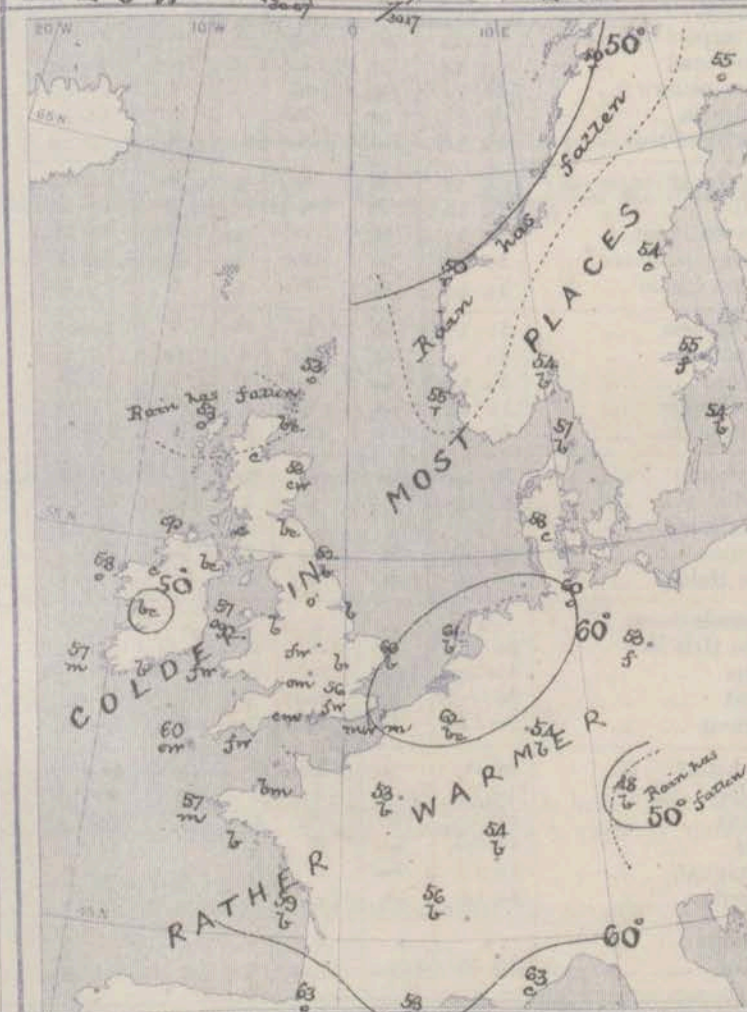
at 8.0 a.m. for the month of September.

During the 15 Years: 1871—1885.



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

MEANS OF TEMPERATURE IN SHADE,
AND RAINFALL.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.2 ins. to 30.3 ins. and more, in anticyclones lying over Ireland, England, Germany, and the east of France.
 Lowest, 29.7 ins. and less, over England; 29.9 ins. and less, over the southern half of Sweden; 30.1 ins. and less, over the Spanish Peninsula.
 Gradients slight. Barometer inclined to continue falling, except in the south of France.

TEMPERATURE

Highest, 63° at Nice and Biarritz, 61° at the Helder, 60° at Skilly, Yarmouth and Cuxhaven.
 Lowest, 46° at Munich, 50° at Rode and Christiansund, 52° at Dantz and Shields, 53° at Paris.
 In London the temperature is 56°. The daily maxima recorded over Great Britain yesterday were, in many cases, as high as 70° to 75°.

WIND

Blowing a gale from S.W. over the northern half of Norway; light W. and S.W. at our northern stations, light and variable from the W. over Ireland and England, light to moderate from E. in the west of France and over the Bay of Biscay.

WEATHER

Dull and rainy in the western parts of Norway, cloudy in Scotland, fine generally over Ireland, England, France and Germany, with heavy dew, and fog in places.

SEA

Very little disturbed.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

No very decided change is indicated beyond some freshening of the W. wind in Scotland, with showers at the western and northern stations.

FORECASTS

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

DISTRICTS.

FORECASTS.

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

W. and S.W. winds, some showers.
 Variable and S.W. airs; fine generally, foggy at times.
 Calms and Variable airs; fine, foggy 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.

Varying light breezes; fine generally, foggy at times.

WARNINGS

NONE ISSUED

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND				SEA		BAR:		THER:		WIND				SEA	
		D.	W.	D.	F.	WEA						D.	W.	D.	F.	WEA			
Skudesnaes ...	30.09	63	59	Sw	4	of	4			Holyhead ...	30.31	61	59	Sw	4	om	3		
Sumburgh Head ...	30.08	57	53	W	3	bc	3			Valencia ...	30.33	63	60	NW	1	c v	1		
Stornoway ...	30.18	59	56	Sw	4	c	4			Scilly ...	30.30	60	60	NNE	3	m	1		
Aberdeen ...	30.21	57	54	SE	2	c	2			Jersey ...	30.31	70	63	SSE	3	b	3		
Shields ...	30.21	71	63	W	2	c	2			Dungeness ...	30.31	70	63	SSW	2	b	1		
Ardrossan ...	30.22	64	61	NW	3	bc	2			London ...	30.32	68	62	W	1	b m	x		
Mulin Head ...	30.25	58	55	NW	3	o	1			Yarmouth ...	30.29	66	62	SSE	3	b	2		
Mullaghmore ...	30.30	60	56	WNW	5	o	2			Rochefort ...	30.22	82	64	NNE	5	b	x		
Belmullet ...	30.36	59	52	WNW	1	o	x												

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

Weather fine and bright over the greater part of Western and Southern Europe, dull, foggy or misty at many stations over the British Islands, cloudy in the north; dull and unsettled over Northern and Eastern Europe as a whole, with rain at a few stations. Considerable rain in Norway later, fair weather in most other places, heavy dew at night.

Temperature still exceeding 70° at some of the Mediterranean stations and exceeding 60° in the south of France, the north of Spain, and some parts of the British Islands, much lower elsewhere (1) 48° at Munich, Cracow, and Breslau, 49° at Kiev, 50° at Lemberg, Ruda Bork and Hermanstadt; (2) 43° at Uleaborg, 48° at Kuopio, 49° at Lango, and 50° at Kilingfors and Moscow. Rising to between 70° and 79° over many part of the British Islands and France later.

Wind light and variable from the NW over Scotland and the north of Ireland, from S and SE in Norway; N over the Baltic, NW over Germany and Austria, NE over France and Spain, E over the Bay of Biscay. No important alteration later.

Barometer highest, 30.2 ins. to 30.3 ins. and more, over Ireland, England, Holland, Germany, France, and the Bay of Biscay; lowest, 29.9 ins. and less, off the west of Norway, and in a large depression over the Baltic Provinces and Western Siberia. Falling over Scandinavia later, very 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 *Thursday, 11th September, 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.					5 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea.	SHADE TEMP.		Amount of Rainfall.	
	Reading at 32° F. and Sea Level.	Dry.	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 ...	29.63	51	Z	0	0	29.50	- 23	50	50	- 5	NE	2	r	*	59	50	0.12	
Hernösand ...	29.64	50	Z	0	0	29.48	- 37	50	50	- 4	Z	0	o	*	61	46	-	
Stockholm ...	29.68	55	Z	0	0	29.52	- 34	52	49	- 3	W	4	b	*	61	49	-	
Wisby ...	29.70	54	W	3	6	29.60	- 29	53	51	- 1	W	4	b	*	59	45	-	
Bodö ...	29.58	46	W	2	c	29.35	- 09	49	45	- 1	ESE	1	b	1	52	45	0.16	
Christiansund	29.58	48	ESE	7	r	29.62	- 21	48	45	- 2	W	8	r	6	53	45	0.67	
Skudesnaes ...	29.86	54	W	5	0	29.82	- 20	51	46	- 4	W	1	o	2	53	46	-	
Christiania Fjord (Fæder)	29.74	58	W	5	6	29.64	- 25	52	44	- 2	W	4	b	2	61	52	-	
Skagen (The Scaw)	29.83	56	W	5	6	29.66	- 25	55	52	- 2	W	5	b	4	61	54	-	
Fanö ...	29.93	53	W	1	6	29.84	- 24	57	54	- 1	W	5	c	*	61	50	0.04	
BRITISH ISLANDS.																		
Sumburgh Head	29.85	50	W	2	c	29.87	- 04	48	46	- 5	Z	0	o	1	55	48	0.07	
Stornoway ...	29.96	54	W	3	0	29.98	- 06	54	53	+ 1	W	4	o	4	55	50	0.10	
Wick ...	29.95	52	W	2	0	29.94	- 10	54	53	0	W	4	b	3	55	50	0.15	
Nairn ...	29.95	56	W	3	0	29.94	- 14	55	51	+ 3	W	4	b	3	60	51	0.02	
Aberdeen ...	29.99	57	SSW	2	0	29.95	- 17	54	53	+ 1	W	4	o	2	62	51	0.07	
Leith ...	30.06	58	W	2	c	29.98	- 19	61	57	+ 9	W	3	b	*	62	52	-	
Shields ...	30.11	60	W	2	b	29.99	- 19	58	55	+ 6	W	4	o	2	62	50	-	
Spurn Head ...	30.15	57	ESE	3	b	30.07	- 12	57	54	- 2	W	4	o	3	71	52	-	
York ...	30.16	61	W	1	b	30.07	- 14	58	55	+ 1	W	3	o	*	67	50	-	
Loughborough	30.18	62	W	3	o	30.15	- 07	55	52	- 2	W	3	c	*	69	47	-	
Ardrossan ...	30.10	57	W	3	o	30.07	- 11	56	55	0	W	3	r	2	61	55	0.06	
Malin Head ...	30.12	55	W	4	o	30.13	- 09	55	53	0	W	5	o	3	60	54	0.02	
Mullaghmore ...	30.20	57	W	5	c	30.22	- 04	57	55	+ 2	W	5	o	3	60	54	-	
Belmullet ...	30.22	58	W	2	c	30.27	+ 01	56	56	- 2	W	2	o	*	60	55	0.05	
Donaghadee ...	30.16	60	W	3	c	30.14	- 11	58	56	+ 4	W	3	o	1	64	52	-	
Liverpool (Bidston)	30.21	56	W	2	b	30.15	- 08	58	56	0	W	5	o	4	61	53	-	
Holyhead ...	30.23	56	W	1	b	30.19	- 06	61	58	+ 4	W	4	b	3	61	52	-	
Parsonstown ...	30.24	59	W	1	b	30.25	- 05	59	57	+ 10	W	1	c	*	61	46	-	
Valencia ...	30.29	60	W	2	c	30.32	- 01	59	58	+ 2	W	1	o	1	63	55	-	
Roche's Point ...	30.25	62	W	3	c	30.27	- 02	59	56	+ 4	W	3	c	3	64	51	-	
Pembroke (St. Ann's Hd.)	30.24	56	NE	2	b	30.24	+ 01	57	56	- 2	W	2	b	1	64	53	-	
Scilly ...	30.22	59	N	4	o	30.26	+ 05	60	59	0	W	2	b	0	62	56	-	
Prawle Point ...	30.17	62	W	2	b	30.25	+ 03	61	57	+ 7	W	3	b	1	71	52	-	
Jersey (St. Aubin's)	30.14	67	N	3	b	30.23	+ 05	62	60	+ 2	W	3	o	3	77	59	-	
Hurst Castle ...	30.17	66	W	1	b	30.24	+ 04	57	55	- 3	W	1	b	0	72	51	-	
Dungeness ...	30.13	64	W	2	b	30.17	- 02	55	53	- 5	W	2	m	0	71	51	-	
London ...	30.13	67	W	2	c	30.18	- 03	57	52	+ 1	W	1	b	*	77	50	-	
Oxford ...	30.19	59	W	1	b	30.20	- 02	55	52	+ 2	W	1	b	*	72	49	-	
Cambridge ...	30.15	66	N	1	o	30.16	- 04	53	53	+ 2	W	1	b	*	76	45	-	
Yarmouth ...	30.14	60	W	3	c	30.11	- 06	53	52	- 5	W	2	b	2	64	49	-	
GERMANY & HOLLAND.																		
Cuxhaven ...	30.07	60	W	2	b	29.99	- 17	59	57	- 1	W	3	e	*	64	58	-	
Berlin ...	30.08	59	W	2	b	29.93	- 18	58	54	+ 5	W	3	c	*	63	52	-	
Wiesbaden ...	*	*	*	*	*	30.10	- 15	57	55	+ 3	Z	0	c	*	73	52	-	
Munich ...	30.28	53	Z	0	b	30.21	- 09	53	50	+ 5	W	5	b	*	63	48	-	
The Helder ...	30.12	60	W	1	c	30.06	- 11	59	55	- 2	W	2	b	3	64	57	-	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.)	*	*	*	*	*	30.15	- 07	57	57	- 5	W	1	c	*	75	52	-	
Cape Gris Nez	30.18	64	S	3	b	30.18	- 06	59	58	- 1	W	2	m	1	72	57	-	
Paris ...	30.14	68	NE	2	b	30.18	- 04	52	51	- 1	NE	1	b	*	78	48	-	
Brest ...	?	64	E	4	b	?	?	59	58	+ 2	NE	3	o	3	71	50	-	
Lorient ...	30.09	76	Z	0	b	30.19	+ 05	60	57	+ 1	NE	2	b	1	81	59	-	
Rochefort ...	30.14	68	W	3	b	30.17	+ 02	62	60	+ 3	SE	3	b	*	82	54	-	
Belfort ...	?	59	ESE	1	b	30.19	- 01	59	48	+ 5	ESE	1	b	*	70	46	-	
Lyons ...	30.15	68	S	2	b	30.25	+ 04	59	56	+ 3	ESE	1	b	*	76	53	-	
Nice ...	30.23	69	SE	1	b	30.26	+ 06	61	50	- 2	E	2	b	1	72	55	-	
Perpignan ...	30.13	67	NE	2	b	30.21	+ 04	63	61	+ 5	Z	0	b	*	73	56	-	
Biarritz ...	30.04	69	ESE	3	b	30.13	+ 06	66	63	+ 3	ESE	2	m	1	77	63	-	
PENINSULA.																		
Corunna ...	*	*	*	*	*	30.13	+ 09	62	58	- 3	Z	0	b	2	77	59	-	
Lisbon ...	30.03	65	W	4	b	30.13	+ 09	62	58	- 3	Z	0	b	2	77	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 11th September,

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:

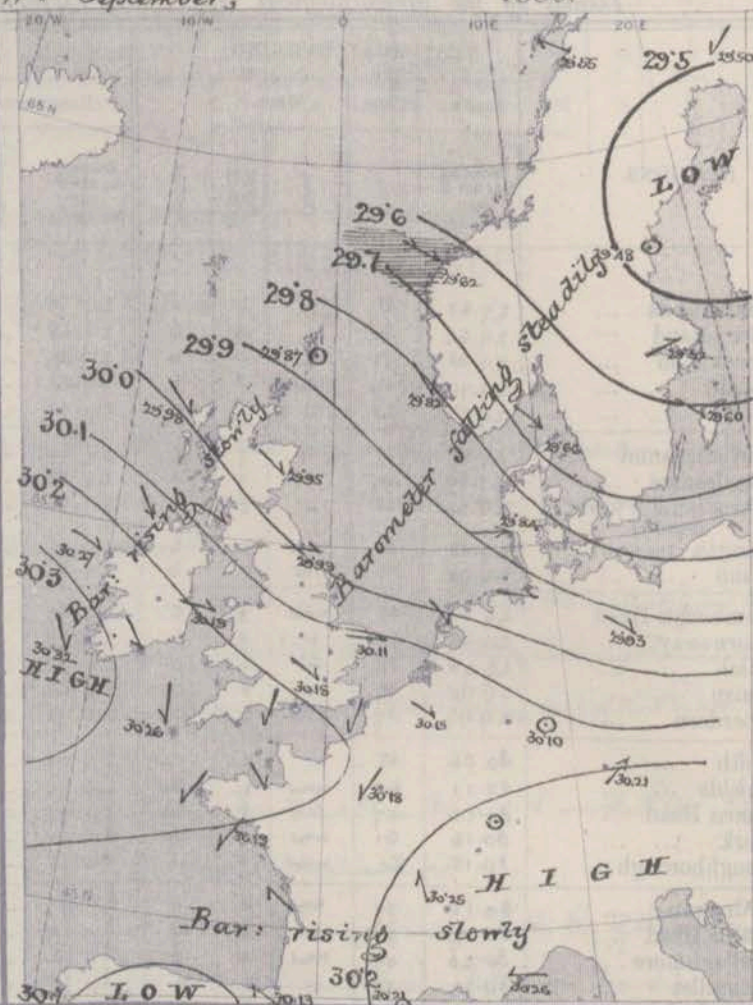
— = Rough. — = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.766
Stornoway	29.780
Wick	29.793
Nairn	29.809
Aberdeen	29.819
Leith	29.846
Shields	29.869
York	29.905
Loughborough	29.924
Ardrossan	29.850
Donaghadee	29.869
Holyhead	29.894
Liverpool	29.899
Parsonstown	29.904
Valencia	29.917
Roche's Point	29.915
Pembroke	29.913
Scilly	29.913
Jersey	29.955
Hurst Castle	29.960
Dover	29.941
LONDON	29.945
Oxford	29.935
Cambridge	29.931
Yarmouth	29.916



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.

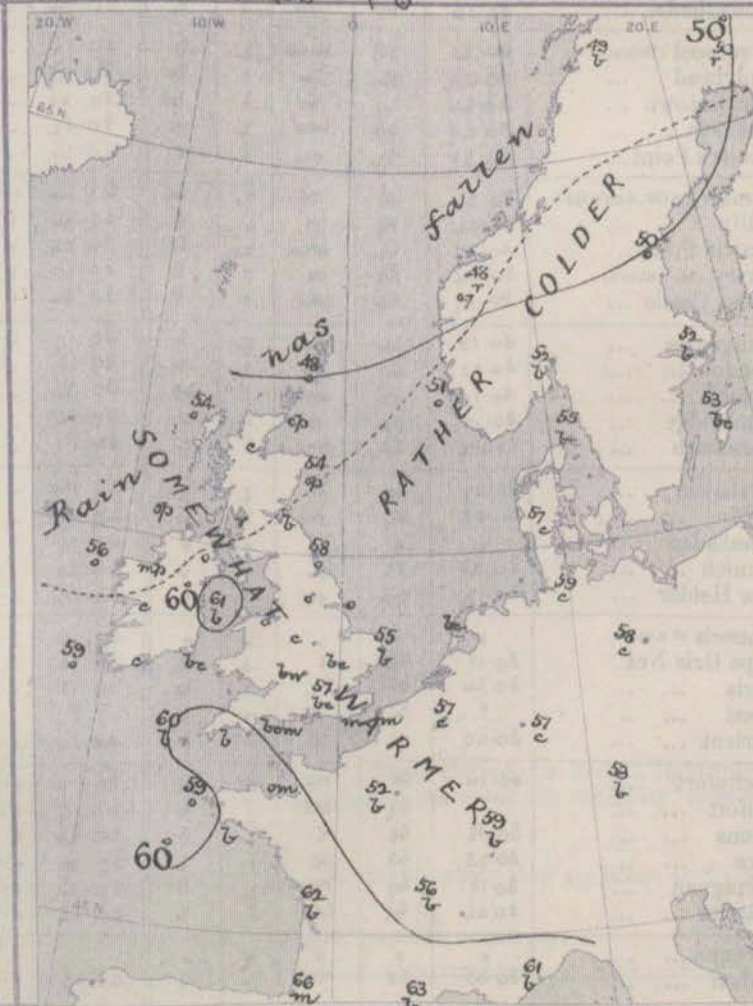
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of September.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	55.2	46.3	50.9	49.2	3.46
Stornoway.....	55.1	45.7	51.1	49.8	4.13
Wick.....	57.6	45.5	51.8	49.9	2.60
Nairn.....	59.0	46.8	51.2	48.8	2.73
Aberdeen.....	59.2	46.7	52.1	49.8	3.22
Leith.....	62.2	47.6	53.2	50.8	2.47
Shields.....	59.9	49.3	53.1	51.1	2.58
York.....	63.3	47.3	52.8	51.0	2.98
Loughborough.....	65.0	47.9	54.3	52.4	3.06
Ardrossan.....	59.7	49.6	53.5	51.3	3.87
Donaghadee.....	59.6	48.8	53.3	52.1	3.22
Holyhead.....	60.6	52.8	55.7	53.5	3.35
Liverpool.....	61.2	50.9	54.5	51.9	3.55
Parsonstown.....	64.6	47.5	53.1	51.1	3.49
Valencia.....	64.7	51.5	56.3	53.9	4.87
Roche's Point.....	61.9	51.0	53.4	53.2	4.39
Pembroke.....	60.2	53.1	56.2	53.8	3.89
Scilly.....	64.8	54.8	58.4	56.2	3.69
Jersey.....	65.2	54.9	59.8	57.1	3.51
Hurst Castle.....	64.2	52.2	57.2	55.8	3.35
Dover.....	62.9	53.0	57.9	55.3	2.86
LONDON.....	65.3	49.4	55.9	53.6	2.59
Oxford.....	63.8	49.1	54.2	52.3	2.91
Cambridge.....	65.5	48.1	54.4	52.9	2.48
Yarmouth.....	62.0	51.1	56.2	54.4	3.17

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 30.3 ins: over Ireland, the west and south of England, France and South Germany.
 Lowest, 29.5 ins: and less, over Sweden.
 Gradients moderate in the north and east, slight in the west and south.
 Barometer inclined to rise again at our western and southern stations, falling over Scandinavia.

TEMPERATURE

Highest, 66° at Bremen, 63° at Perpignan, 61° at Leith, 60° at Scilly.
 Lowest, 46° at Fushimund and Sumburgh Head, 51° at Rhodemas, 52° at Paris, 53° at Munich.
 It rose to 77° in London and at Jersey yesterday, but fell short of 65° at the Irish and Scotch stations, and only just touched 55° at Sumburgh Head and Stromness.

WIND

NW² at all our northern and western stations, and moderate in force, W² to SW² light, in many parts of England, N² and variable in the Channel, NE² to E² in the west of France. In Holstein and Germany it is W².

WEATHER

Cloudy or overcast in Ireland, Scotland and the northeast of England, fine in the west of England and over France.
 Rain fell yesterday at most of our northern and northern stations, and the falls continue at several stations.

SEA

Moderate in the Irish and at Liverpool, smooth generally elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The general distribution of pressure is of a less settled type than that recently experienced, but the rain in the north does not seem likely to reach our southern counties today.

FORECASTS

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

DISTRICTS.

FORECASTS.

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

NW² breezes, moderate; some showers

Same as No 5

W² and NW² breezes, moderate and light; some local showers, fair generally.

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.

NW² breezes, light; fair generally

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.95	58	53	W	6	O	3		Holyhead ...	30.24	59	54	W	1	6
Sumburgh Head ...	29.86	58	51	W	3	C	2		Valencia ...	30.32	63	58	W	1	0
Stornoway ...	29.98	55	54	W	4	O	4		Scilly ...	30.21	61	59	W	4	C
Aberdeen ...	30.05	59	52	W	3	C	1		Jersey ...	30.17	76	65	W	2	6
Shields ...	30.14	60	53	W	3	C	2		Dungeness ...	30.17	70	65	W	2	6
Ardrossan ...	30.14	61	57	W	3	C	2		London ...	30.14	76	66	W	2	6
Malin Head ...	30.14	60	55	W	5	O	2		Yarmouth ...	30.16	63	59	W	3	6
Mullaghmore ...	30.23	60	55	W	5	C	4		Rochefort ...	30.16	78	65	W	0	6
Belmullet ...	30.24	58	55	W	3	O	*								

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

Weather in morning fine and bright over the greater part of Western Europe, but with fog, mist, and heavy dew in many parts of England; dull and unsettled over Germany, Russia and Northern Europe, with rain at the Norwegian stations, as well as in some parts of Hungary and the south of Russia. Rain later over Scandinavia, and some showers in the northwestern and northern parts of the British Islands.

Temperature falling in the northwest and north; morning readings as low as (1.) 42° at Archangel, 47° at Kuopio, 48° at Uleaborg, and 50° at Helsingfors, Rode, and Christiansund; (2.) 48° at Munich, and Breslau, 49° at Buda-Pesth, 50° at Hermannstadt, Warsaw, and Kiev. Exceeding 70° at a few of the Mediterranean stations only, and exceeding 60° over the greater part of Spain. Rising later to between 70° and 77° over the south of England and south of France, and to upwards of 80° at Brest and Saint.

Wind light and anticyclonic over Ireland, England, France, and Germany; NE³ over Spain, E² over the Bay of Biscay, W⁴ over northern parts of our Islands, SW⁴, strong to a gale, in Norway, and chiefly light from NW over Germany and Austria. W⁴ wind becoming more general over the British Islands later.

Barometer highest, 30.1 ins. to 30.3 ins. in anticyclonic systems covering the British Islands, France, Germany, Austria, and Northern Italy. Lowest, 29.7 ins. and less, over the north of Scandinavia, 29.8 ins. and less, in a depression over Russia, 30.1 ins. and less over Spain. Depression in far north moving southeastwards later, that over Spain growing slightly deeper.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for *Friday, 12th September, 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.	SHADE TEMP.		Amount of Rainfall.		
				Reading at 32° F. and Sea Level.	Dry.		Direct.	Force, (0 to 12.)	Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.		Direct.	Force, (0 to 12.)		Max.	Min.
SCANDINAVIA.	Haparanda ...	29.52	54	NE	2	0	29.62	+12	49	49	-1	NE	4	1	54	48	0.39		
	Hernösand ...	29.52	50	N	4	0	29.69	+21	50	46	0	N	6	0	55	43	0.12		
	Stockholm ...	29.52	46	WNW	2	6	29.54	+02	47	46	-5	WNW	6	1	63	41	0.71		
	Wisby ...	29.56	55	NE	4	6c	29.54	-06	50	48	-3	N	8	1	59	?	0.24		
	Bodö ...	29.70	49	WNW	2	C	29.81	+16	49	47	0	W	4	1	52	45	0.12		
	Christiansund	29.89	48	WNW	5	T	30.00	+11	48	46	0	SW	3	0	50	46	0.47		
	Skudesnaes ...	29.97	50	NW	4	6c	30.04	+22	52	46	+1	WNW	2	0	54	46	-		
	Christiania Fjord (Fæder)	29.71	57	WNW	5	C	29.90	+26	53	45	+1	WNW	5	6	61	50	-		
	Skagen (The Scaw)	29.75	55	WSW	1	6	29.90	+14	55	51	0	NNE	4	6	61	50	-		
	Fanö ...	29.86	52	NW	4	6	29.99	+13	53	51	-2	NW	4	6	61	48	0.12		
BRITISH ISLANDS.	Sumburgh Head	30.06	49	W	0	6c	30.02	+15	54	54	+6	W	3	1	54	43	0.05		
	Stornoway ...	30.12	55	NW	3	0	30.14	+16	56	55	+2	W	4	0	57	52	0.08		
	Wick ...	30.11	51	WNW	2	0	30.14	+23	58	54	+4	NW	2	6c	58	50	0.03		
	Nairn ...	30.12	56	NW	2	C	30.15	+21	59	55	+4	NW	3	C	61	52	-		
	Aberdeen ...	30.13	56	WNW	3	C	30.19	+24	58	54	+4	W	1	CW	60	50	0.01		
	Leith ...	30.16	62	W	3	6	30.23	+25	59	55	-2	W	1	6	69	51	-		
	Shields ...	30.12	60	NE	1	0	30.23	+24	55	52	-3	W	2	6	68	47	-		
	Spurn Head ...	30.12	59	N	3	6c	30.25	+18	54	52	-3	W	2	6	64	52	-		
	York ...	30.15	61	WNW	1	6	30.27	+20	51	50	-7	WNW	1	6	68	54	-		
	Loughborough	30.20	60	W	3	C	30.29	+14	52	50	-3	W	1	6m	65	42	-		
GERMANY & HOLLAND.	Ardrossan ...	30.20	58	WNW	3	C	30.25	+18	57	54	+1	W	3	0	62	54	-		
	Malin Head ...	30.25	56	WNW	3	Op	30.28	+15	54	52	-1	SW	1	0	57	54	0.01		
	Mullaghmore ...	30.30	57	WNW	4	Op	30.30	+08	53	52	-4	S	1	0	59	53	0.02		
	Belmullet ...	30.32	57	WNW	2	0	30.29	+02	55	53	-1	WNW	1	0	59	53	-		
	Donaghadee ...	30.27	58	W	3	0	30.31	+17	56	54	-2	NNE	3	0	61	53	-		
	Liverpool (Bidston)	30.22	58	WNW	4	C	30.30	+15	57	54	-1	NW	3	0	62	56	-		
	Holyhead ...	30.26	58	NW	2	6	30.31	+12	58	55	-3	N	1	Op	64	55	-		
	Parsonstown ...	30.28	65	W	0	6	30.31	+06	55	53	-4	W	0	Op	?	49	-		
	Valencia ...	30.34	59	WNW	1	0	30.29	-03	56	55	-3	W	0	0	64	49	-		
	Roche's Point...	30.30	61	WNW	2	6	30.32	+05	59	56	0	ENE	2	C	65	52	-		
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.28	60	NW	1	6	30.31	+07	58	56	+1	N	2	C	62	55	-		
	Scilly ...	30.28	60	WNW	3	0	30.25	-01	60	58	0	ENE	3	6m	62	55	-		
	Prawle Point ...	30.25	60	WNW	3	6	30.29	+04	61	58	0	ENE	2	C	70	53	-		
	Jersey (St. Aubin's)	30.24	63	WNW	3	6m	30.30	+07	63	58	+1	NE	4	6m	69	57	-		
	Hurst Castle ...	30.21	67	NW	2	6	30.30	+06	56	54	-1	N	3	6m	71	50	-		
	Dungeness ...	30.15	65	W	4	C	30.26	+09	56	54	+1	N	1	6m	69	48	-		
	London ...	30.18	65	NW	3	C	30.29	+11	54	52	-3	W	0	6m	73	48	-		
	Oxford ...	30.25	60	NW	3	C	30.30	+10	54	52	-1	NW	2	6m	69	48	-		
	Cambridge ...	30.17	61	WNW	1	6	30.29	+13	53	52	-5	NW	1	6	71	44	-		
	Yarmouth ...	30.17	63	NW	3	6c	30.24	+13	57	55	+2	NW	2	6	64	50	-		
PENINSULA.	Cuxhaven ...	29.91	57	W	5	T	30.04	+05	57	52	-2	N	5	6	58	56	-		
	Berlin ...	29.89	55	W	3	0	29.93	-00	51	49	-7	WNW	4	C	64	48	0.12		
	Wiesbaden ...	*	*	*	*	*	30.15	+05	55	54	-2	NW	4	6c	70	55	-		
	Munich ...	30.12	62	W	5	C	30.17	-04	53	52	0	NW	4	0	68	52	0.24		
	The Helder ...	30.07	59	NW	3	C	30.19	+13	58	54	-1	WNW	2	C	61	55	-		
	Brussels (9 a.m.)	*	*	*	*	*	30.23	+08	59	56	+2	NNE	2	C	70	52	-		
	Cape Gris Nez	30.23	63	NW	4	0	30.24	+06	59	56	0	NE	4	C	66	55	-		
	Paris ...	30.18	66	NW	1	6	30.26	+08	56	55	+4	NW	1	0	?	51	-		
	Brest ...	30.22	66	NE	3	6	30.23	?	57	57	-2	ENE	2	m	77	50	-		
	Lorient ...	30.24	69	NE	2	6	30.23	+04	56	55	-4	ENE	3	6	79	54	-		

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

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

WEATHER CHARTS

for 8 a.m. on

Friday, 12th September,

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:

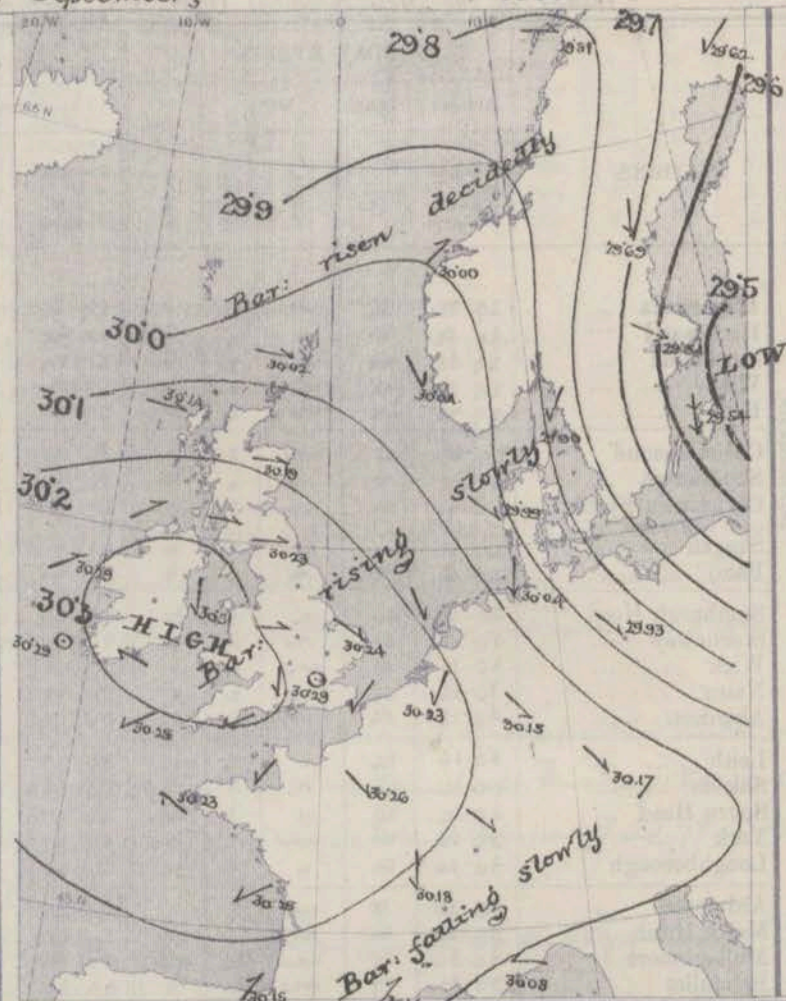
☼ = Rough. ☼ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.766
Stornoway	29.780
Wick	29.793
Nairn	29.809
Aberdeen	29.819
Leith	29.846
Shields	29.869
York	29.905
Loughborough	29.924
Ardrossan	29.850
Donaghadee	29.869
Holyhead	29.894
Liverpool	29.899
Parsonstown	29.904
Valencia	29.917
Roche's Point	29.915
Pembroke	29.913
Selly	29.943
Jersey	29.955
Hurst Castle	29.960
Dover	29.941
LONDON	29.945
Oxford	29.935
Cambridge	29.931
Yarmouth	29.916



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.

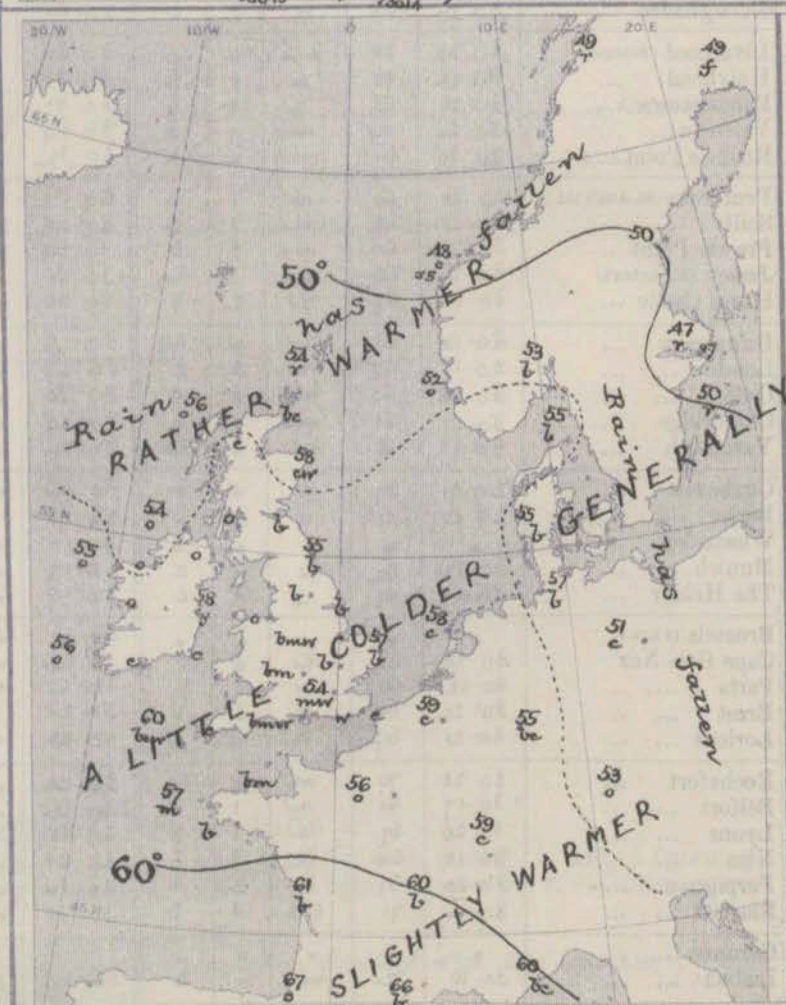
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of September.)

STATIONS.	TEMPERATURE.				RAINFALL (inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	53.2	40.3	50.9	49.2	3.46
Stornoway.....	56.1	45.7	51.1	49.8	4.13
Wick.....	57.6	45.5	51.8	49.9	2.60
Nairn.....	59.0	46.8	51.2	48.8	2.73
Aberdeen.....	59.2	46.7	52.1	49.8	3.22
Leith.....	62.2	47.6	53.2	50.8	2.47
Shields.....	59.9	49.3	53.1	51.1	2.58
York.....	63.3	47.3	52.8	51.0	2.98
Loughborough.....	63.0	47.9	54.3	52.4	3.06
Ardrossan.....	59.7	49.6	53.5	51.3	3.87
Donaghadee.....	59.6	48.8	53.3	52.1	3.22
Holyhead.....	60.6	42.8	55.7	53.5	3.35
Liverpool.....	61.3	50.9	54.5	51.9	3.56
Parsonstown.....	61.6	47.5	55.1	51.1	3.49
Valencia.....	61.7	51.5	56.3	53.9	4.87
Roche's Point.....	64.9	51.0	55.4	53.2	4.39
Pembroke.....	60.2	55.1	56.2	53.8	3.89
Selly.....	61.8	54.8	58.4	56.2	3.69
Jersey.....	65.2	54.9	59.8	57.1	3.51
Hurst Castle.....	64.2	52.2	57.2	55.8	3.55
Dover.....	62.9	53.0	57.9	55.3	2.86
LONDON.....	60.3	49.4	55.9	53.6	2.39
Oxford.....	63.8	49.1	54.2	52.3	2.91
Cambridge.....	65.5	48.1	54.4	52.9	2.48
Yarmouth.....	62.0	51.1	56.2	54.4	3.17

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 30.3 ins. and more, over the British Islands and France.
Lowest, 29.6 ins. and less, in a depression over the Baltic and Gulf of Genoa.
Gradients very slight over our Islands, somewhat steeper over Scandinavia, Denmark, and the Sound.
Barometer inclined to fall a little on our eastern coasts, but rising elsewhere—most in the north and northeast.

TEMPERATURE

Highest, 68° at Lisbon, 67° at Biarritz, 65° at Jersey, 60° at Ballycroy, and Nice.
Lowest, 47° to 50° over the greater part of Scandinavia, 51° at Berlin, 53° at Munich; 51° to 54° over the inland parts of England.
The daily maxima recorded yesterday were below 70° in most places, but touched 71° at Lambeth and 73° in London.

WIND

Light SW^{ly} in Norway, W^{ly} over Scotland, NW^{ly} over England, N^{ly} to E^{ly} in the Channel—NE^{ly} over the Bay of Biscay.
 In Sweden the wind was N^{ly}, strong to a gale.

WEATHER

Dull, squally and rainy in Sweden and at Rode—Fair over our Islands generally, but with fog or haze in several places.—Very fine over France and the Bay of Biscay.

SEA

Moderate at Stornoway and the Scaw, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

No important change is indicated.

FORECASTS

For the 24 hours ending at NOON on 13TH SEPT. 1890.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	W ^{ly} winds, moderate; fair as a whole.
1	SCOTLAND EAST	
2	ENGLAND N.E.	NW ^{ly} and Varying breezes, very light; fine, fog or haze at times.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	NW ^{ly} and N ^{ly} airs and Calms.; fine, local fogs at times.
5	ENGLAND SOUTH	

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	Same as No. 0.
7	ENGLAND N.W.	
8	ENGLAND S.W.	N ^{ly} (NW to NE) airs; fine generally, fog at times.
9	IRELAND NORTH	
10	IRELAND SOUTH	Variable airs and Calms; fine, local fogs.

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	53	46	NW	6	c	4		Holyhead ...	30.25	61	58	WNW	3	3
Sumburgh Head ...	29.98	52	47	NW	1	b	1		Valencia ...	30.34	63	60	NW	2	2
Stornoway ...	30.08	56	55	NW	14	c	4		Scilly ...	30.28	62	60	NW	3	0
Aberdeen ...	30.07	58	53	NW	4	cq p	3		Jersey ...	30.24	68	62	NW	3	3
Shields ...	30.06	67	58	N	3	c	2		Dungeness ...	30.14	68	62	N	4	3
Ardrossan ...	30.16	60	54	WNW	14	bc	3		London ...	30.15	71	62	N	3	3
Malin Head ...	30.22	57	55	NW	3	o	2		Yarmouth ...	30.09	64	58	WNW	5	2
Mullaghmore ...	30.29	59	57	NW	4	ofm	2		Rocheport ...	30.27	78	68	NW	2	2
Belmullet ...	30.31	59	57	WNW	2	o	*								

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

Weather fine and bright over the Mediterranean, Southern, and Western Europe, including the southern half of England; cloudy, or overcast in Ireland, Scotland, Northern, Eastern, and Central Europe, with rain in several localities. Rain falling later at the Scandinavian stations and in Germany—amounts large in some places; a few showers in the northern parts of Ireland and Scotland.

Temperature still exceeding 70° on certain parts of the eastern, southern, and western shores of the Mediterranean, much lower elsewhere; below 60° over the greater part of Europe, and as low as 46° at Archangel, 48° at Christiana and Sumburgh Hd., 49° at Rode, and 50° at Haparanda and Hernösand. Rising later to 69° at Leith, and to a little above 70° at some of our southern stations, and slightly exceeding 80° at Rochefort and Lisbon, but falling short of that value over France as a whole.

Wind NW² over Ireland, Scotland, Norway, and the North Sea, blowing hard at Christiana; SW² in many parts of Germany, SE³ to NE² in the north of Russia. N² airs in the English Channel, and NE² to E² breezes over the Bay of Biscay and Spain.

Barometer highest, 30.2 ins: to 30.3 ins: and more over Ireland, southwest of England, Brittany, and adjacent parts of Atlantic, and exceeding 30.2 ins: over the Mediterranean, Southern, and Southeastern Europe; lowest, 29.6 ins: to 29.5 ins: in a complex depression over the Baltic Provinces, Finland and the northern half of Scandinavia; gradients moderate. Rising over our Islands later as the Atlantic anticyclone spread eastwards and north-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 *Saturday, 13th September,* 1890.
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

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

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										LAST 24 HOURS.		
	Barom. Reading at 32° F. and Sea Level.	Temp. Dry.	Wind.		Weather.	Barometer.		Shade Temp.			Wind.		Sea. (0 to 4).	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.	Inference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)		Weather.	Max.		Min.	
SCANDINAVIA.	Haparanda ...	29.76	47	Z	0	b	29.85	+ .23	46	46	- 3	N	2	C	*	54	45	.
	Hernösand ...	29.91	51	Z	6	b	29.98	+ .29	49	44	- 1	N	2	bc	*	61	46	.
	Stockholm ...	29.88	51	NW	4	0	30.02	+ .48	48	44	+ 1	NW	4	b	*	58	41	0.12
	Wisby ...	29.84	53	NE	6	0	29.97	+ .43	53	50	+ 3	NNE	6	b	*	55	45	0.16
	Bodö ...	29.91	46	Z	0	0	29.79	- .02	46	45	- 3	E	4	T	2	?	45	0.04
	Christiansund	29.96	53	S	2	0	30.03	+ .03	54	53	+ 6	W	9	r	3	54	?	0.16
	Skudesnaes ...	30.13	53	Z	0	0	30.20	+ .16	56	53	+ 4	Z	0	0	2	57	52	.
	Christiania Fjord (Fjorder)	30.01	57	NW	2	b	30.08	+ .18	53	51	0	NW	2	b	1	59	?	.
	Skagen (The Scaw)	30.02	51	NW	1	b	30.12	+ .22	55	51	0	SW	1	b	0	61	48	.
	Fanö ...	30.10	53	NW	4	b	30.17	+ .18	56	54	+ 1	Z	0	b	*	59	46	.
BRITISH ISLANDS.	Sumburgh Head	30.09	53	W	3	r	30.17	+ .15	55	53	+ 1	Z	0	b	3	55	48	0.07
	Stornoway ...	30.18	58	W	3	b	30.11	- .03	55	54	- 1	S	3	bc	3	62	50	.
	Wick ...	30.20	56	Z	0	b	30.19	+ .05	55	54	- 3	S	2	b	1	67	40	.
	Nairn ...	30.18	62	NW	1	bc	30.17	+ .02	52	50	- 7	Z	0	b	0	67	38	.
	Aberdeen ...	30.21	59	S	2	b	30.21	+ .02	58	55	0	S	1	bmw	0	70	43	.
	Leith ...	30.22	63	W	3	b	30.22	- .01	51	50	- 8	NW	1	bm	*	67	42	.
	Shields ...	30.24	59	SE	1	0	30.24	+ .01	54	52	- 1	SW	1	bm	2	65	47	.
	Spura Head ...	30.25	57	NNE	2	bc	30.26	+ .01	58	55	+ 4	NE	2	bc	2	62	52	.
	York ...	30.25	63	E	1	C	30.27	- .00	53	52	+ 2	E	1	b	*	70	46	.
	Loughborough	30.24	63	NW	2	C	30.28	- .01	47	47	- 5	Z	0	fw	*	72	42	.
GERMANY & HOLLAND.	Ardrossan ...	30.24	58	W	1	bc	30.19	- .06	54	52	- 3	ESE	1	bm	0	62	47	.
	Malin Head ...	30.22	56	ESE	3	b	30.12	- .16	53	51	- 1	SSE	4	cmw	2	58	51	.
	Mullaghmore ...	30.21	60	NNE	1	b	30.09	- .21	55	52	+ 2	SE	4	cmw	2	60	53	.
	Belmullet ...	30.21	59	NW	2	0	30.04	- .25	57	55	+ 2	SSE	2	0	*	63	54	.
	Donaghadee ...	30.26	56	S	2	0	30.20	- .11	57	54	+ 1	S	3	m	1	58	53	.
	Liverpool (Bidston)	30.27	58	NW	1	bc	30.23	- .07	53	51	- 4	ESE	2	m	2	61	48	.
	Holyhead ...	30.27	57	NE	1	b	30.20	- .11	58	56	0	SSE	1	bmw	1	62	50	.
	Parsonstown ...	30.22	65	Z	0	b	30.11	- .20	56	54	+ 1	SE	1	0	*	2	60	.
	Valencia ...	30.21	61	ESE	4	C	30.03	- .26	60	57	+ 4	SE	5	og	5	65	55	.
	Roche's Point...	30.23	60	SE	2	C	30.10	- .22	60	56	+ 1	SE	4	b	4	63	56	.
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.25	58	NNE	2	b	30.17	- .14	60	58	+ 2	ESE	3	bmw	3	62	55	.
	Scilly ...	30.22	60	E	2	b	30.10	- .15	61	59	+ 1	ESE	3	0	1	64	56	.
	Prawle Point ...	30.24	58	SSE	2	b	30.19	- .10	62	59	+ 1	ESE	2	b	1	65	56	.
	Jersey (St. Aubin's)	30.21	63	ENE	3	b	30.20	- .10	64	59	+ 1	E	3	bmw	3	70	54	.
	Hurst Castle ...	30.26	62	SSE	2	b	30.24	- .06	56	55	0	ENE	1	bw	0	68	50	.
	Dungeness ...	30.27	62	S	3	b	30.23	- .03	60	57	+ 4	S	3	0	1	67	46	.
	London ...	30.23	62	E	1	b	30.24	- .05	52	52	- 2	NW	1	bfw	*	69	47	.
	Oxford ...	30.25	55	NW	2	b	30.26	- .04	48	47	- 6	NW	1	bfw	*	71	45	.
	Cambridge ...	30.23	62	NW	1	b	30.25	- .04	51	51	- 2	NE	1	ow	*	73	46	.
	Yarmouth ...	30.24	61	SE	1	b	30.24	0.0	59	57	+ 2	ESE	2	bcv	2	63	55	.
PENIN- SULA.	Cuxhaven ...	30.11	57	NW	4	b	30.20	+ .16	57	54	0	NE	1	b	*	59	56	.
	Berlin ...	30.04	54	NW	4	b	30.14	+ .21	50	48	- 1	NW	3	b	*	63	45	.
	Wiesbaden ...	*	*	*	*	*	30.25	+ .10	55	51	0	Z	0	0	*	64	46	.
	Munich ...	30.21	52	SW	3	0	30.25	+ .08	49	47	- 4	NW	2	C	*	59	46	.
	The Helder ...	30.23	58	NW	1	C	30.25	+ .06	58	56	0	N	1	C	1	59	54	.
	Brussels (9 a.m.)	*	*	*	*	*	30.27	+ .04	54	53	- 5	ESE	1	0	*	67	48	.
	Cape Gris Nez	30.27	57	NE	1	b	30.26	+ .02	56	54	- 3	S	3	0	2	66	52	.
	Paris ...	30.22	61	NNE	2	b	30.23	- .03	51	50	- 5	N	1	b	*	70	47	.
	Brest ...	30.14	73	E	2	b	30.11	- .12	61	58	+ 4	E	3	b	3	79	50	.
	Lorient ...	30.17	70	Z	0	b	30.15	- .08	58	55	+ 2	Z	3	b	1	77	54	.
FRANCE AND BELGIUM.	Rochefort ...	30.17	73	NW	3	b	30.17	- .08	59	55	- 2	NE	4	b	2	82	52	.
	Belfort ...	30.14	61	E	2	C	30.11	- .01	59	58	0	E	1	bc	*	73	47	.
	Lyons ...	30.17	64	N	2	b	30.11	- .07	53	50	- 7	NW	2	b	*	75	51	.
	Nice ...	29.99	62	S	5	bc	29.94	- .14	60	58	0	ENE	5	0	1	75	59	.
	Perpignan ...	30.02	78	NW	2	b	30.00	- .14	65	59	- 1	NE	2	b	*	88	57	.
	Biarritz ...	30.06	70	E	3	b	30.06	- .09	66	66	- 1	NW	3	0	2	77	66	.
	Corunna ...	*	*	*	*	*	30.12	- .00	63	60	- 5	NW	2	b	5	75	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

Saturday, 13th September,

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:

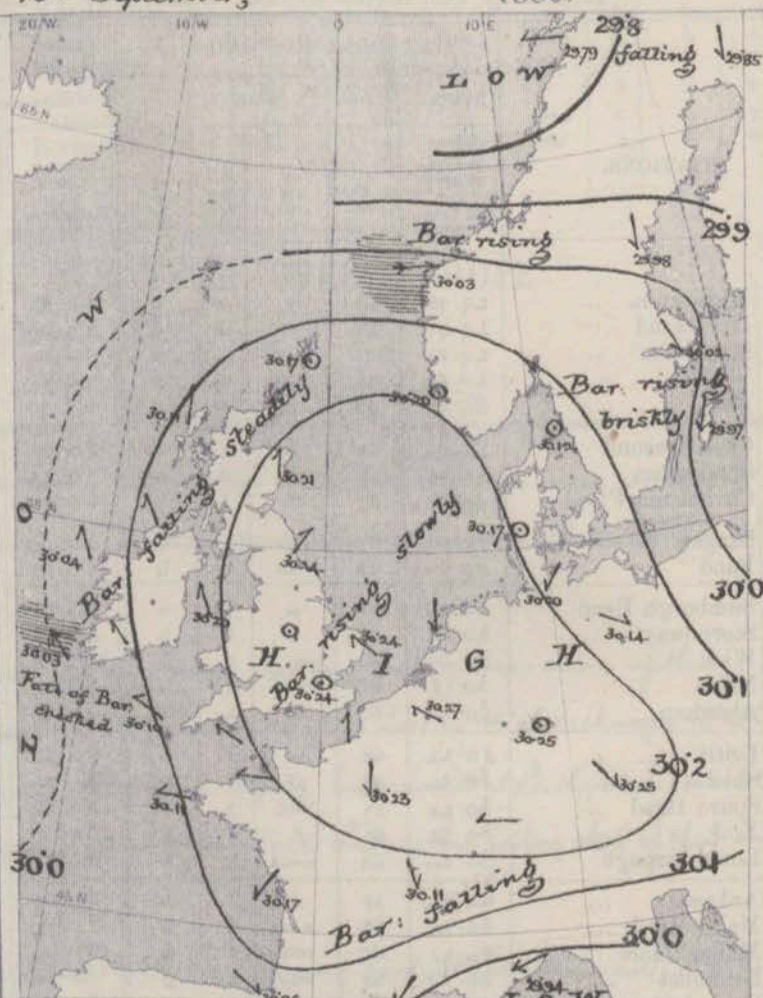
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.766
Stornoway	29.780
Wick	29.793
Nairn	29.809
Aberdeen	29.819
Leith	29.846
Shields	29.869
York	29.905
Loughborough	29.924
Ardrossan	29.850
Donaghadee	29.869
Holyhead	29.894
Liverpool	29.890
Parsonstown	29.904
Valencia	29.917
Roche's Point	29.915
Pembroke	29.918
Sally	29.943
Jersey	29.955
Hurst Castle	29.960
Dover	29.941
LONDON	29.945
Oxford	29.935
Cambridge	29.931
Yarmouth	29.916



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.

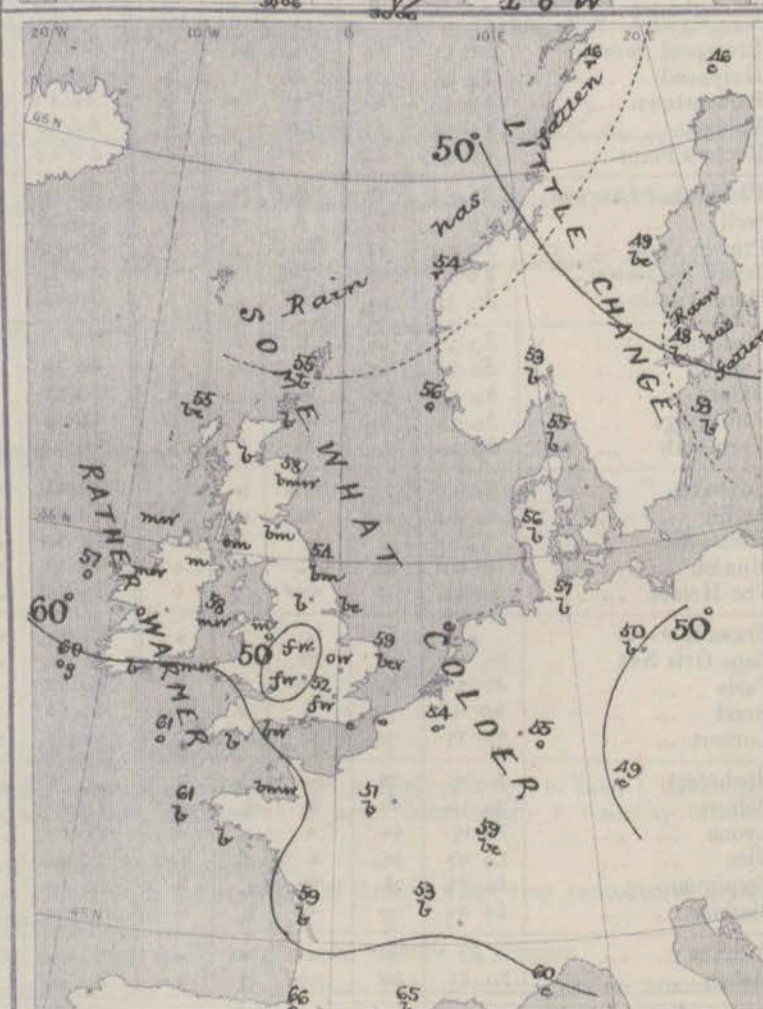
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of September.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	55.2	46.3	50.9	49.2	3.46
Stornoway	56.1	45.7	51.1	49.8	4.13
Wick	57.0	45.5	51.8	49.9	2.66
Nairn	59.0	46.8	51.2	48.8	2.73
Aberdeen	59.2	46.7	52.1	49.8	3.22
Leith	62.2	47.6	53.2	50.8	2.47
Shields	59.9	49.3	53.1	51.1	2.58
York	63.3	47.3	52.8	51.0	2.98
Loughborough	65.0	47.0	54.3	52.4	3.06
Ardrossan	59.7	49.6	53.5	51.3	3.87
Donaghadee	59.6	48.8	53.3	52.1	3.22
Holyhead	60.6	52.8	55.7	53.5	3.35
Liverpool	61.2	50.9	54.5	51.9	3.56
Parsonstown	61.6	47.5	53.1	51.1	3.49
Valencia	61.7	51.5	56.3	53.9	4.87
Roche's Point	61.0	51.0	55.4	53.2	3.89
Pembroke	60.2	53.1	56.2	53.8	3.69
Sally	61.8	54.8	58.4	56.2	3.51
Jersey	65.2	54.9	59.8	57.1	3.35
Hurst Castle	64.2	52.2	57.2	55.8	2.86
Dover	62.9	53.0	57.9	55.3	2.59
LONDON	66.3	49.4	55.9	53.6	2.91
Oxford	63.8	49.1	54.2	52.3	2.48
Cambridge	65.5	48.1	54.4	52.9	3.17
Yarmouth	62.0	51.1	55.2	54.4	

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 more, over England, the North Sea, the northeast of France and Western Germany.
Lowest, 29.9 in. and less, over the Baltic Provinces; about 30.0 in. off the west of Ireland; rather less than 30.0 in. over the Mediterranean.
Gradient slight in the east, moderate elsewhere.
Barometer falling in the west and northwest, but the fall at Valencia has been checked.

TEMPERATURE

Highest, 66° at Biarritz, 65° at Penzance, 64° at Jersey, 60° at Nice, Lyons, Hambro and Valencia Island.
Lowest, 46° in Lapland, 47° at Loughborough, 48° at Stockholm and Oxford, 49° at Munich.
In London the temperature was 52°, at Paris 51°, and at Berlin 50°.

WIND

Moderate from the SE. on our western coast, light S. in Scotland. Moderate E. to NE. over the Bay of Biscay and the western part of the English Channel, variable over England.
Over the Baltic the wind was N. and over Germany NW.

WEATHER

Rainy again in the northeast of Norway, dull in the west and northwest of our islands, fair or fine elsewhere, but with haze or fog in several places.

SEA

Rather rough at Valencia, moderate at Rocherhaut, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There is no indication of any important change.

FORECASTS

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

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	S. and SW. winds; some showers.
1	SCOTLAND EAST	
2	ENGLAND N.E.	Varying light winds; fair generally.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	Very variable airs; fine, foggy at times. Warm during day.
5	ENGLAND SOUTH	

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	S. to W. breezes; fair as a whole.
7	ENGLAND N.W.	
8	ENGLAND S.W.	SE to S. winds, light; fine.
9	IRELAND NORTH	S. winds, falling light; fine generally, except in far west.
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
Skudesnae ...	30.10	57	49	NW	4	b	2	Holyhead ...	30.31	61	56	mmw	1	c	1
Sumburgh Head ...	30.06	54	54	W	3	r	3	Valencia ...	30.25	68	61	SSe	2	cm	2
Stornoway ...	30.18	62	59	W	4	b	4	Scilly ...	30.25	63	61	E	4	bc	1
Aberdeen ...	30.19	64	56	SSe	2	bc	1	Jersey ...	30.26	70	63	Ene	2	bc	2
Shields ...	30.24	64	58	NW	1	c	2	Dungeness ...	30.28	68	59	S	2	b	0
Ardrossan ...	30.27	66	54	W	1	b	0	London ...	30.26	66	59	Z	0	bm	*
Malin Head ...	30.27	57	56	S	1	0	1	Yarmouth ...	30.25	62	57	ESE	2	b	2
Malinbegmore ...	30.27	57	56	NE	2	b	2	Rocheport ...	30.22	76	69	NW	3	b	?
Belmullet ...	30.26	63	58	mmw	2	b	*								

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

Continental Information has not 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; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

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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.		Weather.	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.)	Max.		Min.	
SCANDINAVIA.	Haparanda ...	29.89	48	2	0	0	29.95	+ .10	50	48	+ 4	2	0	bc	•	54	36	—
	Hernösand ...	29.99	56	N	2	0	30.08	+ .10	51	51	+ 8	N	4	bc	•	61	39	—
	Stockholm ...	30.03	56	N	2	0	30.11	+ .09	54	50	+ 6	NNW	4	b	•	59	41	—
	Wistby ...	30.05	53	N	4	0	30.08	+ .11	56	54	+ 3	NNE	4	c	•	57	50	0.04
	Bodö ...	29.90	52	WSW	6	r	30.06	+ .27	51	50	+ 5	SW	6	r	3	52	45	0.55
	Christiansund	30.17	52	NNW	5	f	30.8	+ .15	52	51	— 2	ESE	2	c	3	54	50	0.08
	Skudesnaes ...	30.18	54	2	0	0	30.24	+ .04	53	52	— 3	NNW	1	o	2	61	52	—
	Christiania Fjord (Farder)	30.12	58	SSW	2	0	30.16	+ .08	58	57	+ 5	WSW	2	b	1	63	?	—
	Skagen (The Scaw)	30.14	55	WSW	1	bc	30.17	+ .05	55	55	0	S	1	m	0	68	54	—
	Fanö ...	30.22	55	NW	2	r	30.25	+ .08	56	55	0	NW	1	o	•	61	54	—
BRITISH ISLANDS.	Sumburgh Head	30.12	55	SE	1	0	30.16	— .01	56	56	+ 1	2	0	b	1	58	51	—
	Stornoway ...	30.01	60	SE	2	0	30.11	— .00	58	57	+ 3	2	0	o	2	64	63	—
	Wick ...	30.07	58	S	2	0	30.16	— .03	60	56	+ 5	S	1	o	1	68	50	—
	Nairn ...	30.04	59	2	0	0	30.12	— .05	61	57	+ 9	2	0	b	0	68	50	—
	Aberdeen ...	30.15	56	S	3	0	30.18	— .03	61	57	+ 3	S	1	burn	1	64	50	—
	Leith ...	30.18	58	NE	1	0	30.20	— .02	54	53	+ 3	2	0	bm	•	65	47	—
	Shields ...	30.19	58	SE	2	0	30.22	— .02	51	50	— 3	SW	2	m	2	63	49	—
	Spurn Head ...	30.21	59	ESE	3	0	30.27	+ .01	60	57	+ 2	SSW	3	b	3	62	54	—
	York ...	30.21	64	E	1	0	30.27	— .00	55	54	+ 2	ENE	1	o	•	68	49	—
	Loughborough	30.20	65	N	1	bc	30.28	— .00	57	55	+ 10	SW	2	bur	•	76	47	—
GERMANY & HOLLAND.	Ardrossan ...	30.11	63	2	0	0	30.17	— .02	60	57	+ 6	ENE	1	bmw	1	62	52	—
	Malin Head ...	30.00	65	SSE	4	bcw	30.07	— .05	60	58	+ 7	SSE	4	om	1	68	53	—
	Mullaghmore ...	30.11	66	SE	5	cmg	30.08	— .01	60	57	+ 5	E	5	om	2	68	55	—
	Belmullet ...	30.00	62	SW	4	0	30.04	— .00	60	59	+ 3	SSE	1	o	•	63	54	—
	Donaghadee ...	30.10	61	SSW	4	0	30.17	— .03	56	55	— 1	S	3	m	1	64	55	—
	Liverpool (Bidston)	30.16	63	ESE	3	0	30.22	— .01	57	55	+ 4	SE	2	b	2	67	52	—
	Holyhead ...	30.15	63	2	0	bm	30.19	— .01	60	57	+ 2	2	0	bmw	0	70	54	—
	Parsonstown ...	30.05	63	2	0	c	30.10	— .01	60	57	+ 4	SE	1	o	•	63	55	—
	Valencia ...	30.03	61	SSE	2	cm	30.05	+ .02	60	58	0	ESE	3	cm	3	62	55	—
	Roche's Point...	30.08	60	ESE	3	m	30.07	— .03	60	58	0	SSE	4	m	4	63	58	—
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.14	61	ESE	4	0	30.16	— .01	60	59	0	SE	4	bmw	3	65	56	—
	Sully ...	30.10	61	ESE	4	0	30.10	— .00	61	60	0	ESE	3	ow	1	65	55	—
	Prawle Point ...	30.17	58	ENE	3	0	30.18	— .01	61	57	— 1	E	4	bw	2	65	57	—
	Jersey (St. Aubin's)	30.15	64	E	4	bcw	30.19	— .01	62	57	— 2	ENE	3	bm	3	72	56	—
	Hurst Castle ...	30.04	60	ESE	3	bcw	30.24	— .00	61	58	+ 5	E	2	b	0	69	56	—
	Dungeness ...	30.22	62	ENE	4	c	30.26	+ .03	62	58	+ 2	ESE	4	b	2	66	57	—
	London ...	30.23	61	SE	1	f	30.26	+ .02	51	51	— 1	E	1	fr	•	71	47	—
	Oxford ...	30.28	60	S	2	c	30.26	— .00	58	55	+ 10	SSE	1	bm	•	72	48	—
	Cambridge ...	30.22	62	SE	1	0	30.29	+ .04	55	54	+ 4	2	0	b	•	71	46	—
	Yarmouth ...	30.25	61	SSE	2	0	30.28	+ .04	60	57	+ 1	SSE	3	b	2	63	56	—
PENIN- SULS.	Cuxhaven ...	30.24	57	N	2	bc	30.29	+ .09	59	58	+ 2	N	3	bc	•	60	59	—
	Berlin ...	30.22	58	NNW	2	c	30.25	+ .11	53	50	+ 3	NNW	1	r	•	61	48	—
	Wiesbaden ...	*	*	*	*	*	30.29	+ .04	48	46	— 7	2	0	b	•	63	43	—
	Munich ...	30.27	48	2	0	0	30.28	+ .03	44	43	— 5	NE	4	b	•	55	37	—
	The Helder ...	30.27	58	N	1	0	30.30	+ .05	58	55	0	NNE	1	c	1	64	57	—
	Brussels (9 a.m.)	*	*	*	*	*	30.28	+ .01	55	53	+ 1	ESE	1	b	•	62	47	—
	Cape Gris Nez	30.26	60	SE	3	0	30.25	— .01	54	51	— 2	E	3	b	2	66	48	—
	Paris ...	30.18	58	NE	2	0	30.21	— .02	48	46	— 3	NE	2	b	•	69	43	—
	Brest ...	30.10	68	S	1	0	30.12	+ .01	59	57	— 2	SE	3	b	3	61	50	—
	Lorient ...	30.12	68	SW	1	0	30.13	— .02	56	53	— 2	ENE	3	b	1	73	35	—
PENIN- SULS.	Rochefort ...	30.10	73	ENE	4	0	30.12	— .05	55	53	— 4	ENE	4	b	?	84	50	—
	Belfort ...	30.08	59	SW	1	bc	30.14	+ .03	58	48	— 1	SW	2	bc	•	66	46	—
	Lyons ...	30.04	62	?	3	0	30.16	+ .05	51	48	— 2	ESE	1	b	•	70	46	—
	Nice ...	29.90	67	SW	2	bc	30.00	+ .06	61	54	+ 1	ENE	5	c	4	75	57	0.08
	Perpignan ...	29.93	69	S	1	0	30.08	+ .08	59	57	— 6	SW	1	o	•	84	52	—
	Biarritz ...	30.01	68	NNW	3	bc	30.02	— .03	65	63	— 1	W	4	bc	2	78	64	—
PENIN- SULS.	Corunna ...	*	*	*	*	*	30.04	— .06	64	62	+ 5	NNW	1	f	1	70	57	—
	Lisbon ...	30.07	64	NNW	4	0	30.07	— .05	63	59	0	NNW	2	b	4	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

Sunday, 14th September,

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.

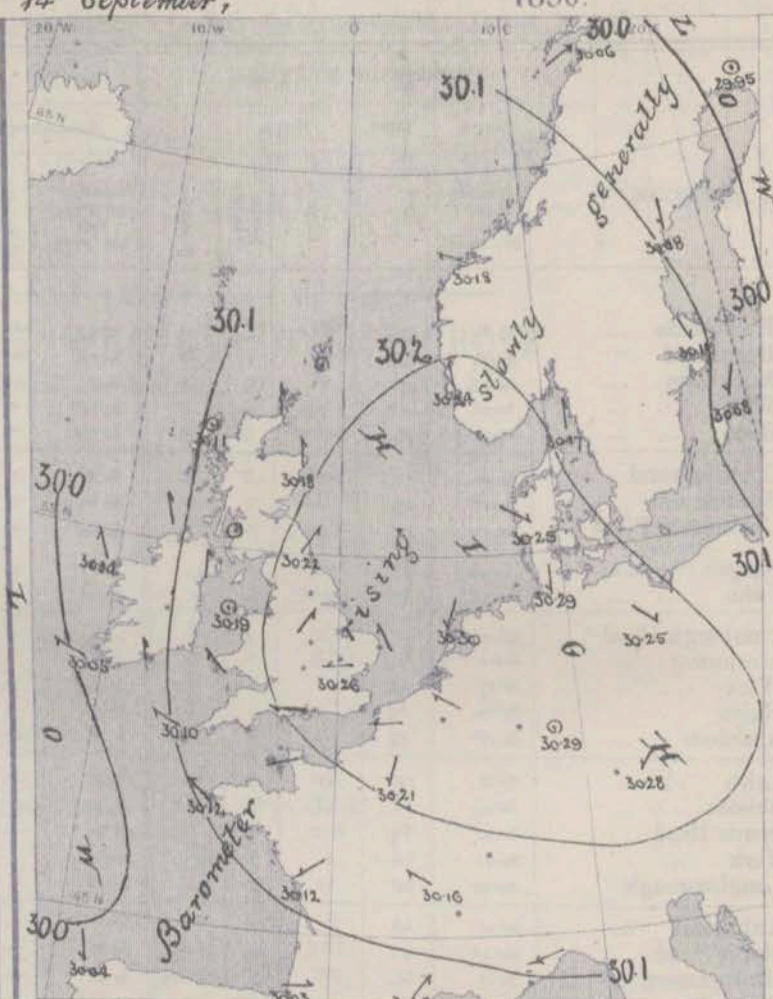
SEA DISTURBANCE—Where considerable, is shown thus:

▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.766
Stornoway	29.780
Wick	29.793
Nairn	29.809
Aberdeen	29.819
Leith	29.840
Shields	29.869
York	29.905
Loughborough	29.924
Ardrossan	29.850
Donaghadee	29.869
Holyhead	29.894
Liverpool	29.899
Parsonstown	29.904
Valencia	29.917
Roche's Point	29.915
Pembroke	29.913
Scilly	29.943
Jersey	29.955
Hurst Castle	29.960
Dover	29.941
LONDON	29.915
Oxford	29.935
Cambridge	29.931
Yarmouth	29.916



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.

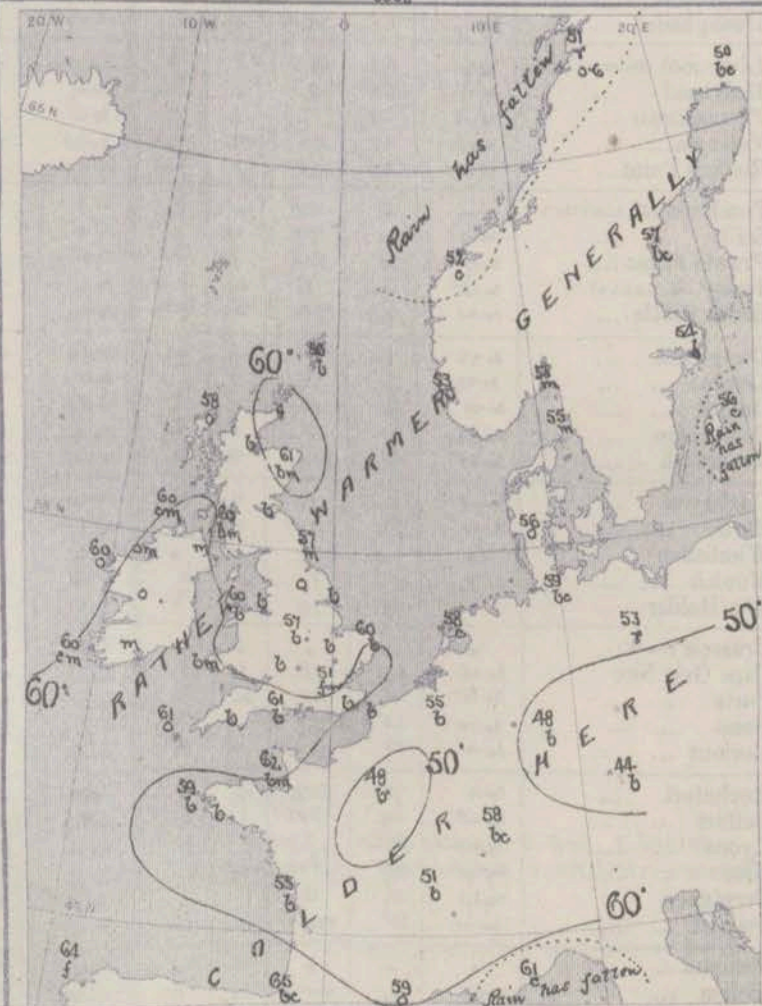
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of September.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	55.2	46.3	50.9	49.2	3.46
Stornoway.....	56.1	45.7	51.1	49.8	4.13
Wick.....	57.6	45.5	51.8	49.9	2.66
Nairn.....	59.0	46.8	51.2	48.8	2.73
Aberdeen.....	59.2	46.7	52.1	49.8	3.22
Leith.....	62.2	47.6	53.2	50.8	2.47
Shields.....	59.9	49.3	53.1	51.1	2.58
York.....	63.3	47.3	52.8	51.0	2.98
Loughborough.....	65.0	47.9	54.3	52.4	3.06
Ardrossan.....	59.7	49.6	53.5	51.3	3.87
Donaghadee.....	59.6	48.8	53.3	52.1	3.22
Holyhead.....	60.6	52.8	55.7	53.5	3.35
Liverpool.....	61.2	50.9	54.5	51.9	3.56
Parsonstown.....	61.6	47.5	53.1	51.1	3.49
Valencia.....	61.7	51.5	56.3	54.0	4.87
Roche's Point.....	61.9	51.0	56.4	53.2	4.29
Pembroke.....	60.2	53.1	56.2	53.8	3.89
Scilly.....	61.8	54.8	58.4	56.2	3.69
Jersey.....	65.2	54.9	59.8	57.1	3.51
Hurst Castle.....	64.2	52.2	57.2	54.8	3.55
Dover.....	62.9	53.0	57.9	55.3	2.86
LONDON.....	66.3	49.4	55.9	53.5	2.59
Oxford.....	63.8	49.1	54.2	52.3	2.91
Cambridge.....	65.5	48.1	54.4	52.9	2.48
Yarmouth.....	62.0	51.7	56.2	54.1	3.17

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, 30.1 ins. to 30.3 ins. in an anticyclone covering the British Isles, the North Sea, France, and Germany.
Lowest, about 30.0 ins. off the west of Ireland, in the extreme south of France, and over Lapland.
Gradients slight, especially over England, the North Sea and North Germany.
Barometers rising slightly in all districts.

TEMPERATURE

Highest, 65° at Biarritz, 64° at Cornua, 63° at Lisbon, 61° to 62° along the south coast of England, 61° at Harrow and Aberdeen, 60° over Ireland.
Lowest (1) 44° at Munich, 48° at Paris and Wiesbaden, 51° in London, 53° at Berlin; (2) 50° at Kapaevsk, 52° at Christiansund.
It has been as low as 46° to 48° in the shade over our inland countries during the night, and to 38° on the grass in London.

WIND

Light to moderate from E. or NE. in the west of France, from E. in the Channel, and from the SE^W in Ireland; light S^W over the Irish Sea and the northeast of England; calm in Scotland.
To the eastward of the North Sea it is N^W and NW^W.

WEATHER

Cloudy in the west of Norway, with rain at 1000 - dull in the Hebrides and west of Ireland, fine over France and the greater part of the British Islands, but foggy or hazy in several places.
There has been no rain at any of our own stations.

SEA

Moderate at Valencia, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

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

DISTRICTS.

FORECASTS.

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

NONE ISSUED

DISTRICTS.

FORECASTS.

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

NONE ISSUED

WARNINGS

NONE ISSUED

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND		WEA.	SEA		BAR.	THER.		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	30.21	60	57	NW	4	c	2	Holyhead ...	30.15	70	61	S	2	b	1
Sumburgh Head ...	30.17	56	55	SE	1	b	3	Valencia ...	30.04	62	60	SSE	5	om	4
Sornoway ...	30.05	60	59	S	3	b	3	Scilly ...	30.10	64	61	ESE	4	o	1
Aberdeen ...	30.18	61	56	SSE	3	b	2	Jersey ...	30.18	72	63	ESE	3	b	3
Shields ...	30.23	57	54	ESE	2	b	2	Dungeness ...	30.24	65	60	ENE	4	b	2
Ardrrossan ...	30.15	61	60	2	0	b	0	London ...	30.13	67	60	SE	3	c	2
Malin Head ...	30.02	66	60	SSE	5	b	2	Yarmouth ...	30.26	63	59	SE	2	b	2
Mullaghmore ...	30.02	62	59	SE	6	b	4	Rocheport ...	30.13	82	66	NE	4	b	?
Belmullet ...	30.00	63	59	S	3	o	*								

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

Weather fine and bright over nearly the whole of Western and Southern Europe, but mist or fog and heavy dew reported in many parts of the United Kingdom, and rain in the west of Norway. Cloudy in Germany, Russia, and Austria, with rain at Cracow. Thunderstorms occurring in evening in south of France, and very heavy rain falling in Italy, the largest amounts reported next morning being 2.5 ins. at Naples, and 1.4 ins. at Rome.

Temperature highest 76° at Laibach, 75° at Palma, 72° at Algiers, and 71° at Cagliari and Thivodini; reaching 60° or a little more on the south and south-west coast of our Islands. Lowest, 45° at St. Petersburg, 46° at Rode, Naparanda, Uleaborg, Narnew and Cracow, and 47° at Loughborough. Rising during day to 70° or more in many parts of England, and reaching 76° at Loughborough. Exceeding 80° in Spain, Algeria, and the southern parts of France and Italy, the highest readings of all being 97° at Salta, and 91° at Loughat.

Wind light or moderate from the SE or S over the greater part of the United Kingdom. NW or N over Sweden, Germany, and Russia; W in Austria; NE in France; variable in Spain and Italy, S or SW in Algeria. NW breezes subsequently settling in over Spain, and N breezes in Italy and Algeria.

Barometer highest 30.2 ins. and upwards, in an anticyclone lying over England, the North Sea, Belgium, Western Germany, and the northeast of France. Lowest, 29.7 ins. and less, in two shallow depressions lying respectively over Northern and Central Russia; 29.9 ins. and less, in another shallow system lying over Corsica and Sardinia. Large disturbances moving northwards along our extreme western coast during day, and barometer falling in most parts of the United Kingdom.

General Remarks on the Weather over Europe for 24 hours ended 8 am Sept: 13th 1890.

Weather fine and bright, over nearly the whole of Western Europe, including the major part of the British Islands, cloudy in many parts of Ireland, the west of Norway, Finland, Russia, Germany, and Austria, rain falling in several localities, fog in the Gulf of Finland. Some rain later over several parts of Northern Europe, and a heavy fall reported locally at Piacenza (Italy).

Temperature in morning still exceeding 70° at a few Mediterranean stations and at Bilbao, and exceeding 60° over the southern parts of France and at a few stations on the shores of the English Channel. As low as 47° over some parts of the Baltic, 48° at Riga, 49° at the two stations in Lapland, and 51° to 54° over Central England, as well as in many parts of Germany. Rising later to between 60° and 70° over England and some parts of Germany, but to a higher value over France and Italy; exceeding 80° at Cagliari, and exceeding 90° in Central Algeria.

Wind light and anticyclone over the British Islands and their neighbourhood, strong to a gale from the N over Sweden, moderate NW over Germany and the greater part of Austria, very variable elsewhere. Gale in Sweden moderating later, and wind ~~moderating~~ becoming more W over Hungary and South Germany.

Barometer highest, 30.1 ins. to 30.3 ins. and more, in a large anticyclone lying over Western Europe generally—centre of the system lying over St. George's Channel. Lowest, 29.5 ins. and less, in a large but not deep depression lying over the Baltic Provinces and Finland; gradients somewhat steep over Scandinavia and eastern shore of the North Sea. Both systems moving eastwards 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 *Monday, 15th September, 1890.*
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		BAROM. Reading at 32° F. and Sea Level.	TEMP. Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 5.)	SHADE TEMP.		Amount of Rainfall.	
				Dirce.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirce.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...	30.07	54	Z	0	0	30.08	+13	52	52	+2	Z	0	0	*	63	43	-	
	Hernösand ...	30.21	51	Z	0	0	30.23	+15	53	50	-4	Z	0	0	*	73	50	-	
	Stockholm ...	30.20	53	NW	2	0	30.27	+16	51	50	-1	Z	0	0	*	63	50	-	
	Visby ...	30.15	54	N	4	0	30.21	+13	55	52	-1	NE	2	0	*	59	50	-	
	Bodö ...	30.11	52	SW	4	0	30.17	+11	52	50	+1	SW	4	0	2	52	45	0.04	
	Christiansund	30.23	54	W	3	0	30.26	+08	55	53	+3	S	3	0	3	59	?	-	
	Skudesnaes ...	30.20	51	SSE	2	0	30.28	+12	52	52	-6	nnw	2	1	1	59	52	-	
	Christiania Fjord (Pærdier)	30.17	55	W	1	m	30.26	+09	55	53	0	SW	1	0	0	63	54	-	
	Skagen (The Seaw)	30.27	57	NW	2	0	30.28	+03	57	56	+1	Z	0	0	*	61	55	-	
	Fanö ...	30.16	57	Z	0	0	30.10	-01	54	54	-2	SE	2	2	2	63	51	0.01	
BRITISH ISLANDS.	Sumburgh Head	30.07	58	Z	0	0	29.92	-19	58	57	0	S	3	0	3	61	47	-	
	Stornoway ...	30.14	57	Z	0	0	30.06	-10	55	54	-5	S	3	0	3	70	45	-	
	Wick ...	30.07	57	Z	0	0	30.00	-12	60	57	-1	S	1	0	1	74	48	-	
	Nairn ...	30.15	61	S	2	0	30.11	-07	55	53	-6	SSE	3	ow	3	70	51	-	
	Aberdeen ...	30.14	63	W	1	0	30.08	-12	60	55	+6	SE	1	bm	*	67	47	-	
	Leith ...	30.18	65	SSE	2	0	30.15	-07	55	53	+4	SE	2	0	2	68	49	-	
	Shields ...	30.22	59	SE	4	0	30.16	-11	61	58	+1	SSE	4	bw	3	63	57	-	
	Spurn Head ...	30.21	65	SW	1	0	30.17	-10	55	54	0	SE	1	0	*	69	56	-	
	York ...	30.20	64	ESE	1	0	30.15	-13	56	58	-1	SE	2	0	*	74	50	-	
	Loughborough	30.13	60	S	2	0	30.00	-17	60	55	0	E	3	bmw	2	62	48	-	
GERMANY & HOLLAND.	Arrossan ...	30.04	61	SSE	3	0	29.81	-26	57	53	-3	SSE	6	bm	2	67	55	-	
	Malin Head ...	30.02	63	SSE	5	0	29.86	-22	57	54	-3	E	5	0	3	63	56	0.02	
	Mullaghmore ...	30.01	68	SSW	2	0	29.74	-30	58	56	-2	SSE	5	0	*	60	56	0.40	
	Belmullet ...	30.12	54	SSW	3	0	29.98	-19	58	56	+2	SW	4	m	2	64	55	-	
	Donaghadee ...	30.16	64	SE	2	0	30.08	-14	64	56	-3	SE	3	0	3	68	50	-	
	Liverpool (Bidston)	30.15	64	SSW	1	0	30.01	-18	64	56	+4	SSE	3	bw	2	68	55	-	
	Holyhead ...	30.01	60	SE	1	0	29.86	-24	58	55	-2	SE	2	0	*	63	53	-	
	Parsonstown ...	29.97	61	SE	5	0	29.79	-26	60	59	0	SE	6	0	6	63	59	0.63	
	Valencia ...	30.04	60	SSE	3	m	29.88	-19	60	59	0	S	5	gp	4	63	58	0.10	
	Roche's Point...	30.11	61	SE	4	0	29.97	-19	61	60	+1	SE	5	0	4	64	58	-	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd)	30.10	60	SSE	4	0	29.94	-16	62	60	+1	S	3	0	2	64	54	-	
	Scilly ...	30.12	58	ESE	4	0	30.02	-16	61	59	0	E	3	0	1	63	57	-	
	Prawle Point ...	30.10	65	E	4	0	30.04	-15	65	59	+3	E	3	bmw	3	70	55	-	
	Jersey (St. Aubin's)	30.18	61	E	3	0	30.09	-17	63	60	+2	ESE	3	0	1	67	58	-	
	Hurst Castle ...	30.19	62	ESE	5	0	30.12	-14	63	57	+1	ESE	4	0	3	67	58	-	
	Dungeness ...	30.22	61	ESE	3	0	30.13	-13	57	54	+6	ESE	2	0	*	72	47	-	
	London ...	30.20	57	S	2	0	30.11	-15	58	55	0	ESE	1	0	*	70	44	-	
	Oxford ...	30.24	62	Z	0	0	30.17	-12	56	56	+1	SE	1	0	*	73	46	-	
	Cambridge ...	30.25	60	SE	4	0	30.18	-10	61	59	+1	SE	4	0	3	63	57	-	
	Yarmouth ...	30.31	57	N	3	0	30.31	+02	56	54	-3	NE	3	0	*	59	55	-	
GERMANY & HOLLAND.	Cuxhaven ...	30.26	60	NW	2	0	30.29	+04	55	53	+2	NW	2	0	*	66	54	-	
	Berlin ...	*	*	*	*	*	30.26	-03	50	48	+2	Z	0	0	*	64	45	-	
	Wiesbaden ...	30.30	49	E	2	0	30.27	-01	47	46	+3	NE	1	0	*	54	41	-	
	Munich ...	The Helder ...																	
	Brussels (9 a.m.)	30.21	59	NE	4	0	30.17	-08	54	50	0	SE	4	0	3	68	47	-	
	Cape Gris Nez	30.15	63	NE	2	0	30.13	-08	51	48	+3	NE	1	0	*	68	50	-	
	Paris ...	30.02	64	NW	1	0	29.93	-19	60	56	+1	SSE	2	0	2	71	46	-	
	Brest ...	30.05	69	Z	0	0	30.03	-10	55	52	-1	E	2	0	1	70	48	-	
	Lorient ...	30.07	73	ESE	3	0	30.08	-04	60	58	+5	ESE	3	0	*	88	54	-	
	Rocheport ...	30.16	59	SE	1	0	30.13	-01	58	48	0	SW	2	0	*	66	46	0.32	
FRANCE AND BELGIUM.	Belfort ...	30.08	62	N	1	0	30.12	-04	56	52	+5	E	1	0	*	71	46	-	
	Lyons ...	30.09	61	SE	3	0	30.12	+12	59	55	-2	E	1	0	3	73	54	-	
	Nice ...	30.06	65	E	2	0	30.03	-05	62	62	+3	Z	0	0	*	73	?	-	
	Perpignan ...	30.01	70	E	2	0	30.03	00	66	64	+1	W	3	0	2	75	63	-	
	Biarritz ...	30.08	65	NW	3	0	30.10	+03	62	59	-1	nnw	3	0	2	73	61	-	
	Corunna ...	*	*	*	*	*	30.10	+03	62	59	-1	nnw	3	0	2	73	61	-	
	Lisbon ...	30.08	65	NW	3	0	30.10	+03	62	59	-1	nnw	3	0	2	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, 15th September

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:

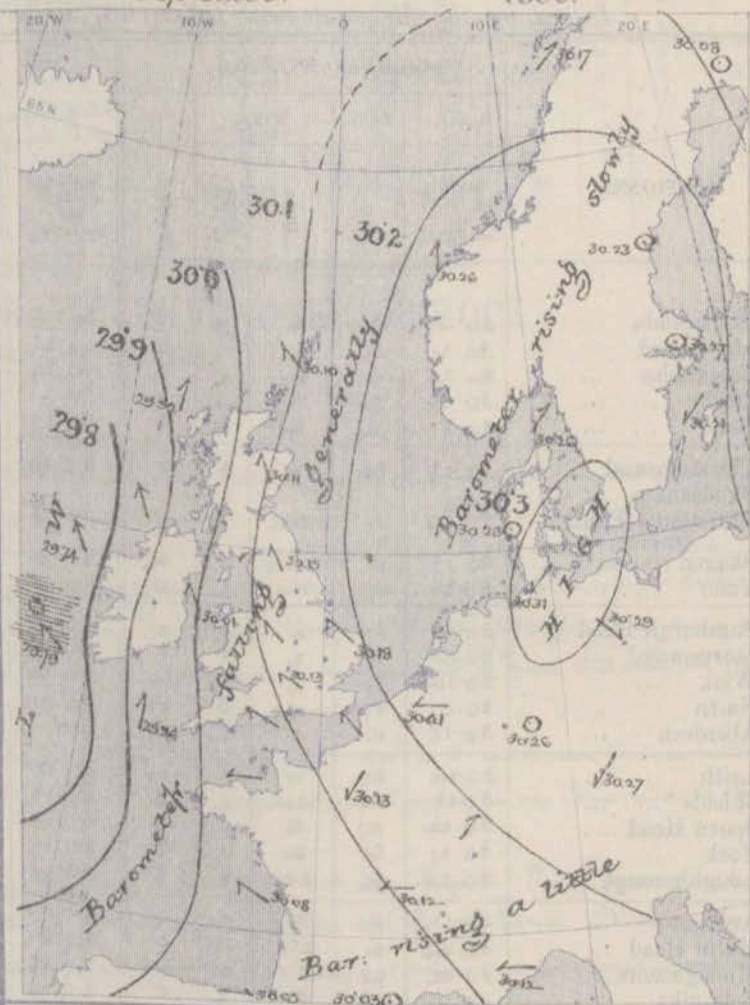
▨ = Rough, ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.706
Stornoway	29.780
Wick	29.793
Nairn	29.809
Aberdeen	29.819
Leith	29.846
Shields	29.869
York	29.905
Loughborough	29.924
Ardrossan	29.850
Donaghadee	29.869
Holyhead	29.894
Liverpool	29.899
Parsonstown	29.904
Valencia	29.917
Roche's Point	29.915
Pembroke	29.913
Scilly	29.943
Jersey	29.955
Hurst Castle	29.969
Dover	29.941
LONDON	29.946
Oxford	29.935
Cambridge	29.931
Yarmouth	29.916



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.

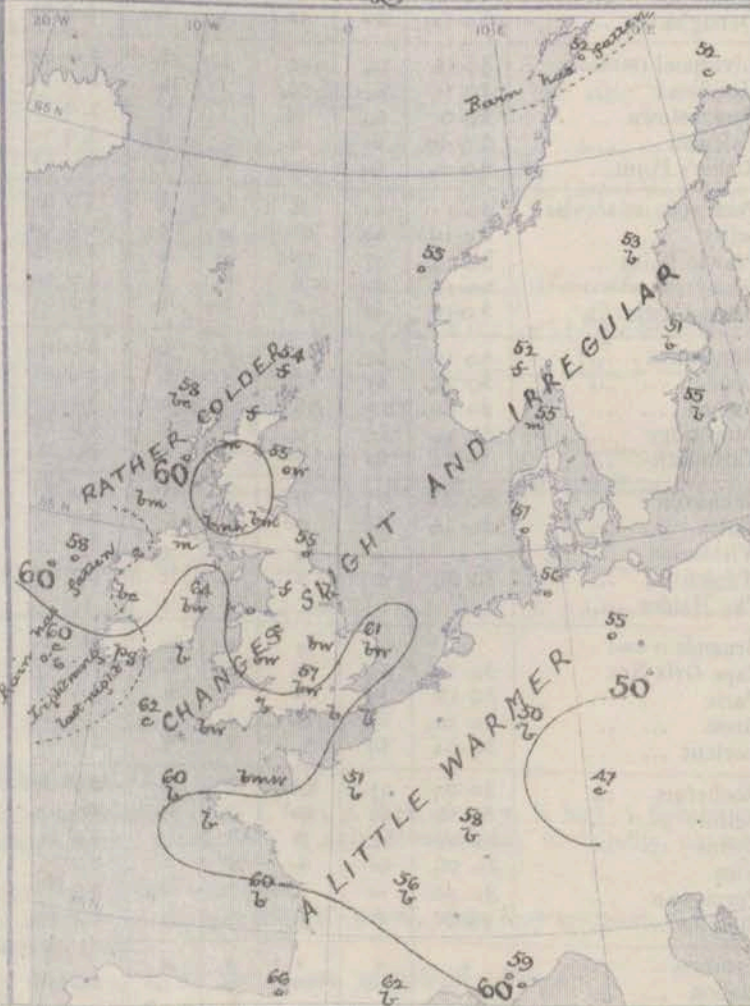
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of September.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Samburgh Head	55.2	46.3	50.9	49.2	3.46
Stornoway	56.1	45.7	51.1	49.8	4.13
Wick	57.9	45.5	51.8	49.9	2.66
Nairn	59.0	46.8	51.2	48.8	2.73
Aberdeen	59.2	46.7	52.1	49.8	2.22
Leith	62.2	47.6	53.2	50.8	2.47
Shields	59.9	49.3	53.1	51.1	2.58
York	63.3	47.3	52.8	51.0	2.98
Loughborough	65.0	47.9	54.3	52.4	3.06
Ardrossan	59.7	49.6	53.5	51.3	3.87
Donaghadee	59.6	48.8	51.3	52.1	3.22
Holyhead	60.6	52.8	55.7	53.6	3.35
Liverpool	61.2	50.9	54.6	51.9	3.56
Parsonstown	61.6	47.5	53.1	51.1	3.49
Valencia	61.7	51.3	56.3	53.9	4.87
Roche's Point	61.0	51.0	55.4	53.2	4.39
Pembroke	60.2	53.1	56.2	53.8	3.89
Scilly	61.8	54.8	58.4	56.2	3.69
Jersey	65.2	54.9	60.8	57.1	3.51
Hurst Castle	64.2	62.2	62.2	65.8	3.35
Dover	62.8	63.0	67.9	65.3	2.86
LONDON	66.3	49.4	55.0	59.6	2.59
Oxford	63.8	49.1	54.2	52.3	2.91
Cambridge	65.5	48.1	54.4	52.9	2.15
Yarmouth	62.0	51.1	56.2	54.3	3.17

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	<p>Highest, 30.2 in. to 30.3 in. over the North Sea, Germany, Denmark, and Scandinavia.</p> <p>Lowest, 29.8 in. and less, over the extreme west of Ireland.</p> <p>Gradient moderate over our islands, slight over the North Sea.</p> <p>Barometer falling at almost all stations, especially in the north-west; at Valencia the fall is checked.</p>
TEMPERATURE	<p>Highest, 66° at Birmingham, 65° at Jersey, 64° at Holyhead, 62° at Leabon, Perpignan and Bally, 61° at Leith, and 60° at Narvik.</p> <p>Lowest, 47° at Munich, 50° at Christiania, 51° at Paris.</p> <p>In London the reading is 57° but the minimum during the night had been 47° in the shade, 36° on the grass.</p>
WIND	<p>Light from NE. and E. over France, from the E. over the Bay of Biscay; from between E. and SE. in the Channel.</p> <p>Moderate SE. over England - fresh SE. to S. in Ireland, light from SE. and S. in Scotland.</p>
WEATHER	<p>Bell on the eastern shores of the North Sea, fine and bright in France and England, dull in the west of Ireland and some parts of Scotland.</p> <p>Rainfall has been considerable in extreme west of Ireland, and lightning has occurred at Valencia and Rockis Point.</p>
SEA	<p>Rough at Valencia, moderate at Rockis Point and Pembroke, slight in most other places.</p>
PROBABLE CHANGES IN SYSTEM NOW PREVALENT	

The movement of the anticyclone is very slow, and fine weather appears likely to continue throughout the day except in the west and northwest.

FORECASTS

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

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
6 SCOTLAND NORTH	S ² winds, moderate; some rain.	6 SCOTLAND WEST	Same as No 0 and 1.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.	SE ² winds, light to moderate; fine.	8 ENGLAND S.W.	SE ² breezes, fresh; some showers.
3 ENGLAND EAST		9 IRELAND NORTH	
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH	E ² and SE ² breezes, moderate or fresh; fine.		
		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 ...	30.26	59	55	W	2	c	2	Holyhead ...	30.17	67	59	SW	2	b	1
Sumburgh Head								Valencia ...							
Stornoway ...	30.10	58	58	S	2	0	2	Scilly ...							
Aberdeen ...								Jersey ...	30.14	70	61	E	4	b	3
Shields ...								Dungeness ...	30.23	66	61	ESE	4	b	2
Ardrossan ...								London ...							*
Malin Head ...	30.06	66	59	SE	4	0	1	Wormouth ...							
Mullaghmore ...								Rochefort ...	30.10	63	66	NE	3	b	2
Belmullet ...	30.01	68	63	SW	2	0	*								

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

Weather fine over the greater part of Europe, but dull in Ireland, as well as at many of the German, Russian and Italian stations - mist and heavy dew reported in many parts of Great Britain; rain falling at Bodo and Berlin. Rain falling later in the west and south of Ireland, and lightning seen at Valencia and Roches Point.

Temperature highest 74° at Algiers, 73° at Barcelona, 72° at La Calle and Malta, and 71° at Bilbao and Aren; nearly 60° or a little more in many parts of the United Kingdom, but as low as 51° in London (where fog prevailed). Below 50° in many parts of Russia and central Europe, the lowest readings of all being 40° at Hermannstadt, and 44° at Munich. Subsequently rising to 70° or a little more in several parts of Great Britain, but remaining below 65° in Ireland.

Wind moderate from the End or NEnd over Italy, France and the Channel, and from the SEnd over England and Ireland, light from the Snd in the east of Scotland. Light from NW or N. over Sweden, Denmark, the Baltic and the greater part of Russia, Austria and Germany; variable in Spain. SEnd wind freshening a little during day in Ireland.

Barometer highest 30.2 ins. and upwards in a large anticyclone lying over the North Sea, Germany, England and the northeast of France. Lowest 29.7 ins. and less in a large shallow area lying over central Russia; 29.9 ins. and less in another shallow system lying over the central parts of the Mediterranean. Slight fall taking place over western Europe during day, and anticyclone becoming somewhat smaller.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 7TH TO 13TH SEPT. 1890.

During nearly the whole of this week the distribution of pressure over our area has been anticyclonic. The central portion of the system has been situated mainly over England and the North Sea, so that as a rule the wind has been End at the southern stations, SEnd to Snd in the west, and Snd to Wnd in the north. On Tuesday and Wednesday, however, pressure gave way considerably in the north, and a depression of considerable intensity advanced to Scandinavia from the Wnd, its southern side just spreading over our northern districts as it did so. This caused a temporary increase of Wnd (SW to NW) winds in those regions, with rain, and an unsettled appearance even in the south. The anticyclone, however, soon spread over us again, and at the close of the week had reached the North Sea; at that time it showed no signs of giving way.

The weather has (except during the interval referred to) been very fine - especially over the more southern districts - the nights have been cold, and often foggy, the days warm and bright.

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

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

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barom.	Temp.	Wind.		Weather.	Barometrical.		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 ...	30.08	51	?	3	b	30.16	+ .08	47	45	—	5	N	2	b	*	63	43	—
Hernösand ...	30.25	49	Z	0	b	30.27	+ .04	47	45	—	6	Z	0	b	*	70	43	—
Stockholm ...	30.28	56	Z	0	b	30.32	+ .05	57	54	+	6	W	2	b	*	68	48	—
Wisby ...	30.26	54	NNW	4	b	30.30	+ .09	54	52	—	1	SE	4	b	*	61	46	—
Bodö ...	30.23	51	WSW	2	c	30.27	+ .10	51	48	—	1	E	1	b	1	54	48	—
Christiansund	30.19	53	ENE	1	m	30.23	— .03	53	52	—	2	Z	0	f	2	59	50	—
Skudesnaes ...	30.25	55	SSE	5	o	30.28	+ .04	57	54	+	4	SSE	6	o	4	?	54	—
Christiana Fjord (Fæder)	30.28	54	SSW	2	o	30.33	+ .05	55	54	+	3	SSW	2	o	1	55	?	—
Skagen (The Seaw)	30.28	56	S	1	o	30.33	+ .07	57	56	+	2	Z	0	o	0	57	54	—
Fanö ...	30.27	57	SE	2	o	30.30	+ .02	55	54	—	2	S	3	o	*	61	54	—
Sumburgh Head	30.00	55	SE	4	o	30.00	— .10	55	55	+	1	SE	4	o	5	58	50	—
Stornoway ...	29.74	64	SW	3	b	29.76	— .16	59	57	+	1	SW	5	b	5	66	56	0.02
Wick ...	29.90	56	S	5	b	29.94	— .12	57	55	+	2	SE	4	o	4	60	44	—
Nairn ...	29.85	64	S	1	b	29.89	— .11	61	56	+	1	Z	0	b	1	73	55	—
Aberdeen ...	30.01	56	SSE	3	o	30.01	— .10	55	54	—	0	SSE	4	angy	4	59	55	—
Leith ...	29.94	62	SE	1	b	29.96	— .12	60	55	—	0	SW	1	bm	*	72	47	—
Shields ...	30.00	58	SE	4	bm	30.02	— .13	57	56	+	2	SE	1	o	3	61	51	—
Spurn Head ...	30.06	60	ESE	6	b	30.04	— .12	61	59	—	0	SE	4	bmur	4	62	58	—
York ...	30.02	65	E	1	b	30.03	— .14	57	56	+	2	SE	1	b	*	74	49	—
Loughborough	30.02	68	ESE	1	b	30.03	— .12	52	51	—	4	SE	1	cfur	*	78	46	—
Ardrossan ...	29.88	62	SE	3	b	29.89	— .11	60	57	—	0	E	2	bm	1	66	56	—
Malin Head ...	29.68	62	SSE	6	bm	29.68	— .13	57	54	—	0	S	7	o	3	65	55	—
Mullaghmore ...	29.70	65	SSE	6	be	29.67	— .19	60	56	+	3	SE	7	c	4	67	57	—
Belmullet ...	29.62	61	SSW	6	o	29.58	— .16	59	58	+	1	S	5	r	*	65	54	0.86
Donaghadee ...	29.88	60	SW	4	be	29.88	— .10	59	57	+	1	S	5	be	3	63	56	—
Liverpool (Bidston)	29.96	66	SSE	2	b	29.96	— .12	55	52	+	1	SE	3	bm	3	72	49	—
Holyhead ...	29.94	63	SSW	4	b	29.93	— .08	61	58	—	3	S	3	bmur	2	70	56	—
Parsonstown ...	29.80	62	SW	1	be	29.76	— .10	59	56	+	1	SE	1	c	*	67	56	—
Valencia ...	29.72	61	SSE	7	cgu	29.62	— .17	62	60	+	2	SSE	7	ang	6	63	59	0.13
Roche's Point...	29.84	61	SSW	5	b	29.77	— .11	61	58	+	1	SSW	6	be	4	65	59	0.04
Pembroke (St. Ann's Id.)	29.96	60	SSE	3	c	29.93	— .04	59	58	—	2	SSE	4	ew	4	63	58	—
Scilly ...	29.97	61	SW	3	c	29.89	— .05	63	60	+	1	S	4	ew	4	67	53	—
Prawle Point ...	30.00	60	S	1	b	29.98	— .04	57	56	—	4	S	1	b	0	65	54	—
Jersey (St. Aubin's)	30.00	69	W	2	b	29.99	— .05	63	60	—	2	WN	1	bmur	1	71	55	—
Hurst Castle ...	30.02	64	SE	2	b	30.00	— .07	57	55	—	6	NNE	1	bmur	0	72	50	—
Dungeness ...	30.05	64	NE	2	b	30.04	— .08	64	60	+	1	SSE	3	bm	1	69	60	—
London ...	30.04	66	ESE	2	b	30.02	— .11	61	57	+	4	SSE	1	bm	*	75	50	—
Oxford ...	30.05	57	S	1	b	30.01	— .10	51	49	—	7	Z	0	b	*	73	42	—
Cambridge ...	30.05	65	SE	1	b	30.04	— .13	60	58	+	4	SE	1	b	*	77	50	—
Yarmouth ...	30.10	62	SE	4	b	30.08	— .10	62	60	+	1	SE	3	bm	3	63	59	—
Cuxhaven ...	30.26	54	ENE	3	f	30.27	— .04	53	53	—	3	SE	3	f	*	60	53	—
Berlin ...	30.26	59	Z	0	o	30.27	— .02	59	56	+	4	E	3	c	*	63	?	—
Wiesbaden ...	*	*	*	*	*	30.18	— .08	55	54	+	5	Z	0	b	*	68	50	—
Munich ...	30.21	51	NE	5	b	30.17	— .10	49	48	+	2	NE	4	b	*	61	41	—
The Helder ...	30.18	58	E	1	b	30.17	— .10	49	48	+	2	ESE	1	b	2	61	55	—
BRUSSELS (9 a.m.)	*	*	*	*	*	30.10	— .11	58	53	+	5	E	2	b	*	73	52	—
Cape Gris Nez	30.07	66	SE	3	b	30.04	— .13	58	53	+	4	SE	4	b	2	75	52	—
Paris ...	30.05	65	ENE	2	b	30.04	— .09	51	50	—	0	NW	1	b	*	?	46	—
Brest ...	30.01	66	W	1	be	29.99	— .06	59	57	—	1	S	2	m	3	79	52	—
Lorient ...	30.01	64	W	3	b	30.01	— .02	55	54	—	0	Z	0	o	5	72	54	—
Rocheport ...	30.08	66	WNW	4	b	30.09	— .01	60	60	—	0	NE	2	f	2	77	54	—
Belfort ...	30.04	55	SW	2	c	30.05	— .08	56	46	—	2	SW	2	b	*	66	46	—
Lyons ...	30.02	66	SSE	1	b	30.06	— .06	55	52	—	1	SSE	1	b	*	75	50	—
Nice ...	30.04	60	Z	0	c	30.07	— .05	60	53	+	1	NE	4	be	1	70	54	—
Perpignan ...	30.04	65	NE	1	c	30.06	— .03	56	56	—	6	SW	1	be	*	77	52	—
Biarritz ...	30.06	68	N	2	o	30.00	— .03	63	61	—	3	SSE	3	o	3	75	63	—
CORUNNA ...	*	*	*	*	*	30.05	— .05	61	57	—	1	NW	1	b	6	72	57	—
Lisbon ...	30.07	63	NNW	4	b	30.05	— .05	61	57	—	1	NW	1	b	6	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

Tuesday, 16th September

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:

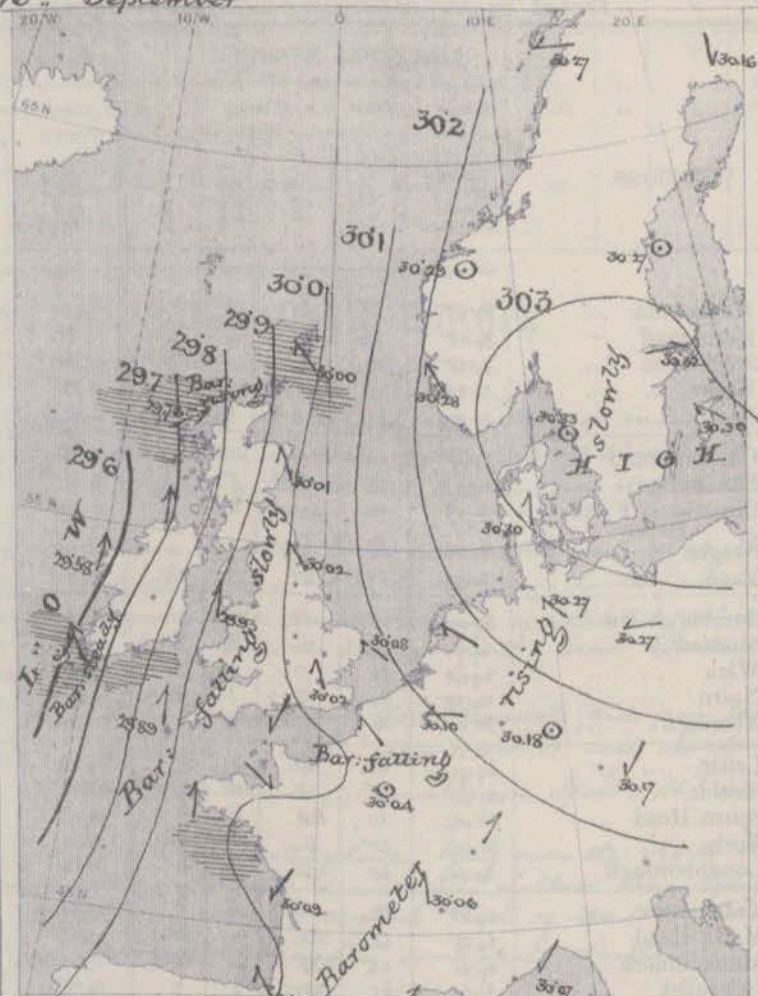
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumbargh Head	29.766
Stornoway	29.780
Wick	29.793
Nairn	29.809
Aberdeen	29.819
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Shields	29.869
York	29.905
Loughborough	29.924
Ardrossan	29.850
Donaghadee	29.869
Holyhead	29.894
Liverpool	29.899
Parsonstown	29.904
Valencia	29.917
Roche's Point	29.915
Pembroke	29.913
Scilly	29.943
Jersey	29.955
Hurst Castle	29.960
Dover	29.941
LONDON	29.945
Oxford	29.935
Cambridge	29.931
Yarmouth	29.916



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.

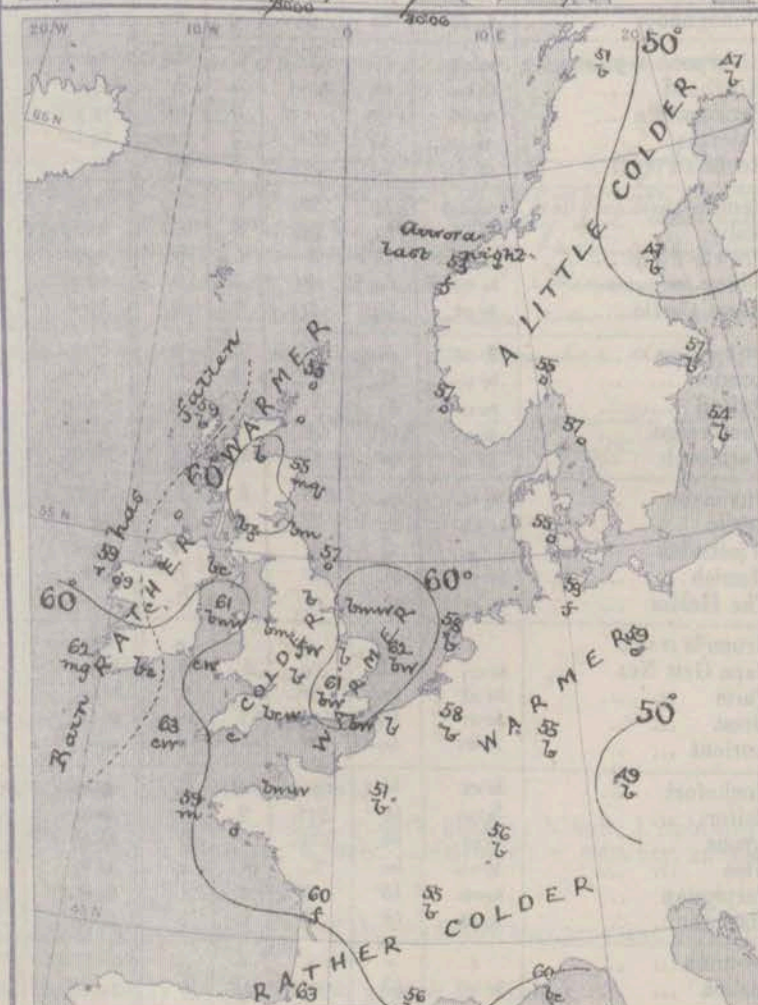
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of September.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Dry, at 8 a.m.	Wet.	
Sumbargh Head	55.2	46.3	50.9	49.2	3.46
Stornoway	56.1	45.7	51.1	49.8	4.13
Wick	57.0	45.5	51.8	49.9	2.60
Nairn	59.0	46.8	51.2	48.8	2.73
Aberdeen	59.2	46.7	52.1	49.8	3.22
Leith	62.2	47.6	53.2	50.8	2.47
Shields	59.9	49.3	53.1	51.1	2.58
York	63.3	47.3	52.8	51.0	2.98
Loughborough	65.0	47.9	54.3	52.4	2.06
Ardrossan	59.7	49.6	53.5	51.3	3.87
Donaghadee	59.6	48.8	53.3	52.1	3.22
Holyhead	60.6	52.8	55.7	53.5	3.35
Liverpool	61.2	50.9	54.5	51.9	3.56
Parsonstown	61.6	47.5	53.1	51.1	3.49
Valencia	61.7	51.5	56.3	53.9	4.87
Roche's Point	61.9	51.0	55.4	53.2	4.39
Pembroke	60.2	53.1	56.2	53.8	3.89
Scilly	61.8	54.8	58.4	56.2	3.69
Jersey	65.2	54.9	59.8	57.1	3.51
Hurst Castle	64.2	52.2	57.2	55.8	3.35
Dover	62.9	55.0	57.9	55.3	2.86
LONDON	66.3	49.4	55.0	53.6	2.59
Oxford	63.8	49.1	54.2	52.3	2.91
Cambridge	65.5	48.1	54.4	52.9	2.48
Yarmouth	62.0	51.1	56.2	54.4	3.17

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, 30.3 ins: and upwards, in an anticyclone lying over Denmark, the Baltic, and the south of Scandinavia.
Lowest, 29.6 ins: and less, in a depression lying off the west of Ireland.
Gradients rather steep in the west and north-west, but slight elsewhere.
Barometer falling in most parts of our Islands and France, but steady at Valencia Island: rising in Scandinavia.

TEMPERATURE

Highest, 64° at Bumpness, 63° at Jersey, Scilly, and Biarritz, 62° at Valencia Island, and 61° at Nain, Holyhead, Rockport, and in London.
Lowest, 47° at Harpenden and Harpenden, 51° at Bodo, Digne, and Paris, 52° at Loughborough, and 53° at Christianund and Lushoven.
During yesterday the thermometer rose to 75° in London, 77° at Cambridge, and 78° at Loughborough.

WIND

SE or S² over our Islands and the North Sea, strong in force at the Irish stations, with a moderate gale in the west.
Light from the E² in Germany; variable in France and also in the north of Scandinavia.

WEATHER

Fine over the greater part of Western Europe, but dull in Denmark, the south of Norway, the northeast of Great Britain and the west coast of Ireland and France, heavy rain falling at Balmaleit. Fog prevails at Loughborough and Rockport.
Bright Aurora was seen last night at Christianund.

SEA

Rough at Valencia ^{Island} and Lisbon and rather rough at Rockport and off the north of Scotland, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A small and very shallow depression is now lying over the Channel, and is apparently moving northwards. The weather over England is, therefore, likely to become less settled, with some rain, and possibly thunder.

FORECASTS

For the 24 hours ending at NOON on 17th Sep^r 1890.

DISTRICTS.

FORECASTS.

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

S¹ and S² winds, freshening; cloudy, rain locally.
S¹ winds, freshening; fair generally.
Varying S¹ breezes; fine at first, but unsettled later, with local thunderstorms.

DISTRICTS.

FORECASTS.

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

SE and S¹ winds, freshening; fair generally.
Same as N¹ 3 to 5.
S¹ winds, strong; 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		WEA	SEA	BAR:	THER:		WIND		WEA	SEA
	D.	W.	D.	F.				D.	W.	D.	F.		
Skudesnaes ...	30.25	56	SE	2	f	2	Holyhead ...	29.95	69	SE	4	b	2
Sumburgh Head ...	30	55	SE	4	o	4	Valencia ...	29.77	63	SE	7	cm	6
Stornoway ...	29.80	65	S	3	b	3	Scilly ...	29.94	67	S	3	c	2
Aberdeen ...	30.06	57	SSE	4	o	4	Jersey ...	30.01	68	SE	2	b	2
Shields ...	30.06	60	SE	4	b	3	Dungeness ...	30.09	69	ESE	3	b	2
Ardrossan ...	29.92	65	SE	2	b	2	London ...	30.06	72	E	3	b	x
Malin Head ...	29.76	64	SSE	5	c	2	Yarmouth ...	30.15	63	SE	4	b	3
Mullaghmore ...	29.72	65	SSE	6	c	4	Rochefort ...	30.10	75	WSW	3	b	2
Belmullet ...	29.67	65	SSW	5	b	*							

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

Weather becoming less settled over the western parts of our Islands than of late, but continuing fine and bright over England and the greater part of western Europe and at many of the Baltic stations. Sky cloudy or overcast in Russia, Germany and Austria, with rain at Moscow and Kieff; fog reported at Münster, Faeder and Skudesnaes. Heavy rain at Belmullet during the day, little or none elsewhere.

Temperature showing no important change, morning readings still exceeding 70° on the western and southern coasts of the Mediterranean, and exceeding 60° over Spain and the south of France and several parts of the British Islands. As low as 42° at Archangel 45° at Helsingfors, 47° at St. Petersburg, Riga, Hermanstadt and Le Mans, 48° at Kharkov and Kieff. Rising during the day to between 70° and 78° over Great Britain and France, but not touching 70° at the Irish or German stations.

Wind S^W and SE^W over the British Islands, E^W in the Channel and west of France, very variable elsewhere, blowing very freshly on our western coasts, but with little strength in the east and south. A moderate to strong breeze from NE. reported in Italy and the Adriatic and a NW^W at Cagliari, Palermo and Malta. Brisk gale felt in the extreme west of Ireland later.

Barometer highest 30.1 ins. to 30.3 ins. in a large anticyclone covering Scandinavia, the Baltic, the North Sea, Germany, Austria and the east of France; lowest 29.8 ins. and less in a large disturbance off the west of Ireland, 29.9 ins. and less over the NE. of Russia, and also in a depression lying off the south of Italy. Falling over the United Kingdom all day, and gradients for S^W winds becoming rather steep over our western 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 *Wednesday, 17th September, 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 ...	30.53	45	2	0	bc	30.35	+1.9	50	49	+3	2	0	b	*	57	?	-	
	Hernösand ...	30.38	46	2	0	b	30.42	+1.5	49	49	+2	2	0	b	*	72	39	-	
	Stockholm ...	30.35	59	2	0	b	30.41	+0.9	53	52	+4	2	0	b	*	70	18	-	
	Wisby ...	30.37	51	W	4	0	30.38	+0.8	53	52	-1	WNW	4	b	*	61	46	-	
	Bodö ...	30.30	51	NNE	1	b	30.31	+0.4	51	49	0	2	0	b	0	54	45	-	
	Christiansund	30.30	52	N	1	b	30.30	+0.9	52	51	-1	SE	3	b	1	55	50	-	
	Skudesnaes ...	30.30	57	ESE	6	b	30.23	-0.0	60	54	+3	ESE	4	b	3	61	55	-	
	Christiania Fjord (Farder)	30.37	58	2	0	0	30.36	+0.3	55	54	0	ESE	3	0	1	59	55	-	
	Skagen (The Scaw)	30.36	58	2	0	b	30.38	+0.5	58	57	+1	SE	1	b	0	63	54	-	
	Fanö ...	30.28	54	ESE	4	b	30.26	-0.4	54	?	-1	ESE	4	b	*	61	52	-	
BRITISH ISLANDS.	Sumburgh Head	30.01	55	SE	4	0	29.99	-0.1	56	55	+1	SE	4	bc	5	58	53	-	
	Stornoway ...	29.75	64	SE	5	bc	29.68	-0.6	58	57	-1	W	6	0	6	66	54	0.02	
	Wick ...	29.90	57	S	6	bc	29.87	-0.7	57	56	0	S	5	0	5	60	55	-	
	Nairn ...	29.85	65	SSE	1	b	29.79	-1.0	62	57	+1	S	3	bm	2	73	54	-	
	Aberdeen ...	29.96	56	SSE	4	bcq	29.95	-0.6	56	55	+1	SSE	4	oq	5	57	55	-	
	Leith ...	29.88	68	SE	1	b	29.87	-0.9	58	55	-2	SSE	1	cm	*	75	52	-	
	Shields ...	29.95	58	ESE	4	m	29.92	-1.0	57	56	0	SE	3	c	4	63	53	-	
	Spurn Head ...	29.99	61	ESE	6	b	29.95	-0.9	60	58	-1	SE	5	bw	4	64	58	-	
	York ...	29.94	65	E	2	b	29.92	-1.1	58	56	+1	ESE	1	0	*	76	53	-	
	Loughborough	29.94	66	E	2	b	29.93	-1.0	56	54	+4	ESE	1	cmw	*	78	50	-	
GERMANY & HOLLAND.	Ardrossan ...	29.84	62	S	2	b	29.82	-0.7	59	57	-1	SE	3	tm	2	64	55	-	
	Malin Head ...	29.64	60	SSE	7	0	29.72	+0.4	54	50	-3	S	4	b	2	68	51	0.06	
	Mullaghmore ...	29.64	62	SE	1	c	29.71	+0.4	55	50	-5	S	5	bc	3	66	52	0.14	
	Belmullet ...	29.55	59	SSE	4	0	29.68	+1.0	56	54	-3	S	5	0	*	71	53	0.45	
	Donaghadee ...	29.82	59	SW	3	bc	29.81	-0.7	63	54	-4	SW	3	0	1	62	54	0.05	
	Liverpool (Bidston)	29.86	66	SSE	2	b	29.88	-0.8	58	55	+3	SE	2	0	3	72	51	-	
	Holyhead ...	29.85	59	SW	2	0	29.83	-1.0	60	56	-1	S	3	cy	2	65	56	-	
	Parsonstown ...	29.69	60	SE	2	0	29.75	-0.1	54	52	-5	2	0	cy	*	66	47	0.16	
	Valencia ...	29.45	58	SE	9	tm	29.70	+0.8	57	56	-5	ESE	5	tg	5	62	55	0.36	
	Roche's Point...	29.66	61	S	6	og	29.74	-0.3	59	56	-2	W	2	bc	4	64	54	0.25	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.84	59	S	5	c	29.81	-1.2	58	58	-1	SSE	4	0	6	63	57	0.03	
	Scilly ...	29.40	61	S	5	0	29.74	-1.5	58	58	-5	S	5	7	4	64	53	0.14	
	Prawle Point ...	29.90	57	SSE	2	bc	29.86	-1.2	60	59	+3	SSE	3	0	2	61	56	-	
	Jersey (St. Aubin's)	29.93	65	SE	1	b	29.90	-0.9	61	60	-2	E	1	omw	1	68	53	-	
	Hurst Castle ...	29.92	63	SE	2	b	29.91	-0.9	57	57	0	2	0	f	0	70	53	0.02	
	Dungeness ...	29.95	64	E	2	b	29.93	-1.1	64	62	0	SE	3	b	1	69	59	-	
	London ...	29.95	65	E	1	b	29.93	-0.9	61	57	0	SE	1	c	*	76	54	-	
	Oxford ...	29.93	60	N	1	b	29.92	-0.9	63	52	+2	2	0	bmw	*	74	47	-	
	Cambridge ...	29.96	62	SE	1	b	29.93	-1.1	61	59	+1	SE	1	c	*	77	52	-	
	Yarmouth ...	30.02	62	SE	4	b	29.98	-1.0	61	59	-1	SE	6	b	4	64	59	-	
PENIN- SULA.	Cuxhaven ...	30.26	56	SE	3	b	30.25	-0.2	55	52	+2	SE	4	b	*	63	?	-	
	Berlin ...	30.28	59	ESE	3	b	30.29	+0.2	53	49	-6	ESE	4	b	*	66	48	-	
	Wiesbaden ...	*	*	*	*	*	30.11	-0.7	54	51	-1	NE	1	b	*	64	46	-	
	Munich ...	30.14	53	NE	2	bc	30.18	+0.1	48	47	-1	E	3	f	*	61	45	-	
	The Helder ...	30.15	61	ESE	2	b	30.09	-0.8	57	54	-1	ESE	2	b	2	66	57	-	
	Brussels (9 a.m.)	*	*	*	*	*	30.00	-1.0	55	51	-3	SE	2	b	*	71	48	-	
	Cape Gris Nez	29.96	63	S	1	b	29.96	-0.8	57	51	-1	S	4	b	3	75	54	-	
	Paris ...	29.96	65	ESE	2	b	29.97	-0.7	55	52	+4	S	1	b	*	75	48	-	
	Brest ...	29.89	62	S	2	0	29.82	-1.7	60	59	+1	SW	3	c	4	77	50	-	
	Lorient ...	?	62	SSE	1	bc	29.87	-1.14	63	63	+8	S	2	m	4	68	55	-	
FRANCE AND BELGIUM.	Rochefort ...	30.01	66	NW	3	b	29.97	-1.2	63	62	+3	SE	4	7	*	?	55	-	
	Belfort ...	30.04	60	SW	1	b	30.10	+0.5	62	50	+6	E	1	b	*	64	50	-	
	Lyons ...	29.99	66	SSE	1	b	30.07	+0.1	60	57	+5	S	2	b	*	75	54	-	
	Nice ...	30.05	63	S	3	b	30.12	+0.5	60	51	0	NE	3	b	4	73	55	-	
	Perpignan ...	29.97	66	S	1	b	30.02	-0.4	66	63	+10	SE	3	bc	*	75	55	-	
	Biarritz ...	29.90	71	E	3	0	29.89	-1.1	68	61	+5	S	3	c	2	75	63	-	
PENIN- SULA.	Corunna ...	*	*	*	*	*	30.00	-0.5	64	63	+3	SSW	4	7	?	72	?	-	
	Lisbon ...	30.03	64	SW	3	0	30.00	-0.5	64	63	+3	SSW	4	7	?	72	?	-	

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, 17TH SEPTEMBER.

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:

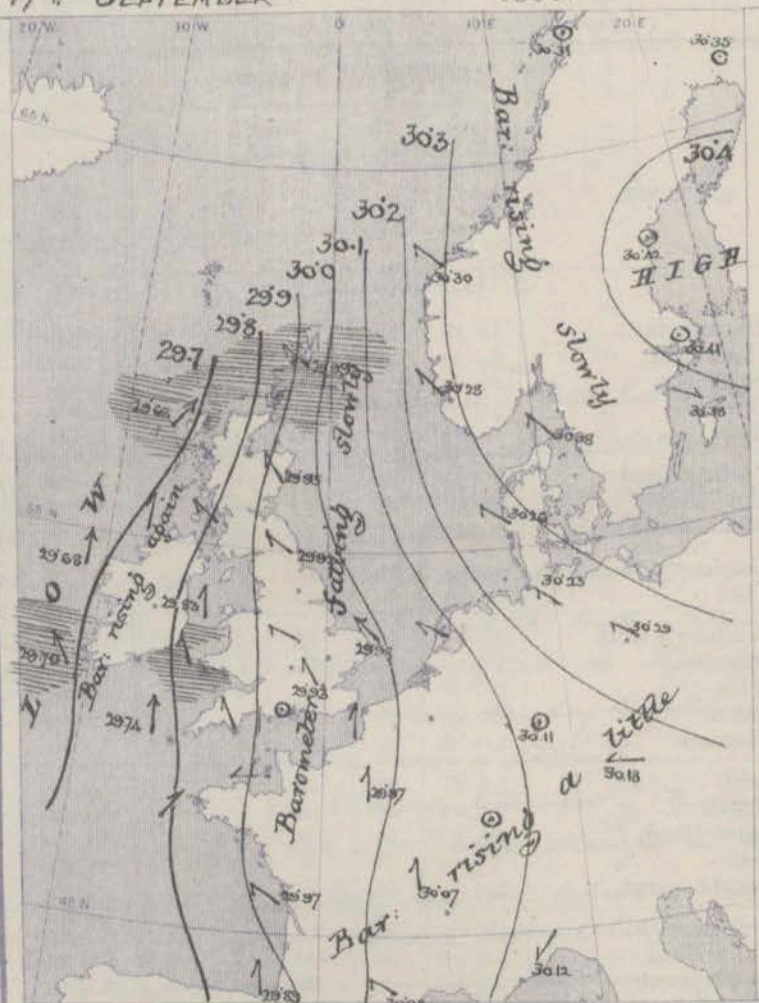
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.706
Stornoway	29.780
Wick	29.793
Nairn	29.809
Aberdeen	29.819
Leith	29.840
Shields	29.869
York	29.905
Loughborough	29.924
Ardrossan	29.850
Donaghadee	29.869
Holyhead	29.894
Liverpool	29.899
Parsonstown	29.904
Valencia	29.917
Roche's Point	29.915
Pembroke	29.913
Scilly	29.943
Jersey	29.955
Hurst Castle	29.960
Dover	29.941
LONDON	29.945
Oxford	29.935
Cambridge	29.931
Yarmouth	29.915



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.

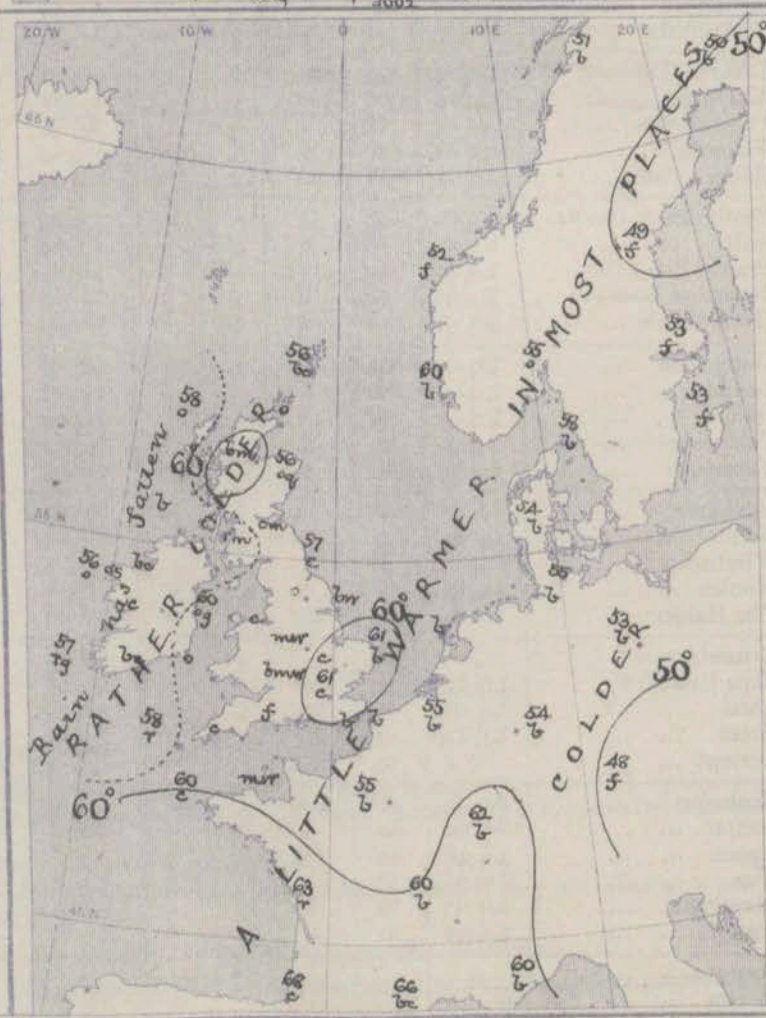
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of September.)

STATIONS.	TEMPERATURE.				RAINFALL (inches.)
	Daily Max.	Daily Min.	At 8 a.m.	Wet.	
Sumburgh Head	50.2	46.3	50.9	49.2	3.46
Stornoway	50.1	45.7	51.1	49.8	4.18
Wick	50.6	45.5	51.8	49.9	2.66
Nairn	50.0	46.8	51.2	48.8	2.73
Aberdeen	50.2	46.7	52.1	48.8	3.22
Leith	52.2	47.6	53.2	50.8	2.47
Shields	50.9	49.3	53.1	51.1	2.58
York	53.3	47.3	52.8	51.0	2.98
Loughborough	55.0	47.9	54.3	52.4	3.06
Ardrossan	59.7	49.6	53.5	51.3	3.87
Donaghadee	50.6	48.8	53.3	52.1	3.22
Holyhead	60.6	52.8	55.7	53.5	3.35
Liverpool	61.2	50.9	54.5	51.9	3.66
Parsonstown	64.6	47.5	53.1	51.1	3.40
Valencia	61.7	51.5	56.3	53.9	4.87
Roche's Point	61.9	51.0	55.4	53.2	4.39
Pembroke	60.2	55.1	56.2	53.8	3.89
Scilly	61.8	54.8	58.4	56.2	3.69
Jersey	65.2	54.9	60.8	57.1	3.51
Hurst Castle	64.2	52.2	57.2	55.8	3.35
Dover	62.9	53.0	57.9	55.3	2.86
LONDON	66.3	49.4	55.9	53.6	2.59
Oxford	63.8	49.1	54.2	52.3	2.91
Cambridge	65.5	48.1	54.4	52.9	2.48
Yarmouth	62.0	51.1	56.2	54.4	3.17

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, 30.3 in. to 30.4 in. and upwards, in a large anticyclone lying over Scandinavia, the Baltic, and the north of Denmark.
Lowest, 29.7 in. and less, in a shallow area lying to the westward of the United Kingdom.

Gradients moderate or slight generally. Barometer rising at several of our western stations and also in Scandinavia, but falling elsewhere.

TEMPERATURE

Highest, 68° at Kilmory, 66° at Kilmory, 64° at Buncrana and Lisbon, 63° at Rochfort, and 62° at Kelfort.

Lowest, 48° at Munich, 49° at Kilmory, 50° at Kilmory, 52° at Christiania.

The highest maxima registered over our Islands yesterday were 78° at Broughborough, 77° at Cambrige, and 76° at York and in London.

WIND

S. or SE. over nearly the whole of Western Europe, light or moderate in force generally, but fresh or strong at some of our extreme western stations, and also on the east coast of England. Calm in Sweden.

A strong gale from the SE. was experienced last night in the west of Ireland.

WEATHER

Fine over the greater part of our area, but dull at several of the southern, western, and northern stations, with rain at Ardara, Valencia Island, Bally and Rochfort. Fog prevails at many of the Scandinavian stations.

Rain fell yesterday in the western parts of the United Kingdom, the largest amount being 0.5 in. at Bilmullet.

SEA

Rough or rather so at several of our western and extreme northern stations, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The barometer is rising in the west, but falling in the south the latter change being due, apparently to some shallow disturbances over France and the Bay of Biscay. These may possibly move northwards, and occasion unsettled weather over England.

FORECASTS

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

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	SE winds, moderate to strong; cloudy squally, some rain.
1	SCOTLAND EAST	
2	ENGLAND N.E.	SE winds, fresh; fine to dull and some rain, thunder locally.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	SE and S winds, light, close, unsettled, some rain, thunder locally.
5	ENGLAND SOUTH	

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	Same as Nos 0. and 1.
7	ENGLAND N.W.	
8	ENGLAND S.W.	SE and S winds, strong at times.
9	IRELAND NORTH	
10	IRELAND SOUTH	

WARNINGS

The SOUTH CONE was hoisted yesterday in districts 0. 1. and 6 to 10.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnæs ...	30.28	61	56	SSW	6	b	4		Holyhead ...	29.91	65	59	SSW	6	2
Sumburgh Head ...	30.03	55	55	SE	4	0	5		Valencia ...	29.89	62	61	SE	8	6
Stornoway ...	29.74	66	62	S	6	b	6		Scilly ...	29.84	63	61	S	5	4
Aberdeen ...	30.01	56	56	SSW	3	0 m	4		Jersey ...	29.96	65	60	SSW	2	2
Shields ...	29.98	62	59	SSW	3	b	3		Dungeness ...	29.98	68	61	SSW	3	1
Ardrossan ...	29.87	63	59	S	3	b	2		London ...	29.97	73	63	SSW	3	3
Malin Head ...	29.63	66	59	SSW	7	c	3		Yarmouth ...	30.04	64	61	SE	4	3
Mullaghmore ...	29.66	65	58	SE	8	0	5		Rochefort ...	30.05	78	67	SE	0	2
Belmullet ...	29.57	64	59	S	5	0 u	*								

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

Weather fine and bright over the greater part of Europe, but foggy or misty in a few places; still dull over Northern and Central Russia, (but improving) and becoming much less settled than of late in the western parts of the British Islands. Rain subsequently, at all our station stations, but fine weather continuing elsewhere.

Temperature rising a little in the extreme west, falling somewhat over Russia, Poland, and Eastern Germany. Morning readings rather below 70° even in the south of Italy, but exceeding 60° at several Mediterranean stations and in many parts of the British Islands; much lower elsewhere, and as low as 44° at Archangel and Moscow, 46° at Ulsabog, and Kuopio, and Olsow, 47° at Haparanda, Helsingfors, Riga and Warsaw, 48° at Munich, 51° at Paris. Rising during day to between 70° and 75° over Great Britain and France, but remaining below 65° over the greater part of Ireland and Germany.

Wind light and anticyclonic over all countries lying to the eastward of the North Sea; SE^{ly} light over the greater part of England; S^{ly} and strong on the Irish coast and in the Hebrides; NE^{ly} in the north of Italy, N^{ly} at Rome, W^{ly} at Brindisi, Palermo and Malta. Blowing a gale from the SE^{ly} in the west of Ireland later, remaining light or moderate over Great Britain.

Barometer 30.0 ins. to 30.3 ins. and more, in a large anticyclone covering the whole of Scandinavia, the Baltic, Western Russia and Central Europe; lowest, 29.6 ins. and less over the west coast of the British Islands, 29.8 ins. and less, in a small depression lying at the mouth of the Adriatic. Falling decidedly in the west of Ireland later, but the depression over the Atlantic not spreading much in an easterly direction.

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, 18th September, 1890.*
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

Issued by the Meteorological Office, 65, 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.		Weather.	Sea. (0 to 3.)	SHADE TEMP.		Amount of Rainfall.	
	Reading at 3 ³⁰ P. and Sea Level.	Dry.	Dirce.	Force. (0 to 12.)		Reading at 3 ³⁰ P. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirce.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ...	30.37	48	2	0	b	30.34	-01	47	47	-3	2	0	Oct	*	57	?	-	
Hernösand ...	30.41	46	2	0	b	30.41	-01	47	46	-2	2	0	Oct	*	66	39	-	
Stockholm ...	30.43	52	2	0	b	30.50	+09	51	50	-2	SE	2	Oct	*	63	50	-	
Wistby ...	30.39	53	2	0	b	30.45	+07	52	50	-1	SSE	4	Oct	*	?	47	-	
Bodö ...	30.43	50	2	0	b	30.26	-05	48	46	-3	NE	1	Oct	1	54	45	-	
Christiansund ...	30.26	53	ESE	2	b	30.24	-06	52	50	0	E	2	Oct	2	57	52	-	
Skudesnaes ...	30.25	59	SSE	6	b	30.21	-07	60	53	0	SE	6	Oct	5	63	57	-	
Christiania Fjord (Færder)	30.38	58	N	3	0	30.38	+02	52	52	-3	ESE	3	Oct	1	59	52	-	
Skagen (The Scaw)	30.35	58	ESE	1	b	30.36	-02	57	55	-1	SE	1	Oct	2	64	55	-	
Fanö ...	30.22	54	ESE	6	b	30.21	-05	56	52	+2	ESE	6	Oct	*	64	52	-	
BRITISH ISLANDS.																		
Sumburgh Head	29.97	55	SE	5	bc	29.89	-10	55	55	-1	SE	5	Oct	6	58	52	-	
Stornoway ...	29.77	56	S	4	0	29.66	-02	56	56	-2	S	4	Oct	4	61	52	0.65	
Wick ...	29.76	56	S	5	0	29.80	-07	56	54	-1	S	4	Oct	5	58	54	0.15	
Nairn ...	29.81	61	2	0	b	29.74	-05	59	55	-3	SW	2	Oct	1	65	55	0.03	
Aberdeen ...	29.93	56	SE	4	eq	29.83	-12	56	55	0	SSE	3	Oct	5	57	55	0.13	
Leith ...	29.84	64	SE	1	0	29.78	-09	58	57	0	SSE	1	Oct	*	70	54	0.16	
Shields ...	29.89	57	ESE	4	C	29.82	-10	57	56	0	SE	3	Oct	4	61	53	0.03	
Spurn Head ...	29.91	60	ESE	5	b	29.84	-08	61	59	+1	SSE	4	Oct	4	61	58	0.08	
York ...	29.91	62	E	1	0	29.84	-08	59	58	+1	SE	1	Oct	*	70	56	0.24	
Loughborough	29.88	66	ESE	2	0	29.86	-07	61	60	+5	SSE	2	Oct	*	73	56	0.24	
Ardrrossan ...	29.80	61	2	0	om	29.75	-07	59	57	0	S	3	Oct	2	64	56	0.32	
Malin Head ...	29.73	57	SSE	4	0	29.72	-00	55	54	+1	N	3	Oct	2	64	52	0.85	
Mullaghmore ...	29.71	60	ESE	2	C	29.78	+07	54	52	-1	SSW	4	Oct	2	62	53	0.07	
Belmullet ...	29.71	57	W	2	C	29.80	+12	54	53	-2	WNW	1	Oct	*	61	49	0.01	
Donaghadee ...	29.79	57	S	2	r	29.77	-04	56	55	+1	W	3	Oct	1	59	54	0.30	
Liverpool (Bidston)	29.81	64	ESE	2	0	29.84	-04	59	57	+1	S	1	Oct	2	68	57	0.46	
Holyhead ...	29.80	59	SE	1	rgm	29.83	-00	56	56	-4	WNW	1	Oct	2	66	54	0.47	
Parsonstown ...	29.71	60	2	0	2	29.82	+07	52	51	-2	2	0	Oct	*	64	49	-	
Valencia ...	29.75	60	W	2	bc	29.84	+14	53	52	-4	2	0	Oct	1	65	48	0.04	
Roche's Point...	29.73	60	W	2	bc	29.84	+10	53	51	-6	WNW	1	Oct	3	64	47	-	
Pembroke (St. Ann's Hd.)	29.76	58	S	5	r	29.85	+04	58	57	0	WNW	3	Oct	4	62	55	0.36	
Scilly ...	29.77	58	WNW	2	C	29.86	+12	61	58	+3	WNW	1	Oct	4	61	53	0.41	
Prawle Point ...	29.81	59	S	2	r	29.90	+04	57	56	-3	W	3	Oct	3	62	55	0.15	
Jersey (St. Aubin's)	29.84	65	SE	3	op	29.95	+05	61	58	0	W	4	Oct	3	67	58	0.03	
Hurst Castle ...	29.85	63	ESE	2	r	29.88	-03	60	60	+3	SW	3	Oct	1	67	57	0.02	
Dungeness ...	29.89	64	SE	1	b	29.94	-01	63	62	-1	SW	4	Oct	2	68	60	0.24	
London ...	29.90	65	SE	2	0	29.90	-03	61	58	0	S	1	Oct	*	74	59	0.10	
Oxford ...	29.87	61	SE	2	0	29.84	-05	61	59	+8	SSE	1	Oct	*	71	52	-	
Cambridge ...	29.90	65	SE	1	C	29.89	-04	64	62	+3	S	1	Oct	*	76	58	0.01	
Yarmouth ...	29.96	62	SE	3	b	29.93	-05	62	61	+1	S	3	Oct	3	63	60	0.07	
GERMANY & HOLLAND.																		
Cuxhaven ...	30.14	54	ESE	4	b	30.21	-04	54	52	-1	SE	3	Oct	*	65	54	-	
Berlin ...	29.93	58	ESE	3	b	30.31	+02	51	49	-2	ESE	3	Oct	*	66	46	-	
Wiesbaden ...	*	*	*	*	*	30.16	+05	52	50	-2	2	0	Oct	*	64	46	-	
Munich ...	30.18	54	NE	1	b	30.23	+05	48	47	0	2	0	Oct	*	64	41	-	
The Helder ...	30.02	62	ESE	3	b	30.02	-07	60	58	+3	SE	2	Oct	3	66	57	-	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.)	*	*	*	*	*	30.01	+01	63	58	+8	ESE	2	Oct	*	75	?	-	
Cape Gris Nez	29.95	?	SE	1	C	29.91	-05	63	60	+6	SW	4	Oct	2	75	54	-	
Paris ...	29.95	68	SSE	1	C	30.02	+05	59	57	+4	SSE	2	Oct	*	79	?	-	
Brest ...	29.75	71	S	1	m	29.88	+06	59	58	-1	SW	1	Oct	5	79	54	0.47	
Lorient ...	29.84	62	WNW	5	0	29.94	+07	60	57	-3	SW	3	Oct	5	66	57	0.20	
Roche fort ...	29.96	68	SE	3	0	30.03	+06	62	61	-1	NE	3	Oct	*	75	57	-	
Belfort ...	30.11	63	SE	1	0	30.12	+02	55	47	-7	SE	1	Oct	*	74	47	-	
Lyons ...	30.04	66	ESE	1	b	30.12	+05	57	52	-3	SSE	1	Oct	*	75	52	-	
Nice ...	30.14	64	SW	3	C	30.19	+07	60	53	0	E	2	Oct	2	73	55	-	
Perpignan ...	30.04	67	SSE	3	0	30.08	+06	66	63	0	S	2	Oct	*	75	61	-	
Biarritz ...	29.90	72	E	2	C	30.03	+14	64	61	-4	N	4	Oct	3	84	61	0.16	
PENIN- SULA.																		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ...	30.08	62	WNW	4	b	30.15	+15	61	58	-3	WNW	1	Oct	6	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, 18th September,

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:

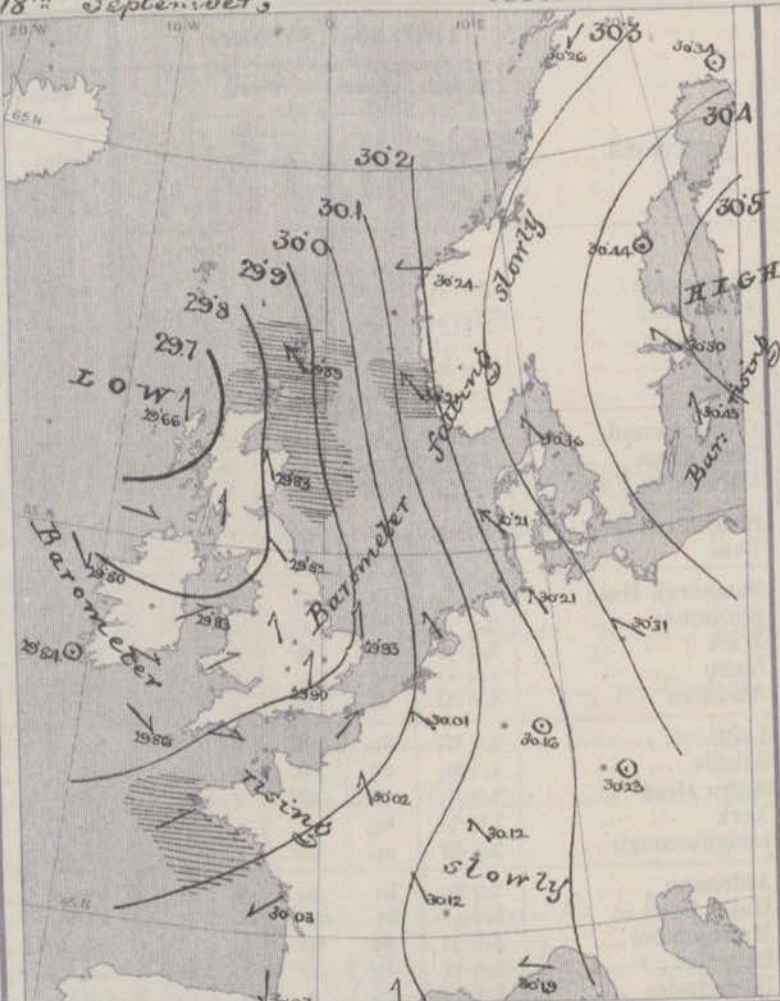
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sunburgh Head	29.766
Stornoway	29.780
Wick	29.793
Nairn	29.809
Aberdeen	29.819
Leith	29.846
Shields	29.869
York	29.905
Loughborough	29.924
Ardrossan	29.850
Donaghadee	29.869
Holyhead	29.894
Liverpool	29.899
Parsonstown	29.904
Valencia	29.917
Roche's Point	29.915
Pembroke	29.913
Selly	29.943
Jersey	29.955
Hurst Castle	29.960
Dover	29.941
LONDON	29.946
Oxford	29.935
Cambridge	29.931
Yarmouth	29.916



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.3 ins. to 30.5 ins. in a large anticyclone lying over Sweden, the Baltic, and Eastern Germany.
 Lowest, 29.7 ins. and less, in a depression lying off the northwest of Scotland.
 Gradient slight. Barometer falling in the north and east of our Islands and also over the North Sea, but rising elsewhere.

TEMPERATURE

Highest, 66° at Perpignan, 64° at Biarritz and Cambridge, and 63° at Dungeness, Cape Fin Vig, and Brussels.
 Lowest, 47° at Kapavandur and Hernand, 46° at Bodo and Munich, 51° at Stockholm and Berlin, and 52° at Gaeta, Amsterdam, and Nicolaesdam.
 The highest maxima registered over our Islands yesterday were 76° at Cambridge, 74° in London, and 73° at Loughborough.

WIND

Light or moderate from the SW^W or W^W in the west and extreme south of our Islands.
 S^W or SE^W in nearly all parts of Western Europe, but N^W at Rochefort, Biarritz and Lisbon.

WEATHER

Bull and unsettled over the northern and eastern parts of Great Britain and the west of France, with rain in many places.
 Fine in most other localities, but foggy at many of the Scandinavian stations.
 Since yesterday morning rain has fallen in nearly all parts of the United Kingdom, and thunderstorms have occurred over England and France.

SEA

Rough or rather so off the north and northwest of Scotland and also off the northwest of France, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Shallow depressions will probably continue to move northwards over the United Kingdom, and showery weather is therefore likely to prevail in most districts, with thunder in some parts of Great Britain.

FORECASTS

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

DISTRICTS.

FORECASTS.

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

SE^W and S^W winds, moderate or fresh; cloudy, rain at times, possibly thunder.
 S^W and SW^W winds, light; changeable; some showers, thunder locally.

DISTRICTS.

FORECASTS.

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

S^W and SW^W winds, light; cloudy, some rain.
 W^W to SW^W or S^W winds; fine to showery.

WARNINGS

None Issued.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA	SEA		BAR:	THER:		WIND		WEA	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	30.23	62	55	SSW	6	60	4		Holyhead ...	29.83	65	60	SSW	3	3
Sumburgh Head	29.98	57	56	SE	4	60	5		Valencia ...	29.73	65	60	SW	3	3
Stornoway ...	29.76	61	58	S	4	6	4		Scilly ...	29.74	57	56	W	3	4
Aberdeen ...	29.93	57	55	SSW	3	0	5		Jersey ...	29.89	65	62	SSW	2	2
Shields ...	29.90	60	57	SE	4	0	4		Dungeness ...	29.92	68	62	SE	1	0
Ardrossan ...	29.82	63	58	S	3	0	2		London ...	29.90	71	63	SSW	3	8
Malin Head ...	29.73	64	55	SSW	3	0	1		Yarmouth ...	29.98	63	59	SE	4	4
Mullaghmore ...	29.73	62	55	SSW	4	6	3		Rochefort ...	29.96	75	68	SE	3	2
Belmullet ...	29.71	59	57	S	3	0	*								

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

Weather still fine and bright over nearly the whole of Europe including the eastern part of England; changeable and unsettled at all stations situated over the western parts of the British Islands, France and the Spanish Peninsula, with rain in several places. Rain more or less in all parts of the United Kingdom later and in the west of France — most in Ireland, the northwest of England and the Hebrides — thunder and lightning in many parts of England.

Temperature in morning still exceeding 70° at some Algerian stations, and exceeding 60° over Southern Europe, the east of France, and some part of the British Islands, much lower elsewhere. Lowest of all 40° at Archangel and Uleabog, 41° at Kharkov, 42° at Warsaw, 44° at Kieff and Lemberg, and below 50° at several other stations over Central Europe. Rising later to between 70° and 76° over Central England, and to between 70° and 80° over France (84° at Biarritz); not touching 70° at the German stations.

Wind SE³ over the North Sea and greater part of England, as well as in Norway, S² over Ireland and Scotland, and moderate to fresh generally. Very light and variable over northern and southern Europe as well as over France, light E² to SE² over Germany, falling light and variable over our Islands later.

Barometer highest 30.2 ins: to 30.4 ins: and more, in a large anticyclone of irregular form covering the whole of Scandinavia, the Baltic, Western Russia, and central Europe; lowest 29.7 ins: and less, off the extreme northwestern and western coasts of the British Islands, and 29.9 ins: and less, in small local disturbances over the Bay of Biscay. Shallow local depressions appearing over France, the Channel, and England 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).

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DAILY WEATHER REPORT.

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

STATIONS.		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		BAROM. Reading at 32° F. and Sea Level.	TEMP. Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 4.)	SHADE TEMP.			
				Dirce.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirce.	Force. (0 to 12.)			Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.	Haparanda ...	30.31	50	2	0	f	30.29	+.05	51	51	+4	ESE	2	f	*	59	39	0.04	
	Hernösand ...	30.40	54	SSW	2	b	30.40	-.01	49	49	+2	W	0	b	*	70	41	-	
	Stockholm ...	30.53	51	W	0	0	30.55	+.05	53	50	+2	W	2	0	*	59	45	-	
	Wisby ...	30.49	51	NE	4	b	30.52	+.07	56	44	+4	ESE	4	b	*	63	48	-	
	Bodö ...	30.28	49	W	0	f	30.30	+.04	45	44	-3	W	0	f	0	35	45	-	
	Christiansund	30.19	51	ESE	1	b	30.26	+.02	50	46	-2	ESE	4	b	2	54	46	-	
	Skudesnaes ...	30.23	59	SE	6	b	30.21	-.00	60	54	0	ESE	6	b	4	57	-	-	
	Christiania Fjord (Færder)	30.38	59	N	3	b	30.43	+.05	55	53	+3	ESE	3	0	2	59	-	-	
	Skagen (The Scaw)	30.35	58	SE	2	b	30.38	+.02	55	54	-2	SE	3	0	2	63	54	-	
	Fanö ...	30.21	55	ESE	6	b	30.20	-.01	57	55	+1	ESE	6	b	*	66	54	-	
BRITISH ISLANDS.	Sumburgh Head	29.87	55	SE	4	r	29.94	+.05	55	55	0	SE	4	0	6	58	53	0.60	
	Stornoway ...	29.82	57	W	2	b	29.85	+.19	56	55	0	NE	3	b	3	63	45	0.03	
	Wick ...	29.85	57	S	2	0	29.90	+.10	55	55	-1	SSE	3	r	6	60	48	0.38	
	Nairn ...	29.84	59	W	1	b	29.87	+.13	54	52	-5	SW	1	m	1	69	49	-	
	Aberdeen ...	29.90	56	S	2	b	29.89	+.06	55	55	-1	SE	2	om	5	61	55	0.10	
	Leith ...	29.86	63	SSE	1	c	29.86	+.08	56	55	-2	SSE	1	om	*	69	50	-	
	Shields ...	29.88	59	SSE	1	0	29.88	+.06	57	56	0	SE	1	f	3	66	53	0.14	
	Spurn Head ...	29.90	61	SSE	3	c	29.92	+.05	57	56	-4	SEW	3	om	3	66	56	0.02	
	York ...	29.87	61	SE	1	0	29.91	+.04	56	55	-3	S	1	0	*	70	54	0.11	
	Loughborough	29.90	64	W	1	0	29.93	+.07	56	55	-5	ESE	2	cm	*	75	62	0.11	
GERMANY & HOLLAND.	Ardrossan ...	29.86	59	S	2	b	29.83	+.08	54	53	-5	ESE	1	cm	0	61	48	-	
	Malin Head ...	29.85	56	N	1	c	29.79	+.07	53	51	-2	SE	2	b	1	59	50	0.03	
	Mullaghmore ...	29.85	56	W	0	b	29.74	-.04	54	52	0	ESE	4	c	2	59	51	0.21	
	Belmullet ...	29.86	56	NE	2	0	29.70	-.10	53	52	-1	E	2	0	*	59	49	0.03	
	Donaghadee ...	29.87	59	SSW	2	b	29.82	+.05	56	55	0	ESE	3	c	1	67	53	-	
	Liverpool (Bidston)	29.90	58	NW	1	0	29.85	+.01	56	54	-3	SE	3	c	3	63	51	-	
	Holyhead ...	29.90	58	ESE	1	c	29.79	-.04	57	54	+1	SE	1	b	2	63	50	-	
	Parsonstown ...	29.84	58	W	0	c	29.71	-.11	57	54	+5	SE	1	c	*	65	50	0.03	
	Valencia ...	29.84	59	NW	1	c	29.64	-.20	56	54	+3	E	2	c	2	61	49	0.01	
	Roche's Point...	29.85	58	SSE	3	r	29.64	-.15	59	57	+6	SSE	4	b	4	63	50	0.15	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.89	57	SE	1	b	29.79	-.06	58	57	0	S	4	b	4	63	55	-	
	Scilly ...	29.84	56	E	1	c	29.74	-.12	59	57	-2	S	5	c	4	62	53	0.19	
	Prawle Point ...	29.91	58	SSE	2	b	29.86	-.04	58	56	+1	S	5	c	3	61	55	-	
	Jersey (St. Aubin's)	29.94	61	ESE	3	c	29.93	-.02	60	57	-1	SSE	4	c	3	62	54	-	
	Hurst Castle ...	29.95	61	SW	3	c	29.91	+.03	60	58	0	SW	3	b	1	66	58	-	
	Dungeness ...	29.96	58	WNW	3	clp	29.95	+.01	61	59	-2	SW	3	c	2	66	53	0.10	
	London ...	29.95	59	SSE	2	r	29.94	+.04	60	58	-1	S	1	b	*	69	53	0.16	
	Oxford ...	29.94	57	SW	1	b	29.91	+.04	55	54	-6	SSE	1	c	*	69	53	0.03	
	Cambridge ...	29.93	62	S	1	r	29.93	+.04	59	57	-5	S	1	b	*	71	53	0.10	
	Yarmouth ...	29.95	63	SSW	3	b	29.95	+.02	58	57	-4	W	0	c	2	65	55	0.45	
PENINSULA.	Cuxhaven ...	30.18	60	SE	4	b	30.18	-.03	57	53	+3	SE	4	b	*	66	?	-	
	Berlin ...	30.28	59	ESE	3	b	30.30	-.01	53	50	+2	ESE	3	b	*	68	50	-	
	Wiesbaden ...	*	*	*	*	*	30.15	-.01	53	51	+1	W	0	b	*	70	46	-	
	Munich ...	30.18	53	E	2	b	30.21	-.02	47	46	-1	W	0	m	*	64	41	-	
	The Helder ...	30.01	64	SE	1	b	30.02	+.00	61	59	+1	SE	1	b	1	68	57	-	
	Brussels (9 a.m.)	*	*	*	*	*	30.03	+.02	57	56	-6	SE	3	r	*	74	55	0.04	
	Cape Gris Nez	29.98	58	NW	1	b	30.00	+.09	58	57	-5	W	2	c	1	60	55	0.32	
	Paris ...	30.02	61	SSE	2	0	30.04	+.02	58	57	-1	S	2	0	*	71	57	0.08	
	Brest ...	29.87	62	S	3	b	29.82	-.06	60	56	+1	ESE	4	c	4	68	50	-	
	Lorient ...	29.93	61	SSW	3	b	29.92	-.02	60	55	0	SSW	3	c	4	66	57	0.04	
PENINSULA.	Rochefort ...	30.07	63	SW	3	0	30.07	+.04	61	60	-1	SW	4	0	*	68	55	0.71	
	Belfort ...	30.07	65	W	1	0	30.12	+.00	60	59	+5	W	1	0	*	73	50	-	
	Lyons ...	30.13	57	ESE	1	r	30.13	+.01	59	55	+2	S	2	b	*	68	50	0.35	
	Nice ...	30.17	61	SW	2	c	30.21	+.02	63	55	+3	W	0	c	2	72	59	-	
	Perpignan ...	30.03	64	S	3	c	30.10	+.02	60	59	-6	W	0	0	*	73	57	0.12	
	Biarritz ...	30.05	64	NE	3	0	30.01	-.02	58	57	-6	ESE	2	0	3	66	57	0.16	
	Corunna ...	*	*	*	*	*	30.07	-.08	62	60	+1	S	2	0	6	70	61	-	
	Lisbon ...	30.14	63	WNW	3	b	30.07	-.08	62	60	+1	S	2	0	6	70	61	-	

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

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

for 8 a.m. on Friday, 19th September,

1890

EXPLANATION OF MAP.

Changes since previous morning are stated in words.

*→ = forces above 10; → = forces 8 to 10;
 —→ = forces 5 to 7; — = forces 1 to 4.
 (•) = dead calm.

 = *Rough*, = *High*.

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

September 3, 1890.

Map showing isobars (pressure lines) and weather conditions over Europe and the North Atlantic. Key features include:

- Isobars:** Labeled with values such as 29.64, 29.7, 29.8, 29.85, 29.9, 30.0, 30.1, 30.2, 30.3, 30.4, 30.5, 30.59.
- Low Pressure System:** Located off the west coast of Ireland, labeled "LOW". A handwritten note "Barometer falling" with an upward arrow is present.
- High Pressure System:** Located over the British Isles, labeled "HIGH". A handwritten note "Barometer rising" with an upward arrow is present.
- Wind Arrows:** Indicate wind direction and speed. For example, arrows point from the southwest towards the low and from the north/northeast towards the high.
- Geographical Labels:** "Ireland", "Great Britain", "Scandinavia", "Russia".
- Coordinates:** Latitude lines (40°N, 50°N, 60°N) and longitude lines (20°W, 10°W, 0, 10°E, 20°E) are marked.

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

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 September.)

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

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.4 ins. to 30.5 ins. and upward, in an anticyclone lying over the Baltic and south of Sweden.
Lowest, 29.6 ins. and less, in a depression lying to the southward of Ireland.

Gradients slight. Barometer falling rather briskly in the west and southwest of our islands, but rising elsewhere.

TEMPERATURE

Highest, 63° at Nice, 62° at Lyons, 61° at Birmmgham and Antwerp, and 60° in London and at Hull, Cardiff, Jersey, Antwerp, Dordrecht, Bremen and Copenhagen.
Lowest, 45° at Porto, 44° at Munich, 43° at Copenhagen, and 51° at Kopenhagen.

The highest maxima yesterday over our islands yesterday were 75° at Loughborough, 71° at Cambridge, and 70° at York.

WIND

Light or moderate from the SE² in Ireland, Scotland, and the north of England, and strong from the same quarter on the eastern shores of the North Sea.
Fresh from the S² in the southwest of England, and light from the same quarter in France; variable in Sweden.

WEATHER

Fair over the greater part of Western Europe, but showery in the southwest of our islands, and raining at Niek.
Fog prevails in the northeast of England and also in the north of Scandinavia.
Thunderstorms were experienced yesterday in the east and southeast of England and also at Jico Key.

SEA

Moderate to smooth generally, but rough off the north and northeast of Scotland.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression which is approaching the south of Ireland will probably occasion a considerable increase of wind on our west and southwest coasts, with rain in most parts of the Kingdom.

FORECASTS

For the 24 hours ending at NOON on 20TH SEPT 1890.

DISTRICTS.

FORECASTS.

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

SE² winds, light to fresh; cloudy, some rain.
S² winds, freshening; changeable, some rain, thunder locally.

DISTRICTS.

FORECASTS.

- 6 SCOTLAND WEST
 - 7 ENGLAND N.W.
 - 8 ENGLAND S.W.
 - 9 IRELAND NORTH
 - 10 IRELAND SOUTH
- SE² winds, freshening considerably; fair to dull, and some rain.
S² winds, strong, squally, some rain.
Same as Nos 6 and 7.
SE² and S² winds, moderate to strong; squally, 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 ...	29.98	65	55	SE	6	bc	5		Holyhead ...	29.89	60	57	rw	1	2
Sumburgh Head ...	29.87	55	55	SE	4	r	6		Valencia ...	29.87	61	56	rw	2	2
Stornoway ...	29.74	68	61	SW	3	c	3		Scilly ...	29.85	57	57	s	3	4
Aberdeen ...	29.85	59	57	SE	3	bc	5		Jersey ...	29.96	62	59	SE	4	3
Shields ...	29.87	65	61	SE	3	c	3		Dungeness ...	29.97	65	60	SW	4	2
Ardrossan ...	29.84	60	57	S	2	bc	1		London ...	29.93	67	61	SW	3	8
Mulin Head ...	29.83	57	55	WVW	2	o	1		Yarmouth ...	29.94	64	61	s	5	4
Mullaghmore ...	29.88	57	54	WVW	2	cpv	2		Rochefort ...						
Belmullet ...	29.86	59	53	rw	2	c	*								

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

Weather still fine generally over the greater part of Europe, variable and changeable over the British Islands and France, with rain in several places; rain at Constantinople also. Thunderstorms later on several parts of our south and east coasts, rain at times in many parts of our Islands and France.

Temperature still exceeding 70° in some parts of Algeria, and exceeding 60° at the Mediterranean stations, in the west and north of France, and in some parts of England. Much lower elsewhere; as low as 40° at Archangel, 42° at Uleaborg and Kuopio, and below 50° over Lapland, the greater part of Russia, Austria, and Germany, and as low as 38° at Hermannstadt. Rising during day to between 60° and 70° over the British Islands, France, and Germany, but changes somewhat fitful and irregular.

Wind very variable; — W² on our southwest coasts, SW² in the Channel and north of France, SE² over Germany, and the North Sea, S² in Scotland. Light and very variable over northern, eastern, and central Europe; N² air appearing in Ireland later, very variable S² breezes over England and France.

Barometer highest 30.5 in. to 30.2 in. in an anticyclone of irregular form covering Iceland, the Baltic, Germany, Austria and Russia, and exceeding 30.1 in. over the southwest of Spain; lowest 29.7 in. and less, off our northern coasts, and below 30.0 in. over the English Channel. Gradients for S² winds somewhat steep over the North Sea. Rising a little at our northern stations, but beginning to fall again to the southwest.

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, 20th September, 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.		Weather.	Sea. (0 to 12.)	SHADE TEMP.		Amount of Rainfall.
	Reading at 32° F. and Sea Level.	Dry.	Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.	
SCANDINAVIA.																	
Haparanda ...	30.29	49	Z	0	0	30.23	-.06	51	50	0	S	2	b	*	54	46	-
Hernösand ...	30.32	51	Z	0	b	30.27	-.13	51	48	+2	ESE	2	b	*	64	41	-
Stockholm ...	30.47	51	Z	0	c	30.43	-.12	52	52	-1	S	2	b	*	63	48	-
Wisby ...	30.47	51	NNW	4	b	30.42	-.10	55	53	-1	ESE	4	b	*	63	48	-
Bodö ...	30.26	48	Z	0	b	30.17	-.13	49	46	+4	E	1	b	1	50	45	-
Christiansund ...	30.14	53	E	1	b	30.11	-.15	49	47	-1	ESE	1	m	1	63	48	-
Skudesnaes ...	30.26	60	ESE	6	bc	30.03	-.18	62	55	+2	ESE	6	c	4	64	57	0.20
Christiania Fjord (Fierder) ...	30.35	54	NNE	5	c	30.27	-.16	53	51	-2	NE	3	b	3	55	52	-
Skagen (The Scaw) ...	30.27	58	SE	3	b	30.18	-.20	58	55	+3	SE	4	c	3	64	54	-
Fanö ...	30.08	54	SE	6	b	30.04	-.16	56	53	-1	SE	6	b	*	66	55	0.04
Sumburgh Head ...	29.88	55	SE	5	r	29.81	-.13	55	55	0	SE	3	o	6	56	54	0.51
Stornoway ...	29.75	55	NE	3	b	29.63	-.22	54	54	-2	Z	0	o	2	60	45	0.01
Wick ...	29.82	55	S	2	o	29.73	-.17	55	54	0	S	2	r	3	57	54	0.05
Nairn ...	29.77	56	Z	0	c	29.66	-.21	57	55	+3	E	1	c	2	60	49	-
Aberdeen ...	29.86	55	SSE	2	o	29.72	-.17	54	54	-1	SE	3	om	4	56	54	0.01
Leith ...	29.78	58	E	1	c	29.64	-.22	56	55	0	E	1	om	*	61	52	-
Shields ...	29.82	57	ESE	3	c	29.62	-.26	56	55	-1	ESE	4	r	4	63	53	0.13
Spurn Head ...	29.85	61	ESE	5	bc	29.62	-.30	61	59	+4	SSE	6	bcg p	5	62	56	0.04
York ...	29.84	59	S	1	o	29.59	-.32	58	57	+2	SE	2	o	*	68	54	0.23
Loughborough ...	29.84	58	ESE	1	c	29.59	-.34	59	57	+3	SSE	2	c	*	69	52	0.10
Ardrossan ...	29.75	59	SE	1	bc	29.54	-.29	56	54	+2	ESE	3	cpm	2	64	52	0.03
Malin Head ...	29.64	58	SSE	4	b	29.45	-.34	56	53	+3	ESE	5	ogm	2	60	53	-
Mullaghmore ...	29.60	59	ESE	4	c	29.37	-.37	56	54	+2	E	5	o	4	62	54	0.06
Belmullet ...	29.55	59	SE	2	o	29.30	-.40	57	55	+4	E	5	o	*	64	52	0.04
Donaghadee ...	29.72	58	SSE	3	b	29.48	-.34	56	55	0	SSE	5	r	3	61	54	0.04
Liverpool (Bidston) ...	29.76	60	ESE	3	c	29.49	-.36	58	56	+2	ESE	4	c	3	66	55	0.11
Holyhead ...	29.72	59	ESE	2	c	29.44	-.35	56	55	-1	ESE	2	c	2	64	55	0.19
Parsonstown ...	29.58	58	SE	2	o	29.29	-.42	57	54	0	ESE	2	r	*	63	56	0.14
Valencia ...	29.33	60	E	6	r	28.96	-.68	57	56	+1	E	7	rmg	6	61	55	0.49
Roche's Point ...	29.45	59	SE	7	p	29.14	-.55	59	55	0	SSE	8	c	6	61	56	0.25
Pembroke (St. Ann's Hd.) ...	29.65	60	SE	5	c	29.37	-.42	58	57	0	SSE	6	ogp	6	61	56	0.08
Scilly ...	29.50	60	SSE	4	ogp	29.32	-.42	56	55	-3	S	7	o	5	61	50	0.08
Prawle Point ...	29.72	59	SE	6	c	29.51	-.35	57	54	-1	S	7	be	5	61	52	0.19
Jersey (St. Aubin's) ...	29.77	61	SE	3	op	29.65	-.28	61	56	+1	S	6	b	5	65	57	0.26
Hurst Castle ...	29.83	62	S	2	c	29.60	-.31	60	58	0	SSW	6	cp	2	66	58	0.25
Dungeness ...	29.89	60	S	2	c	29.69	-.26	62	59	+1	S	5	c	4	66	59	0.14
London ...	29.87	59	SSE	2	b	29.65	-.29	60	56	0	S	3	c	*	70	56	0.03
Oxford ...	29.82	56	SSW	2	o	29.58	-.33	59	57	+4	SSE	3	bcu	*	65	55	0.05
Cambridge ...	29.86	60	S	1	b	29.64	-.29	62	59	+3	S	1	o	*	70	54	0.04
Yarmouth ...	29.89	61	S	3	bc	29.71	-.24	61	59	+3	S	6	bcg	4	63	57	0.18
Cuxhaven ...	30.11	57	SE	3	b	30.07	-.11	57	53	0	SSE	3	b	*	67	56	-
Berlin ...	30.21	62	ESE	2	b	30.17	-.13	55	51	+2	ESE	3	b	*	70	50	-
Wiesbaden ...	*	*	*	*	*	30.04	-.11	59	57	+6	Z	0	o	*	64	50	-
Munich ...	30.19	54	Z	0	b	30.16	-.05	50	48	+3	E	2	b	*	64	45	-
The Helder ...	29.97	59	S	1	bc	29.85	-.17	60	58	-1	SE	2	bc	3	66	57	0.04
Brussels (9 a.m.) ...	*	*	*	*	*	29.83	-.20	61	57	+4	SE	4	c	*	65	56	0.08
Cape Gris Nez ...	29.90	59	SE	3	bc	?	?	61	58	+3	SW	4	o	4	68	55	-
Paris ...	29.94	64	SE	2	bc	29.83	-.21	62	57	+4	SSE	3	c	*	70	?	0.04
Brest ...	29.62	62	S	5	o	29.53	-.29	58	54	-2	NNE	6	o	7	70	52	0.47
Lorient ...	29.72	61	SSE	5	o	29.65	-.27	58	51	-2	SSW	7	bc	8	66	55	0.32
Rocheport ...	29.88	68	SSE	4	o	29.89	-.18	63	59	+2	SW	4	o	*	70	55	0.08
Belfort ...	30.04	64	W	1	o	30.02	-.10	59	50	-1	W	1	o	*	71	52	-
Lyons ...	30.02	62	S	4	r	30.03	-.10	59	54	0	S	3	r	*	72	57	0.39
Nice ...	30.21	62	SSW	3	o	30.20	-.01	60	52	-3	E	3	bc	2	73	55	-
Perpignan ...	29.97	70	S	4	o	29.95	-.15	60	64	+9	S	4	o	*	79	?	-
Biarritz ...	29.79	70	SE	3	o	29.89	-.12	63	61	+5	ESE	2	o	3	79	?	-
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lisbon ...	30.03	64	SSW	3	o	30.01	-.03	62	59	0	WNW	2	bc	6	66	59	0.04
PENIN-SULA.																	

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

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

WEATHER CHARTS

for 8 a.m. on

Saturday, 20th September,

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:—

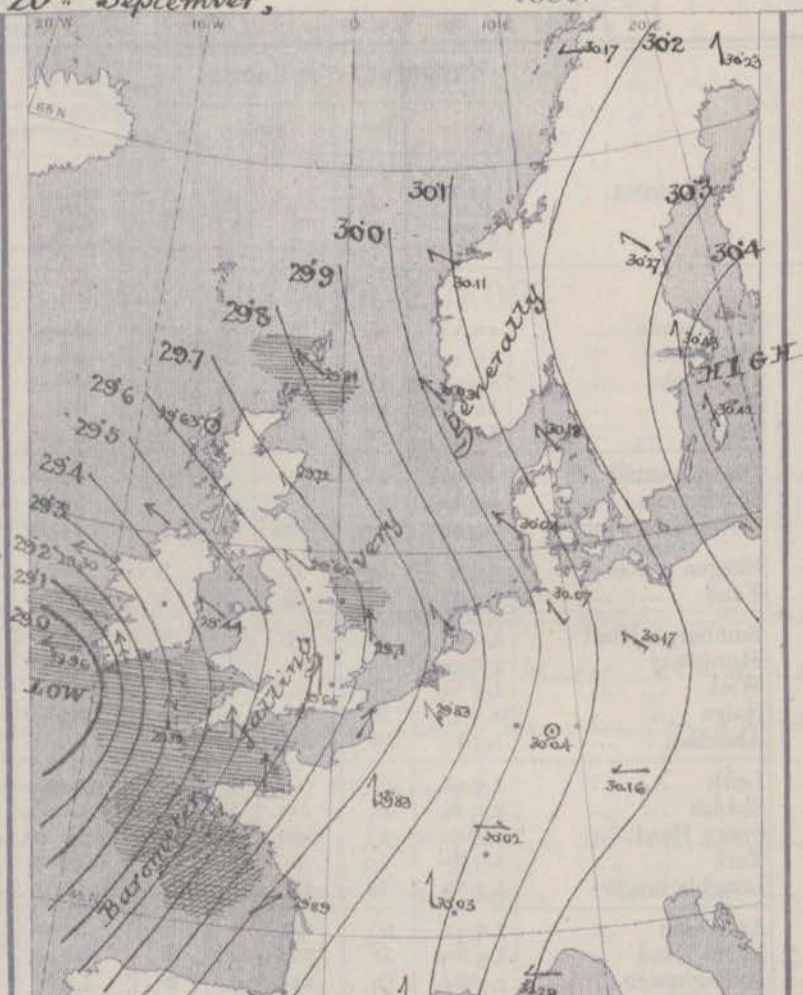
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.766
Stornoway	29.780
Wick	29.793
Nairn	29.809
Aberdeen	29.819
Leith	29.846
Shields	29.869
York	29.906
Loughborough	29.924
Ardrossan	29.850
Donaghadee	29.869
Holyhead	29.894
Liverpool	29.899
Parsonstown	29.904
Valencia	29.917
Roche's Point	29.915
Pembroke	29.913
Scilly	29.913
Jersey	29.955
Hurst Castle	29.960
Dover	29.941
LONDON	29.945
Oxford	29.936
Cambridge	29.931
Yarmouth	29.916



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.

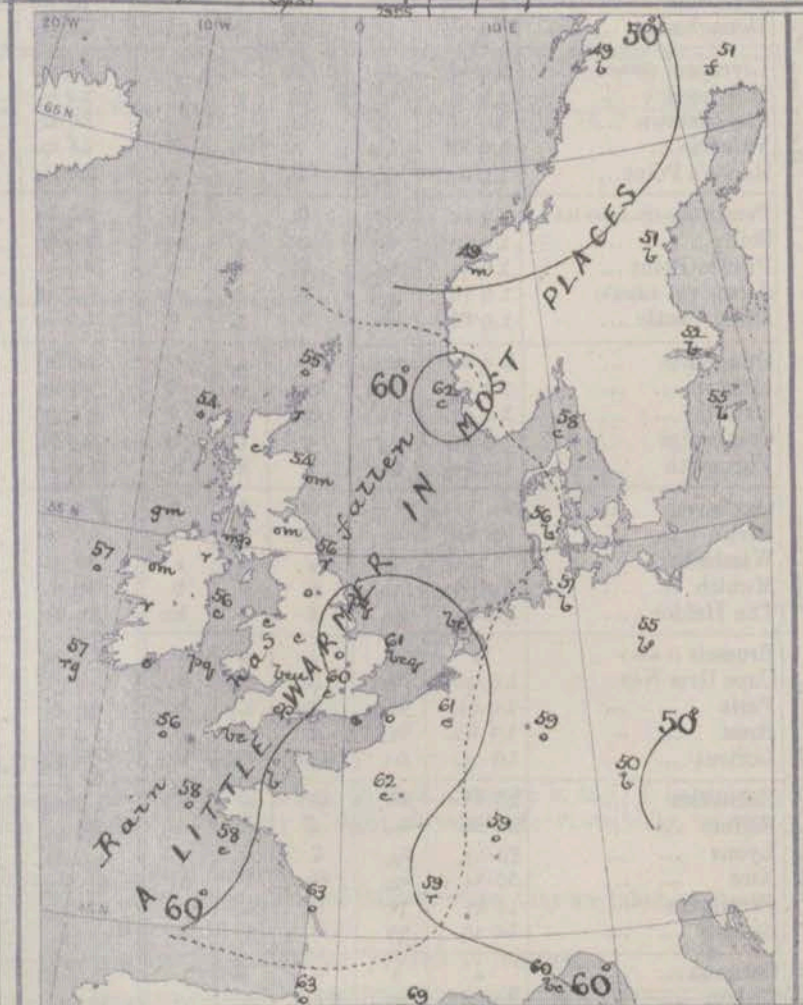
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of September.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	55.2	46.3	50.9	49.2	3.46
Stornoway	56.1	45.7	51.1	49.8	4.13
Wick	57.6	45.5	51.8	49.9	2.66
Nairn	59.0	46.8	51.2	48.8	2.73
Aberdeen	59.2	46.7	52.1	49.8	3.22
Leith	62.2	47.6	53.2	50.8	2.47
Shields	59.9	49.3	53.1	51.1	2.58
York	63.3	47.3	52.8	51.0	2.98
Loughborough	65.0	47.9	54.3	52.4	3.06
Ardrossan	59.7	49.6	53.5	51.3	3.87
Donaghadee.....	59.6	48.8	53.3	52.1	3.22
Holyhead.....	60.6	52.8	55.7	53.5	3.35
Liverpool	61.2	50.9	54.5	51.9	3.56
Parsonstown	61.6	47.5	53.1	51.1	3.49
Valencia	61.7	51.5	56.3	53.9	4.87
Roche's Point	61.9	51.0	55.4	53.2	4.39
Pembroke.....	60.2	53.1	56.2	53.8	3.89
Scilly	61.8	54.8	58.4	56.2	3.69
Jersey	65.2	54.9	59.8	57.1	3.51
Hurst Castle	64.2	52.2	57.2	55.8	3.55
Dover	62.9	53.0	57.9	55.3	2.86
LONDON	66.3	49.4	55.9	53.6	2.59
Oxford	63.8	49.1	54.2	52.3	2.91
Cambridge	65.5	48.1	54.4	52.9	2.48
Yarmouth	62.0	51.1	56.2	54.4	3.17

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. to 30.4 in. in an anticyclone lying over Sweden and the Baltic.
 Lowest, 29.0 in. and less, in a depression lying off the southwest of Ireland.
 Gradients steep in the southwest, moderate but increasing in other parts of our islands.
 Barometer falling generally, but less decidedly at Taleneia Island than in night.

TEMPERATURE

Highest, 63° at Loughmurry, 63° at Rochfort and Binnity, and 62° at Skutumpah, Binnigra, Cambridge, Paris and Lisbon.
 Lowest, 49° at Binnigra and Christiansund, 50° at Munich, 51° at Haparanda and Helsingfors, and 52° at Stockholm.
 The highest maxima registered over our islands yesterday were 70° in London and at Cambridge, and 63° at Loughborough.

WIND

S² over France and the south of England, strong in force at the Channel stations.
 SE or E elsewhere, with a gale in the south of Ireland.
 A fresh to strong gale from the S² was experienced last night over the western part of the Channel.

WEATHER

Fine at our southeastern and most of the Continental stations, but cloudy and unsettled in the west and north of our islands, with rain in many places.
 Since yesterday morning rain has fallen in nearly all parts of our islands and France, the largest amount being 0.5 in. at Sumburg, W. Taleneia Island and Brest.

SEA

High off the northwest of France, and rough on our southwestern and extreme northern coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression in the southwest continues to advance slowly, and a further increase in the steepness of the gradient is probable, especially over the northern parts of the United Kingdom.

FORECASTS

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

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
⚡ 0 SCOTLAND NORTH ⚡ 1 SCOTLAND EAST ⚡ 2 ENGLAND N.E. ⚡ 3 ENGLAND EAST 4 MIDLAND COUNTIES ⚡ 5 ENGLAND SOUTH	SE ² winds, increasing in force, cloudy, squally, rain at times. S ² winds, strong, a gale in places; squally, some showers.	⚡ 6 SCOTLAND WEST ⚡ 7 ENGLAND N.W. ⚡ 8 ENGLAND S.W. ⚡ 9 IRELAND NORTH ⚡ 10 IRELAND SOUTH WARNINGS	Same as Nos 0 to 2. S ² to SW ² strong winds and gales, squally, showery. Same as Nos 0 to 2. SE ² gales, moderating later; changeable, rain at times. The SOUTH CONE was hoisted last evening on all coasts.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	20.23	64	55	SE	7	bc	5		Holyhead ...	29.77	63	56	S	3	bc
Sumburgh Head ...	29.91	55	55	SE	5	r	7		Valencia ...	29.46	60	57	E	6	r
Stornoway ...	29.78	59	58	SE	0	bc	2		Scilly ...		65	59	SE	5	c
Aberdeen ...	29.86	55	55	SE	2	om	4		Jersey ...	29.87	65	61	SW	4	c
Shields ...	29.85	62	58	SE	3	c	3		Dungeness ...	29.93	64	60	SE	3	c
Ardrossan ...	29.76	63	60	SE	3	c	2		London ...	29.88	62	58	S	3	bc
Malin Head ...	29.71	57	55	E	4	c	2		Yarmouth ...	29.94	69	62	SE	3	o
Mullaghmore ...	29.63	61	56	SE	5	c	3		Rochefort ...	29.99					
Belmullet ...	29.60	63	58	SE	3	c	*								

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

Weather fine and bright over the greater part of the Continent, but cloudy or foggy in a few places; changeable over the British Islands (especially in the west and north) with rain at a few stations. Rain falling later in nearly all parts of the British Isles, and the west and north of France, but weather remaining fine to the eastward of the North Sea.

Temperatures fallen considerably in Russia, slightly and irregularly over England. Still exceeding 70° at some Algerian stations and exceeding 60° on most of the shores of the Mediterranean, the Bay of Biscay, and English Channel. Below 60° elsewhere, and as low as 35° at Moscow, 40° at Rieff and Hermannstadt, 41° at Odessa, 42° at Kharkov, and below 50° over Austria, Hungary, and South Germany, as well as at Rodo. Rising later to between 65° and 70° over England and Germany, and to between 70° and 80° in the west and south of France.

Wind light and anticyclonic over northern, eastern, central, and southern Europe, moderate from between S. and SE. over Western Europe and the British Islands. The S^W and SE^W winds increasing to a moderate gale on our southwestern coast later.

Barometer highest 30.2 ins. to 30.5 ins. and more, in a large anticyclone still covering the eastern half of Europe, its central parts being over the Baltic and Baltic Provinces; lowest 29.7 ins. and less, over the southwestern half of Ireland and the adjacent parts of the Atlantic. Gradients not steep anywhere. Falling in all parts of Western Europe later, as a large depression approached our southwestern coast 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 21st Sept. 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.	Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)		Max.	Min.	Amount of Rainfall.		
SCANDINAVIA.	Haparanda ...	30.10	49	2	0	0	30.03	-.20	47	47	-4	2	0	0	52	45	—	
	Hernösand ...	30.20	50	5	4	c	30.18	-.14	53	50	+2	SSW	2	0	70	41	—	
	Stockholm ...	30.35	51	5	2	b	30.25	-.18	56	54	+4	S	2	0	61	46	—	
	Wisby ...	30.34	51	5	4	b	30.25	-.17	57	54	+2	SSE	4	0	64	48	—	
	Bodö ...	30.05	50	2	0	b	30.00	-.17	49	46	0	E	1	0	57	43	—	
	Christiansund	30.02	53	ENE	1	b	29.93	-.18	50	51	+7	ESE	3	c	2	61	?	—
	Skudesnaes ...	29.97	62	ESE	6	bc	29.91	-.12	57	55	-5	ESE	6	r	4	64	55	0.51
	Christiania Fjord (Fæder)	30.17	59	2	0	c	30.08	-.19	54	52	+1	ENE	3	0	2	59	53	—
	Skagen (The Scaw)	30.12	59	SE	3	bc	30.00	-.18	59	57	+1	SSE	3	0	3	63	57	—
	Fanö ...	29.99	58	SE	5	c	29.95	-.20	59	57	+3	SSE	4	c	*	68	56	—
BRITISH ISLANDS.	Sumburgh Head	29.72	55	SE	4	0	29.63	-.18	55	55	0	SE	4	0	6	56	53	0.01
	Stornoway ...	29.40	58	SE	3	c	29.38	-.25	54	54	0	SE	3	0	3	61	50	0.04
	Wick ...	29.53	57	S	4	c	29.53	-.20	55	54	0	S	5	cq	5	57	53	0.04
	Nairn ...	29.45	57	SE	2	0	29.47	-.19	56	52	-1	2	0	c	1	62	57	0.02
	Aberdeen ...	29.57	56	SE	5	oq	29.59	-.13	55	52	+1	SSE	5	cq	5	58	54	0.06
	Leith ...	29.53	56	ESE	1	bc	29.51	-.18	54	51	-2	SE	1	c	*	65	50	0.08
	Shields ...	29.58	62	SSE	3	b	29.61	-.01	57	53	+1	SSE	4	c	4	63	52	0.02
	Spurn Head ...	29.67	61	SE	6	b	29.71	+ .04	57	55	-2	S	6	b	5	66	54	—
	York ...	29.62	61	SSE	2	b	29.66	+ .07	55	52	-3	S	2	bc	*	68	50	0.02
	Loughborough	29.62	59	SSE	3	bc	29.68	+ .09	56	53	-3	SE	4	b	*	67	51	0.13
GERMANY & HOLLAND.	Ardrossan ...	29.49	54	E	3	c	29.40	-.14	56	54	0	E	5	0	4	60	52	0.31
	Malin Head ...	29.29	55	SE	6	sp	29.14	-.31	57	56	+1	SSE	5	0	3	57	53	0.28
	Mullaghmore ...	29.21	58	SSE	5	c	29.26	-.31	57	55	+1	SE	5	pg	4	62	54	0.28
	Belmullet ...	29.16	58	E	4	c	29.04	-.26	57	56	0	N	1	0	*	61	54	0.11
	Donaghadee ...	29.39	58	SSW	5	bc	29.32	-.16	56	55	0	SSW	8	0	6	59	53	0.68
	Liverpool (Bidston)	29.57	55	SE	5	b	29.53	+ .04	56	52	-2	SE	5	c	4	63	53	0.05
	Holyhead ...	29.40	59	SSE	6	cq	29.42	-.02	57	54	+1	S	8	rgm	6	61	53	0.22
	Parsonstown ...	29.10	55	SE	2	r	29.14	-.15	58	55	+1	SSE	2	c	*	62	54	0.29
	Valencia ...	28.81	56	ENE	1	rm	29.23	+ .27	57	56	0	WSW	3	og	4	63	55	0.30
	Roche's Point...	29.00	59	S	8	c	29.25	+ .11	58	55	-1	SW	5	c	5	60	54	0.85
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.32	56	SSE	9	r	29.45	+ .08	58	57	0	S	7	cq	8	59	48	0.12
	Scilly ...	29.35	58	SSW	7	cw	29.46	+ .14	60	57	+4	SSW	6	c	5	60	53	0.07
	Prawle Point ...	29.58	55	SSW	8	r	29.62	+ .11	57	55	0	SSW	6	0	5	59	53	0.02
	Jersey (St. Aubin's)	29.70	61	SSW	5	cq	29.77	+ .07	60	57	-1	SE	6	pg	5	66	56	0.04
	Hurst Castle ...	29.68	58	SSW	6	bc	29.71	+ .11	58	56	-2	SSW	7	bc	4	64	55	0.14
	Dungeness ...	29.72	64	SSW	5	c	29.78	+ .09	60	57	-2	SW	6	c	5	66	58	0.01
	London ...	29.70	61	SSE	5	cq	29.75	+ .10	61	56	+1	SSW	4	c	*	68	53	—
	Oxford ...	29.68	53	SSW	2	b	29.69	+ .11	55	53	-4	S	2	c	*	64	52	0.21
	Cambridge ...	29.67	60	S	2	b	29.74	+ .10	56	54	-6	S	1	c	*	70	50	—
	Yarmouth ...	29.75	62	SSW	4	b	29.78	+ .07	59	56	-2	SSW	4	bc	3	65	54	0.02
GERMANY & HOLLAND.	Cuxhaven ...	30.05	62	SSE	2	b	30.04	-.03	64	60	+7	SSE	2	c	*	67	57	—
	Berlin ...	30.15	62	SE	4	b	30.12	-.05	59	52	+4	SE	4	c	*	70	52	—
	Wiesbaden ...	*	*	*	*	*	30.04	-.00	60	58	+1	2	0	c	*	68	55	0.28
	Munich ...	30.14	55	E	2	b	30.15	-.01	50	48	0	SW	1	c	*	68	45	—
	The Helder ...	29.89	62	SSE	1	c	29.89	+ .04	59	57	-1	S	1	bc	1	70	57	—
	Brussels (9 a.m.)	*	*	*	*	*	29.93	+ .10	60	57	-1	SSE	3	0	*	65	57	0.04
	Cape Gris Nez	29.77	59	SSW	4	c	29.87	+ .09	55	51	-6	SSW	4	bc	4	68	52	—
	Paris ...	29.89	61	SSW	1	0	29.92	+ .09	57	56	-5	SSE	2	c	*	72	54	0.08
	Brest ...	29.60	59	WSW	5	0	29.59	+ .06	54	56	+1	WSW	5	r	6	59	50	0.12
	Lorient ...	29.73	59	SSW	7	0	29.69	+ .04	60	56	+2	SSW	5	0	6	63	55	0.08
FRANCE AND BELGIUM.	Rochefort ...	29.91	61	N	4	0	29.88	-.01	58	55	-5	SE	4	0	?	68	52	—
	Belfort ...	30.02	64	SW	1	r	? 30.02	-.00	58	50	-1	SW	1	0	*	68	53	—
	Lyons ...	30.01	60	S	3	0	30.03	-.00	57	55	-2	S	2	c	*	65	54	1.65
	Nice ...	30.17	62	?	?	c	30.16	-.04	57	56	-3	ENE	2	0	4	72	55	0.16
	Perpignan ...	29.97	68	S	3	0	29.93	-.02	60	58	-9	N	2	bc	*	71	55	—
	Biarritz ...	29.88	70	E	2	0	29.83	-.06	61	57	-2	SE	3	0	6	75	59	—
	Corunna ...	*	*	*	*	*	29.91	-.13	64	61	+2	SW	5	0	?	72	61	—
	Lisbon ...	30.03	64	WSW	3	b	29.91	-.13	64	61	+2	SW	5	0	?	72	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, 21st September,

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:

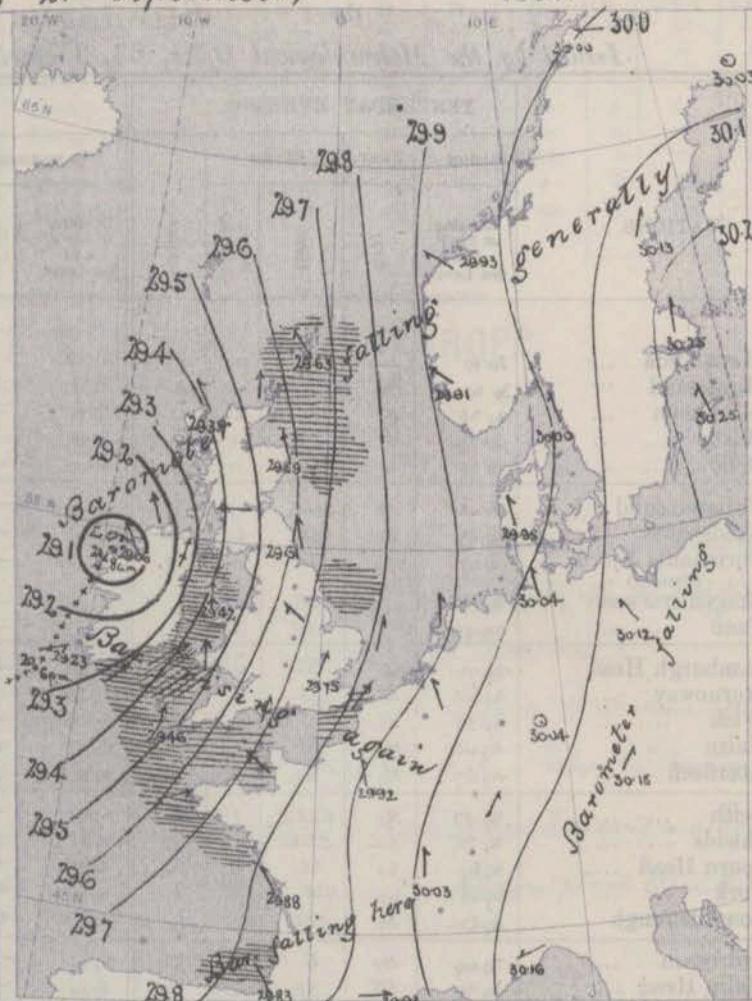
■ = Rough. ■ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.766
Stornoway	29.780
Wick	29.793
Nairn	29.809
Aberdeen	29.819
Leith	29.846
Shields	29.869
York	29.905
Loughborough	29.924
Ardrossan	29.850
Donaghadee	29.869
Holyhead	29.894
Liverpool	29.899
Parsonstown	29.904
Valencia	29.917
Roche's Point	29.915
Pembroke	29.913
Scilly	29.943
Jersey	29.955
Hurst Castle	29.960
Dover	29.941
LONDON	29.945
Oxford	29.935
Cambridge	29.931
Yarmouth	29.915



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 September.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Dry.	Wet.	
Sumburgh Head	55.2	46.3	50.9	49.2	3.46
Stornoway	56.1	45.7	51.1	49.8	4.13
Wick	57.6	45.5	51.8	49.9	2.66
Nairn	59.0	46.8	51.2	48.8	2.73
Aberdeen	59.2	46.7	52.1	49.8	3.22
Leith	62.2	47.6	53.2	50.8	2.47
Shields	59.9	49.3	53.1	51.1	2.58
York	63.3	47.3	52.8	51.0	2.98
Loughborough	65.0	47.9	54.3	52.4	3.06
Ardrossan	59.7	49.6	53.5	51.3	3.87
Donaghadee	59.6	48.8	53.3	52.1	3.22
Holyhead	60.6	52.8	55.7	53.5	3.35
Liverpool	61.2	50.9	54.5	51.9	3.56
Parsonstown	61.6	47.3	55.1	51.1	3.49
Valencia	61.7	51.5	56.3	53.9	4.87
Roche's Point	61.5	51.0	55.4	53.2	4.39
Pembroke	60.2	53.1	56.2	53.8	3.89
Scilly	61.8	54.8	58.4	56.2	3.69
Jersey	65.2	54.9	59.8	57.1	3.51
Hurst Castle	64.2	52.2	57.2	55.8	3.55
Dover	62.9	53.0	57.9	55.3	2.86
LONDON	66.5	49.4	55.9	53.6	2.59
Oxford	63.8	49.1	54.2	52.3	2.91
Cambridge	65.5	48.1	54.4	52.9	2.48
Yarmouth	62.0	51.1	56.3	54.4	3.17

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 the Baltic.
Lowest, 29.1 in. and less, in a depression lying over the northwest of Ireland.
Gradients rather steep over the western and northern parts of the Kingdom, but moderate or slight elsewhere.
Barometer rising over England, the Netherlands, and the south of Ireland, but falling in nearly all other places.*

TEMPERATURE

*Highest, 64° at Copenhagen and Lisbon, 61° in London and at Biarritz, and 60° at Buzen, Jersey, Brest, Wiesbaden, Lorient and Perpignan.
Lowest, 47° at Haparanda, 43° at Hilo, 50° at Munich, 53° at Harbin, and 54° at Stornoway, Leth, and Bergen.
The highest maxima registered over our islands yesterday were 70° at Hamlet, and 68° at York and in London.*

WIND

*SW over the southern parts of Ireland and England; strong in force at the Channel stations.
S or SE elsewhere; light to fresh in force generally, but strong to a gale over the Irish Sea.
Trunk to strong gales were experienced yesterday at many of our western and southern stations.*

WEATHER

*Fine in the east and southeast of England and also in Sweden, but cloudy in most other parts of our area, with rain at some of our northern stations, as well as at Skidmore and Brest.
Rain fell generally yesterday the amount being 0.3 in. at Fochelout and 0.7 in. at Donaghadee.
Lightning was seen last night in several parts of Great Britain and thunder occurred at Oxford.*

SEA

Very high at Pembroke and rough or rather so on nearly all parts of our coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 22nd SEPT 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 is still flying on all our coasts.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.99	64	59	ESE	8	c	5	Holyhead ...	29.42	59	55	SSE	6	cpq	6
Sumburgh Head ...	29.75	55	55	SE	3	o	6	Valencia ...	28.85	63	60	E	5	omp	5
Stornoway ...	29.50	60	59	SE	4	c	14	Scilly ...	29.31	57	56	S	7	or	6
Aberdeen ...	29.58	57	56	SE	6	c	6	Jersey ...	29.67	64	59	SSW	6	c	5
Shields ...	29.53	60	58	SE	5	cp	5	Dungeness ...	29.78	65	61	SSW	6	c	4
Ardrossan ...	29.41	59	54	E	3	r	2	London ...	29.70	65	59	SE	5	c	*
Malin Head ...	29.31	56	55	SE	4	o	2	Yarmouth ...	29.71	65	60	SSW	6	bp	4
Mullaghmore ...	29.24	61	57	E	5	cp	3	Rochefort ...	29.97	66	58	SW	4	o	2
Belmullet ...	29.20	60	59	E	4	o	*								

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

Weather cloudy and unsettled over nearly the whole of Western Europe, with rain or passing showers in many parts of the United Kingdom and France. Fine in most of the northern, eastern, and central countries, but dull at some of the Russian stations. Thunderstorms occurring later in several parts of England and France, with very heavy rain in the latter country (Marseille 3.0 in.; Lyons 1.7 in.).

Temperature highest 78° at Algiers, 74° at Barcelona, and 71° at Cagliari and Malta; above 60° over Southern Europe generally and also over France, the Netherlands and the southeast of England. Lowest 41° at Nicobariff, 42° at Narau, Lemberg, Kiev, and Kharkov, and 43° at Odessa; below 50° at most of the Russian stations and also in the west of Norway. Daily maxima below 70° in nearly all parts of the United Kingdom, but exceeding that point in Southern Europe. Highest reading of all 86° at La Calle, and 84° at Tunis and Berbera.

Wind SE³ or E² over the greater part of Western and Central Europe, but S¹ over France and the south of England; strong in force on many of the Irish and Scotch coasts, with a moderate to fresh gale in the southwest. Light and variable in Russia, Italy, Algeria, and the south of Spain. Strong NE³ squalls setting in later over the extreme south of France.

Barometer highest, 30.4 in. and upwards in an anticyclone lying over the Baltic and the western part of Russia. Lowest, 29.0 in. and less, in a depression lying off the southwest of Ireland; gradients rather steep over the Bay of Biscay, and over extreme southwest coasts. Depression subsequently advancing slowly northwards, but barometer beginning to rise again at several of the English and French stations.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for *Monday, 22nd September, 1890.*
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		Barom. Reading at 32° F. and Sea Level.	TEMP. Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 10).	SHADE TEMP.		Amount of Rainfall.	
				Dir.	Force (0 to 12).		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force (0 to 12).			Max.	Min.		
SCANDINAVIA.	Haparanda ...	30.00	48	N	0	0	29.91	- 12	53	53	+ 6	NNW	2	0	*	?	43	-	
	Hernösand ...	30.04	55	SSW	2	6	29.97	- 16	57	54	+ 4	SSW	4	6	*	68	46	-	
	Stockholm ...	30.15	64	S	1	6	30.10	- 15	57	55	+ 1	S	2	6	*	63	?	-	
	Visby ...	30.17	53	SSE	2	6	30.10	- 15	57	55	0	SE	4	6	*	68	48	-	
	Bodö ...	29.86	50	N	0	6	29.70	- 30	54	49	+ 5	E	2	0	1	64	45	-	
	Christiansund ...	?	57	N	2	C	29.74	- 19	53	51	- 3	ESE	1	0	1	64	52	-	
	Skudeaues ...	29.84	59	SSE	6	6c	29.63	- 28	57	56	0	ESE	2	7	3	59	57	0.83	
	Christiania Fjord (Fjord)	29.97	58	SSE	3	7	29.89	- 19	57	53	+ 3	SE	3	0	3	59	?	0.24	
	Skagen (The Sea)	29.93	58	SSW	3	0	29.86	- 14	58	56	- 1	S	3	0	3	63	54	-	
	Fanö ...	29.89	58	SE	5	6c	29.76	- 19	58	55	- 1	SSE	5	0	*	66	52	-	
BRITISH ISLANDS.	Sumburgh Head	29.58	55	SE	4	C	29.49	- 14	55	55	0	SE	3	0	5	58	52	-	
	Stornoway ...	29.37	57	SE	2	0	29.39	+ 0.1	55	55	+ 1	SE	2	7	3	58	52	0.08	
	Wick ...	29.50	56	S	4	6c	29.43	- 10	53	52	- 2	S	1	6c	1	60	52	-	
	Nairn ...	29.45	57	SE	2	C	29.41	- 0.6	48	46	- 8	2	0	6	0	65	46	-	
	Aberdeen ...	29.56	55	SSE	5	6c	29.46	- 13	53	52	- 2	SW	1	0	4	59	52	-	
	Leith ...	29.50	59	E	1	6c	29.45	- 0.6	55	52	+ 1	SSE	2	C	*	65	49	-	
	Shields ...	29.57	60	S	4	C	29.50	- 11	55	54	- 2	S	3	0	3	62	51	0.21	
	Spurn Head ...	29.64	61	S	5	C	29.62	- 0.9	57	54	- 2	SSW	4	6	4	63	53	0.04	
	York ...	29.62	57	S	1	0	29.59	- 0.7	53	52	- 2	S	2	6	*	65	51	0.43	
	Loughborough	29.64	56	S	4	0	29.63	- 0.5	55	53	- 1	SSW	3	6	*	64	51	0.69	
BRITISH ISLANDS.	Ardrossan ...	29.41	58	S	5	0	29.39	- 0.1	56	55	0	SSE	4	0	3	60	55	-	
	Malin Head ...	29.16	57	SSE	6	0	29.34	+ 2.0	54	54	- 3	S	4	0	2	60	54	0.50	
	Mullaghmore ...	29.19	57	SW	4	0	29.43	+ 3.7	56	55	- 1	NNW	6	0	5	59	53	0.31	
	Belmullet ...	29.25	56	NW	4	0	29.54	+ 5.0	55	53	- 2	NNW	5	0	*	59	53	0.12	
	Donaghadee ...	29.36	57	SSW	7	0	29.43	+ 1.1	55	55	- 1	SW	3	C	3	60	54	-	
	Liverpool (Bidston)	29.53	54	SSE	3	6c	29.55	+ 0.2	54	52	- 2	SSE	2	6c	3	62	50	0.02	
	Holyhead ...	29.45	59	S	6	0	29.50	+ 0.8	54	55	+ 2	SW	4	0	4	62	58	0.28	
	Parsonstown ...	29.33	65	2	0	7	29.51	+ 3.7	53	52	- 5	2	0	C	*	59	52	0.85	
	Valencia ...	29.42	57	NW	1	6	29.62	+ 3.9	57	56	0	NW	2	0	3	63	53	0.20	
	Roche's Point...	29.39	59	SW	5	6c	29.58	+ 3.3	55	53	- 3	NW	3	6c	3	63	52	-	
BRITISH ISLANDS.	Pembroke (St. Ann's Hd.)	29.49	58	S	5	6c	29.56	+ 1.1	58	58	0	SSW	4	6c	5	60	54	0.52	
	Scilly ...	29.52	58	SSW	4	C	29.59	+ 1.3	58	57	- 2	NW	2	0	3	63	54	-	
	Prawle Point ...	29.59	56	S	4	0	29.66	+ 0.4	57	56	0	SSW	5	0	4	59	54	0.01	
	Jersey (St. Aubin's)	29.63	58	S	4	0	29.77	+ 0.5	60	57	0	SSW	4	0	4	62	56	0.34	
	Hurst Castle ...	29.62	57	SW	1	7	29.70	- 0.1	58	57	0	SW	5	7	4	64	56	0.54	
	Dungeness ...	29.69	64	S	3	0	29.74	- 0.4	60	56	0	SW	6	C	4	66	59	0.11	
	London ...	29.65	62	S	2	0	29.71	- 0.4	58	55	- 3	S	2	6	*	68	54	0.04	
	Oxford ...	29.61	54	N	0	7	29.67	- 0.2	55	54	0	S	1	6	*	62	51	0.68	
	Cambridge ...	29.63	62	S	2	0	29.68	- 0.6	58	55	+ 2	S	2	6	*	68	53	-	
	Yarmouth ...	29.73	62	S	5	C	29.71	- 0.7	58	55	- 1	NW	4	6	3	63	54	0.09	
GERMANY & HOLLAND.	Cuxhaven ...	29.94	62	SSE	2	6	29.84	- 2.0	61	58	- 3	SSE	2	C	*	72	59	-	
	Berlin ...	30.04	61	SE	3	6	30.03	- 0.9	55	52	- 4	SE	3	6	*	70	52	-	
	Wiesbaden ...	*	*	*	*	*	29.96	- 0.8	60	59	0	2	0	0	*	72	57	0.04	
	Munich ...	30.08	55	SE	1	6	30.08	- 0.7	56	52	+ 6	SE	3	6	*	72	46	-	
GERMANY & HOLLAND.	The Helder ...	29.70	64	ESE	2	6	29.76	- 0.6	62	60	+ 3	SSW	2	0	3	63	59	0.04	
	Brussels (9 a.m.)	*	*	*	*	*	29.83	- 1.0	61	58	+ 1	SSE	5	6c	*	69	57	0.12	
	Capé Gris Nez	29.74	63	SW	4	7	29.75	- 1.2	59	56	+ 4	SW	5	C	5	70	52	0.16	
	Paris ...	29.76	61	SE	2	0	29.86	- 0.6	60	59	+ 3	NNW	1	0	*	?	57	0.35	
FRANCE AND BELGIUM.	Brest ...	29.57	59	SW	3	0	?	?	60	57	+ 1	?	4	6c	5	77	51	-	
	Lorient ...	29.63	58	SW	4	7	29.76	+ 0.7	59	55	- 1	SW	4	C	5	59	55	0.35	
	Rochefort ...	29.76	63	SSW	5	7	29.90	+ 0.2	62	59	+ 4	SW	3	7	2	72	55	-	
	Belfort ...	*	*	*	*	*	29.95	- 0.8	60	60	+ 3	SE	1	7	*	73	55	0.63	
FRANCE AND BELGIUM.	Lyons ...	29.90	65	S	2	0	30.09	- 0.7	63	59	+ 6	E	2	C	5	70	?	0.16	
	Nice ...	30.12	64	SW	3	C	30.09	- 0.7	63	59	+ 6	E	2	C	5	70	?	0.16	
	Perpignan ...	29.86	68	S	3	0	29.87	- 0.6	65	64	+ 5	SW	2	0	*	80	?	-	
	Biarritz ...	29.76	68	N	3	7	29.83	- 0.0	63	60	+ 2	E	2	0	3	75	?	0.16	
PENINSULA.	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Lisbon ...	29.89	62	NW	2	0	29.95	+ 0.4	59	57	- 5	SW	3	C	4	70	59	0.55	

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, 22nd September, 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:

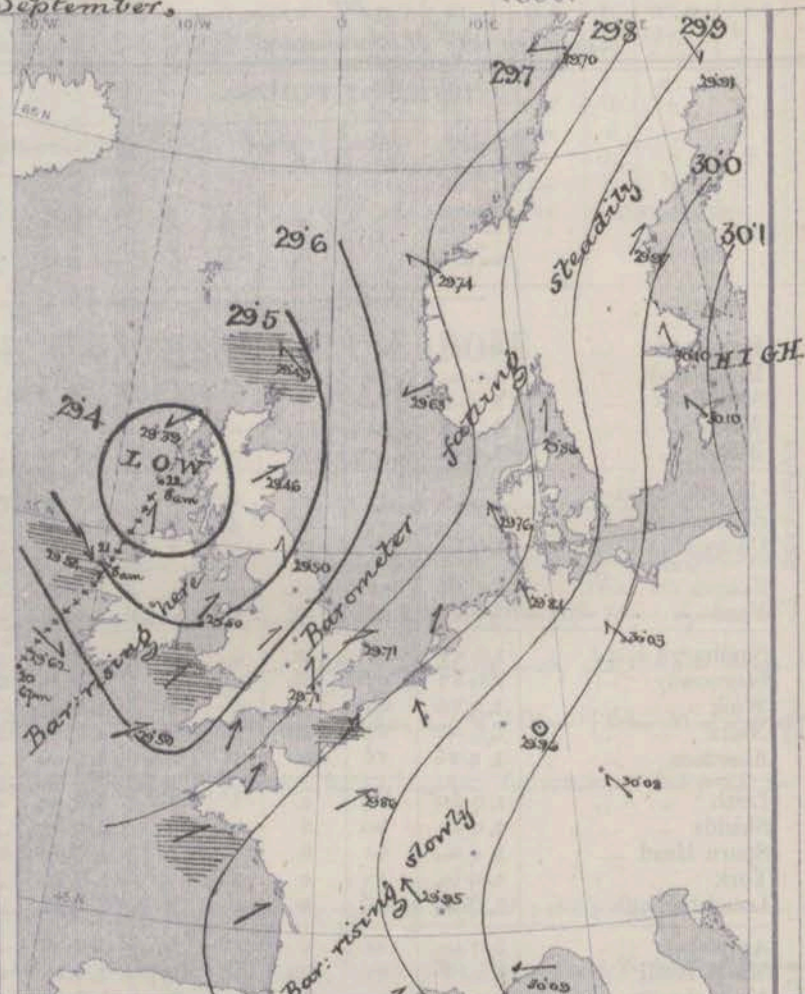
▨ = Rough. ▩ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.766
Stornoway	29.780
Wick	29.793
Nairn	29.809
Aberdeen	29.819
Leith	29.846
Shields	29.869
York	29.905
Loughborough	29.924
Ardrossan	29.850
Donaghadee	29.869
Holyhead	29.894
Liverpool	29.899
Parsonstown	29.904
Valencia	29.917
Roche's Point	29.915
Pembroke	29.913
Scilly	29.943
Jersey	29.955
Hurst Castle	29.960
Dover	29.941
LONDON	29.945
Oxford	29.935
Cambridge	29.931
Yarmouth	29.916



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.

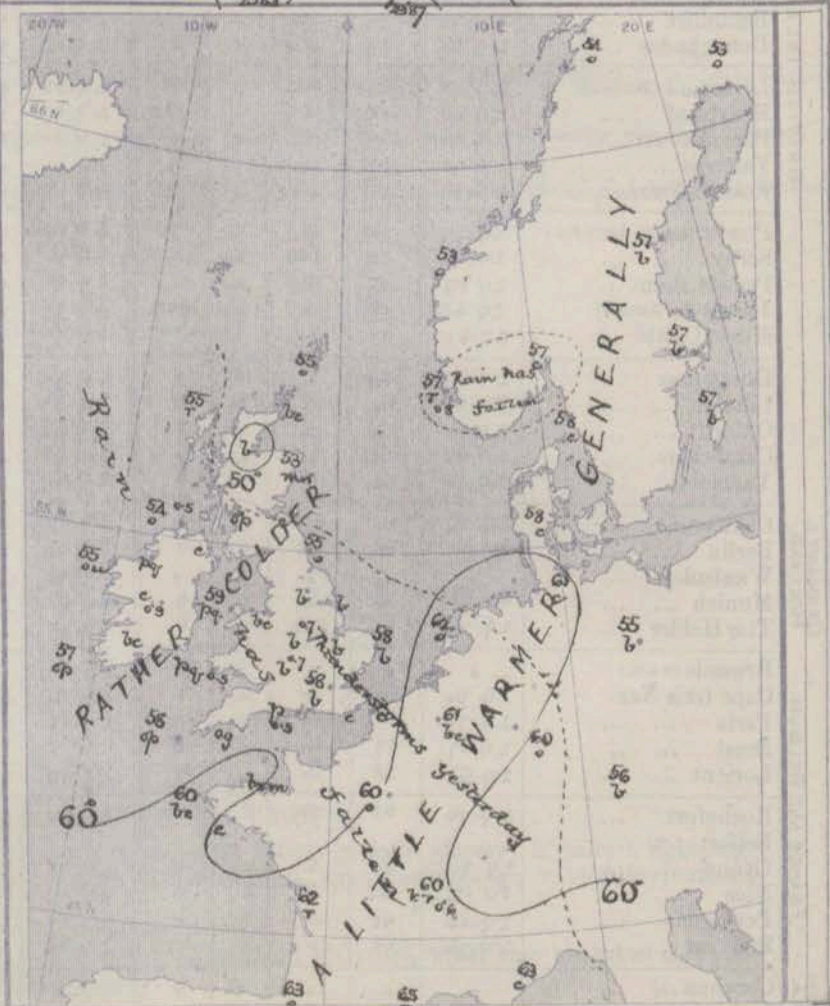
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL

(For the month of September.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	55.2	46.3	50.9	49.2	3.46
Stornoway	56.1	45.7	51.1	49.8	4.13
Wick	57.6	45.5	51.8	49.9	2.66
Nairn	59.0	46.8	51.2	48.8	2.73
Aberdeen	59.2	46.7	52.1	49.8	3.22
Leith	62.2	47.6	53.2	50.8	2.47
Shields	59.9	49.3	53.1	51.1	2.58
York	63.3	47.3	52.8	51.0	2.98
Loughborough	65.0	47.9	54.3	52.4	3.06
Ardrossan	59.7	49.6	53.5	51.3	3.87
Donaghadee	59.6	48.8	53.3	52.1	3.22
Holyhead	60.0	52.8	55.7	53.6	3.35
Liverpool	61.2	50.9	54.5	51.9	3.56
Parsonstown	61.6	47.5	53.1	51.1	3.49
Valencia	61.7	51.5	56.5	53.9	4.87
Roche's Point	61.0	51.0	55.4	53.2	4.39
Pembroke	60.2	53.1	56.2	53.8	3.89
Scilly	61.8	54.8	58.4	56.2	3.69
Jersey	65.2	54.9	59.8	57.1	3.51
Hurst Castle	64.2	52.2	57.2	55.8	3.35
Dover	62.9	53.0	57.9	55.3	2.86
LONDON	66.3	49.4	53.9	53.6	2.59
Oxford	63.8	49.1	54.2	52.3	2.91
Cambridge	65.5	48.1	54.4	51.9	2.48
Yarmouth	62.0	51.4	56.2	54.4	3.17

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	<p>Highest, 29.9 in. to 30.1 in. and more over Germany, the Baltic and Sweden, 29.6 in. and more off the southwest of Ireland.</p> <p>Lowest, 29.4 in. and less, in a depression lying over the west of Scotland.</p> <p>Gradients moderate in most places, but variable.</p> <p>Barometer rising briskly in the southwest and south, falling in the northeast.</p>
TEMPERATURE	<p>Highest, 65° at Perpignan, 63° at Nice and Biarritz, 61° at Marseilles and Copenhagen, 60° at Paris.</p> <p>Lowest, 46° at Narn, 53° at Kapaevanda, Wick, York, and Lancaster.</p> <p>It has fallen somewhat in Ireland, changed little and irregularly elsewhere.</p>
WIND	<p>Fresh from the SWnd over the Channel and greater part of England, light Sth to SEth at our northern stations, NWth in the west of Ireland, very light NEth at Stromness.</p>
WEATHER	<p>Very changeable throughout our islands, clear in some places, cloudy in others, showery in many places.</p> <p>Thunder or lightning occurred at many southern stations last night, and heavy showers locally.</p>
SEA	<p>Moderate on our coasts as a whole, rather rough at some of the more exposed stations.</p>

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression in the northwest seems to be filling up slowly; the V-shaped secondary appears likely to cause sharp showers over England today.

FORECASTS

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

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	SE th to SW th winds, unsettled, rain at times	6 SCOTLAND WEST	Wind shifting to NW th , light, changeable rain at times, bright intervals.
1 SCOTLAND EAST	S th and Variable winds, light; some local showers, fine and cool tonight.	7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST	SW th breezes, moderate; local showers, cool and fine tonight.	9 IRELAND NORTH	NW th to SW th winds, changeable, rain at times
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH			
		WARNINGS	NONE ISSUED.

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

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

YESTERDAY'S 2 P.M. REPORTS.

THER: WIND								THER: WIND							
	BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA
Skudesnaes ...	29.84	58	57	SE	7	Y	5	Holyhead ...	29.45	61	55	S	7	cg	6
Sunburgh Head								Valencia ...							
Stornoway ...	29.37	58	56	SE	2	O	3	Scilly ...							
Aberdeen ...								Jersey ...	29.68	58	57	S	5	T	5
Shields ...								Dungeneas ...	29.74	65	61	SSW	3	C	3
Ardrrossan ...								London ...							*
Malin Head ...	29.13	57	56	S	7	O	3	Yarmouth ...							
Mullaghmore ...								Rochefort ...	29.80	70	64	SE	4	O	2
Belmullet ...	29.15	59	57	NW	2	O	*								

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather changeable and showery in many parts of the United Kingdom and dull in France with heavy rain in the south of that country. Fine in most other parts of Europe, but dull in the north of Russia. Heavy rain falling later at many of the English, Irish and French stations, with thunderstorms in some parts of the last mentioned country.

Temperature highest 80° at Algiers, 77° at La Galle, 75° at Barcelona, and 73° at Tunis, above 60° in most parts of Southern Europe, and reaching that point over the Netherlands and the extreme southeast of England. Lowest 41° at Odessa, 42° at Hermannstadt, 45° at Bracon and Lemberg, and 46° at Riga and Warsaw, below 50° in some parts of Lapland and Finland. Rising during day to between 60° and 68° in our Islands, and to 70° or more in France and Germany.

Wind, SW⁴ over the southern parts of Ireland and England, strong in force at the Channel stations, S² or SE² in nearly all other parts of western Europe, and also over the more central countries; light to fresh in force generally, but strong to a gale over the Irish Sea. Light from the SW² or W² over the north of Russia; variable over Italy, Algeria and the south of Russia. Subsequently veering to the SW² or W² in the west of France.

Barometer highest 30.4 ins. and upwards in an anticyclone lying over the central and southern parts of Russia, lowest 29.1 ins. and less in a depression lying over the northwest of Ireland. Gradients rather steep over our Islands, but slight elsewhere. Depression in west subsequently moving slowly northwards and partially filling up.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD. FROM THE 14TH TO 20TH SEPT. 1830.

The past week has witnessed a complete break up of the fine weather hitherto prevailing over the United Kingdom, the conditions at the close of the period being everywhere stormy and unsettled.

At the commencement of the time the distribution of pressure over western Europe was mainly anticyclonic, the central portion of the system being located over Germany, the Netherlands and the North Sea. Fine weather therefore continued at all but our extreme western stations where conditions were beginning to be affected by some depressions which were moving northwards outside the Irish and Scotch coasts.

On the 15th and 16th however, the anticyclone moved away to Scandinavia and Denmark, and the depressions in the west began to spread eastwards over the United Kingdom. The wind was chiefly SE² or S² (strong in force in the west) and on the 17th and 18th when some shallow secondary disturbances advanced over our Islands from the S², thunderstorms and rain set in over many parts of Great Britain.

On the morning of the 19th a larger and deeper depression began to approach our extreme southwest coasts, and at the close of the week this was gradually spreading northwards over our Islands. Strong winds or gales from the SE² consequently set in over the greater part of the country, with decided falls of rain in many districts, and a rough sea on all the more exposed parts of our coasts.

During the early part of the week temperature over Great Britain^{was} high for the time of year, the daily maxima varying between 70° and 78°. The increase of cloud which took place towards the close of the period was, however, accompanied by a decided fall, and on the 20th the thermometer remained below 70° in nearly all places.

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, 23rd September. 1890.
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		Barom. Reading at 32° F. and Sea Level.	Temp. Dry.	Wind.		Weather.	Barometer. Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Shade Temp.		Wind.		Weather.	Sea. (0 to 12.)	Shade Temp.		Amount of Rainfall.		
				Dir.	Force. (10 to 12.)				Dry.	Wet.	Dir.	Force. (0 to 12.)			Max.	Min.			
SCANDINAVIA.	Haparanda ...	29.87	53	SW	2	c	29.66	-25	53	53	0	S	4	r.	•	53	43	0.16	
	Hernösand ...	29.87	53	SW	4	c	29.79	-18	53	53	-2	SW	2	c	•	54	48	—	
	Stockholm ...	30.01	54	SE	2	c	30.05	-05	59	56	+2	WSW	2	c	•	64	48	—	
	Wisby ...	30.06	55	SW	4	c	30.08	-02	60	57	+3	SW	4	bc	•	66	50	—	
	Bodö ...	29.59	54	E	2	c	29.51	-19	54	52	0	SW	4	o	3	57	52	0.08	
	Christiansund ...	29.50	53	E	1	c	29.74	+00	53	52	+2	WSW	6	c	3	59	52	0.32	
	Skudesnaes ...	29.75	54	S	9	o	29.93	+30	53	57	+1	NNE	4	o	5	61	57	0.67	
	Christiania Fjord (Fæder) ...	29.84	54	SW	3	c	29.99	+10	57	56	0	SW	3	c	2	61	57	0.12	
	Skagen (The Scaw) ...	29.85	54	WSW	1	c	30.01	+15	53	53	-3	S	0	f	0	63	52	—	
	Fanø ...	29.94	57	S	0	c	29.90	+14	54	57	0	ENE	4	c	•	64	54	0.04	
BRITISH ISLANDS.	Sumburgh Head ...	29.47	54	S	0	c	29.77	+28	53	52	-2	S	0	c	4	59	49	—	
	Stornoway ...	29.56	53	NNE	2	o	29.78	+39	53	54	0	SW	3	o	3	58	42	0.02	
	Wick ...	29.54	57	N	1	bc	29.82	+39	53	54	+2	S	0	o	1	65	52	—	
	Nairn ...	29.54	57	S	0	T	29.79	+39	53	54	+7	S	0	o	1	64	46	0.13	
	Aberdeen ...	29.57	59	SW	1	c	29.81	+35	53	52	0	WSW	1	sm	3	62	47	—	
	Leith ...	29.60	59	SW	1	c	29.80	+35	53	54	0	W	1	om	•	66	54	0.12	
	Shields ...	29.65	60	S	2	bc	29.79	+29	52	51	-3	SW	1	m	2	63	44	0.06	
	Spurn Head ...	29.73	61	S	3	c	29.86	+24	53	53	-2	W	2	bm	2	65	52	0.06	
	York ...	29.70	60	W	1	o	29.86	+27	46	46	7	S	1	f	•	65	45	—	
	Loughborough ...	29.74	59	SW	0	c	29.90	+27	50	50	-5	S	0	fw	•	68	49	0.01	
GERMANY & HOLLAND.	Ardsrossan ...	29.57	54	E	1	o	29.81	+42	53	52	-1	NW	3	c	1	60	53	—	
	Malin Head ...	29.58	54	NW	6	od	29.84	+30	54	54	0	W	2	cf	2	58	52	0.07	
	Mullaghmore ...	29.74	55	NW	6	o	29.89	+46	54	53	-2	SW	4	cf	2	56	52	0.07	
	Belmullet ...	29.78	54	NNW	2	o	29.91	+37	54	52	-1	W	3	o	•	57	53	0.07	
	Donaghadee ...	29.59	56	W	3	o	29.87	+44	53	52	-2	NNW	3	bc	1	60	50	0.12	
	Liverpool (Bidston) ...	29.70	57	SW	2	c	29.87	+32	53	54	+1	W	3	o	4	63	53	0.10	
	Holyhead ...	29.68	56	NNW	3	cf	29.83	+39	54	53	-5	NW	3	og	3	62	52	0.08	
	Parsonstown ...	29.76	54	NW	2	o	29.92	+41	54	53	+1	S	0	c	•	59	45	0.07	
	Valencia ...	29.85	56	NNW	3	of	29.99	+37	57	53	0	NW	1	o	1	60	52	0.09	
	Roche's Point ...	29.68	59	NNW	4	c	29.97	+39	53	53	0	NNW	2	bc	3	62	50	—	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.) ...	29.74	58	WSW	2	bc	29.93	+37	53	54	0	NW	2	bc	2	60	53	0.02	
	Scilly ...	29.77	57	W	3	bc	29.96	+39	57	53	-1	NW	4	bc	2	62	53	0.14	
	Prawle Point ...	29.78	57	SW	4	c	29.93	+37	57	56	0	NW	1	bc	1	60	54	0.01	
	Jersey (St. Aubin's) ...	29.81	63	S	3	cm	29.94	+37	57	57	-2	WSW	3	fcng	3	67	53	0.03	
	Hurst Castle ...	29.80	60	SW	5	c	29.92	+22	56	56	-2	NNE	2	bc	3	64	54	0.02	
	Dungeness ...	29.83	61	SW	4	cg	29.90	+16	61	58	+1	WSW	3	c	2	65	57	—	
	London ...	29.81	58	S	2	o	29.92	+21	57	53	-1	W	1	bc	•	67	52	0.05	
	Oxford ...	29.80	56	SW	2	bc	29.91	+24	53	52	-2	S	1	o	•	64	52	0.01	
	Cambridge ...	29.80	59	S	1	bc	29.91	+23	53	54	-3	SW	1	o	•	64	48	—	
	Yarmouth ...	29.79	61	WSW	4	bc	29.87	+16	56	53	-2	W	2	bm	2	65	54	—	
PENINSULA.	Cuxhaven ...	29.93	63	SW	1	c	29.87	+05	64	60	+3	NNE	3	c	•	69	57	—	
	Berlin ...	30.05	66	SE	4	c	30.03	0.0	58	53	+3	SE	4	c	•	75	54	—	
	Wiesbaden ...	30.08	59	SE	2	c	30.00	+04	60	59	0	SE	1	o	•	70	57	0.08	
	Munich ...	30.08	59	SE	2	c	30.05	-03	57	54	+1	SE	3	bc	•	75	48	—	
	The Helder ...	?	57	SW	1	c	29.86	+16	56	53	-6	NNW	3	T	3	64	53	0.35	
	Brussels (3 a.m.) ...	29.84	63	SW	1	c	29.99	+16	53	53	-6	S	2	o	•	68	52	1.46	
	Cape Gris Nez ...	29.84	63	SW	1	c	29.86	+11	60	57	+1	SE	4	bc	3	64	52	0.04	
	Paris ...	29.85	57	NW	2	o	30.02	+16	54	54	-6	S	1	o	•	66	53	0.87	
	Brest ...	29.86	61	W	2	o	29.95	+11	59	56	-1	NNW	2	o	3	79	50	—	
	Lorient ...	29.81	60	SW	2	bc	29.98	+22	57	53	-2	S	0	c	3	64	53	0.08	
PENINSULA.	Roche fort ...	29.95	60	S	3	o	30.08	+10	57	58	-3	SE	4	T	•	68	52	0.28	
	Belfort ...	30.03	62	W	1	o	30.05	+11	53	48	-3	N	1	T	•	68	53	0.28	
	Lyons ...	29.83	69	WSW	4	bc	30.06	+11	57	56	-3	NNW	2	o	•	73	56	1.89	
	Nice ...	30.10	67	ENE	2	c	30.13	+04	64	63	+1	SE	5	o	4	79	61	0.26	
	Perpignan ...	29.81	70	S	4	o	30.10	+23	59	53	-6	W	2	c	•	75	53	0.32	
	Biarritz ...	29.94	60	NW	4	T	30.10	+27	59	53	-4	WSW	4	c	4	66	54	1.38	
	Corunna ...	30.13	61	NW	3	c	30.21	+26	57	54	-2	S	0	c	5	68	54	—	

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

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

WEATHER CHARTS

for 8 a.m. on

Tuesday, 23rd September,

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:

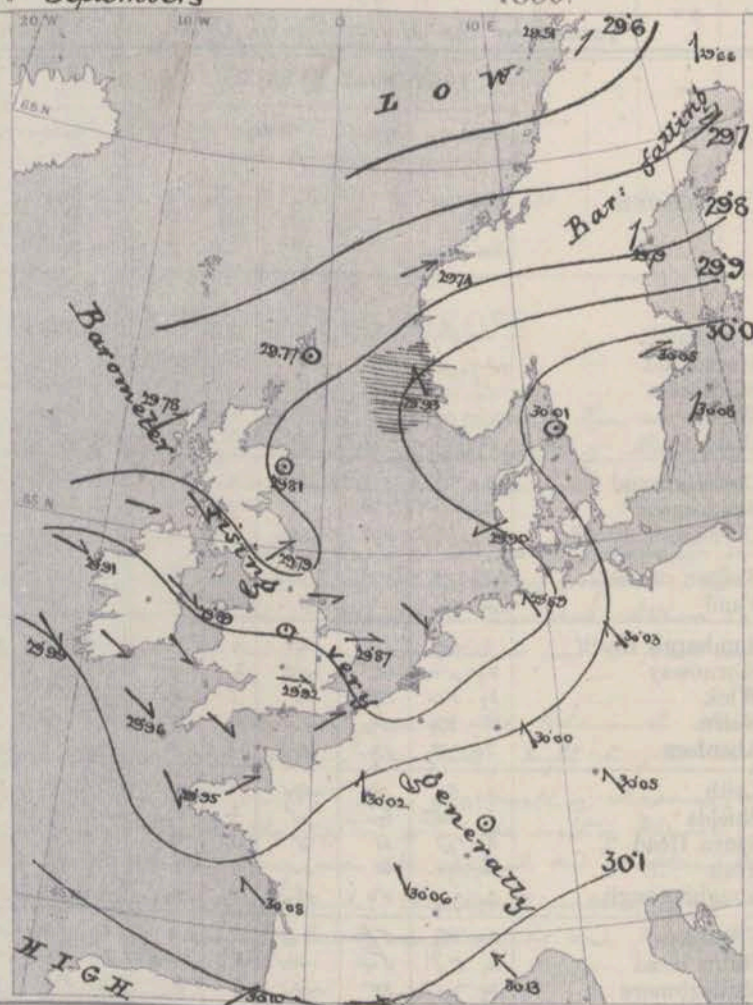
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.706
Stornoway	29.780
Wick	29.793
Nairn	29.809
Aberdeen	29.819
Leith	29.846
Shields	29.869
York	29.905
Loughborough	29.924
Ardrossan	29.850
Donaghadee	29.869
Holyhead	29.894
Liverpool	29.899
Parsonstown	29.904
Valencia	29.917
Roche's Point	29.915
Pembroke	29.913
Selly	29.943
Jersey	29.955
Hurst Castle	29.960
Dover	29.941
LONDON	29.945
Oxford	29.935
Cambridge	29.931
Yarmouth	29.916



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.

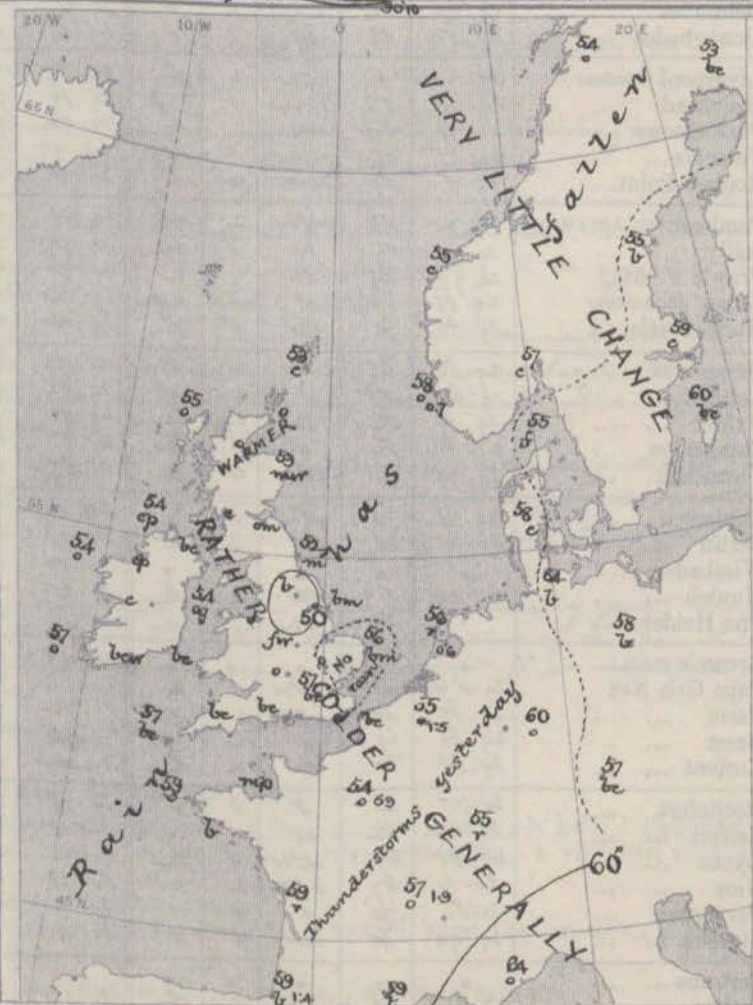
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of September.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	55.2	46.3	50.9	49.2	3.46
Stornoway	56.1	45.7	51.1	49.8	4.13
Wick	57.6	45.5	51.8	49.9	2.66
Nairn	59.0	46.8	51.2	48.8	2.73
Aberdeen	59.2	46.7	52.1	49.8	3.22
Leith	62.2	47.6	53.2	50.8	2.47
Shields	59.9	49.3	53.1	51.1	2.68
York	63.3	47.3	52.8	51.0	2.98
Loughborough	65.0	47.9	54.3	52.4	3.06
Ardrossan	59.7	49.6	53.5	51.3	3.87
Donaghadee	59.6	48.8	53.3	52.1	3.22
Holyhead	60.6	52.8	55.7	53.5	3.35
Liverpool	61.2	50.9	54.5	51.9	3.56
Parsonstown	61.6	47.5	53.1	51.1	3.49
Valencia	61.7	51.5	56.3	53.9	4.87
Roche's Point	61.9	51.0	55.4	53.2	4.39
Pembroke	60.2	53.1	56.2	53.8	3.89
Selly	61.8	54.8	58.4	56.2	3.69
Jersey	65.2	54.9	60.8	57.1	3.51
Hurst Castle	64.2	52.2	57.2	55.8	3.35
Dover	62.9	53.0	57.9	55.3	2.86
LONDON	66.3	49.4	55.9	53.6	2.59
Oxford	63.8	49.1	54.2	52.3	2.91
Cambridge	65.5	48.1	54.4	52.9	2.48
Yarmouth	62.0	51.1	56.2	54.4	3.17

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, over Germany, the southern part of France and the Bay of Biscay, and off the southeast of Ireland.
Lowest, 29.8 in: and less, over Scotland and the northeast of England, 29.6 in: and less, over Scotland.

Gradients moderate to slight, and very irregular.

Barometer still rising, but the rise seems to be checked in the west of Ireland.

TEMPERATURE

Highest, 64° at Nice and Copenhagen, 60° at Wexley.

Lowest, 46° at York, 50° at Loughborough, 53° at Oxford, Donaghadee, Aberdeen, Puntney Head, and Kaparanda.

Daily maxima yesterday, exceeded 70° in many parts of France and Germany, and ranged from 60° to 67° over the greater part of our Islands.

WIND

Very light and variable over our Islands and France, but chiefly NW^{ly} at our western stations.
In Sweden and Norway it was SW^{ly}, and blew rather strongly at Christiansund.

WEATHER

Cloudy and changeable in our Islands, raining in many parts of France and the Netherlands.

Rain has fallen generally — not heavily in the British Islands, but very heavily at many of the French and Dutch stations, where thunder and lightning have prevailed.

SEA

Slight or smooth except in the far north.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Some improvement seems probable in the western parts of our Islands today, but conditions are not favourable for any continuance of settled weather. Thunderstorms are probable over the southeastern part of England.

FORECASTS

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

DISTRICTS.

FORECASTS.

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

Very light winds, finally SW^{ly};
local showers.

Varying airs, local thundershowers,
finer later, but not settled.

DISTRICTS.

FORECASTS.

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

Wind backing to SW. or S; local
showers, fine elsewhere.

W^{ly} to SW^{ly} winds; fair to unsettled
rain at times.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND		WEA.	SEA		BAR.	THER.		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.62	60	57	SE	1	0	5		Holyhead ...	29.61	60	57	SE	4	4
Sumburgh Head ...	29.42	57	53	SE	1	0	5		Valencia ...	29.74	58	55	SE	4	4
Stornoway ...	29.46	57	53	SE	2	0	2		Scilly ...	29.72	60	57	SE	4	2
Aberdeen ...	29.49	61	56	SE	3	0	3		Jersey ...	29.81	65	60	SE	4	4
Shields ...	29.56	63	56	SE	3	0	3		Dungeness ...	29.82	62	57	SE	4	3
Ardrossan ...	29.60	60	57	SE	3	0	2		London ...	29.78	66	60	SE	3	8
Malin Head ...	29.45	54	51	SE	6	0	3		Yarmouth ...	29.77	65	57	SE	4	4
Mullaghmore ...	29.61	56	53	SE	6	0	6		Rochefort ...	29.71	62	60	SE	3	2
Belmullet ...	29.69	58	52	SE	5	0	*								

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

Weather changeable and showery in most parts of Western Europe, with a thunderstorm at Lyons. Fine in Sweden, Germany, Austria, Italy and Algeria. Thunderstorms occurring during day in many parts of France and Belgium, with heavy rain in places, (1.4 in. at Dinant, 1.5 in. at Brussels, and 1.3 in. at Lyons).

Temperature highest 82° at La Caille, 78° at Algiers, and 75° at Barcelona and Tunis; above 60° in most parts of France, Italy, and the Netherlands, but below that point in Spain. Lowest 41° at Thetford and Hermannstadt, 43° at Moscow, 45° at Warsaw, and 46° at Krasnodar and Moscow. Below 50° at many of the Scotch stations. Daily maxima below 60° in many parts of Ireland and Scotland, but thermometer rising to between 65° and 68° over Central and Eastern England and to 75° or more in Germany and the south of France.

Wind moderate or fresh from the SWnd over England, and light from the same quarter over the greater part of France and Spain. Light from the SEnd over the north of our islands, and also in Scandinavia, Denmark and Germany, and the Baltic. NWnd in the north of Ireland; variable in Italy, strong from the Snd in Algeria. Subsequently veering to the Wnd or NWnd in the west of England.

Barometer highest, 30.4 in. and upwards, in an anticyclone lying over the central and southern parts of Russia. Lowest 29.4 in. and less, in a shallow depression lying over the west of Scotland; trough of V-shaped secondary systems extending southwards over our east and south-west coasts, and the Bay of Biscay. Depression subsequently travelling northwards across the north of Scotland, and partially filling up.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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for *Wednesday, 24th September, 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.		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.	Force. (0 to 12.)				Max.	Min.		
SCANDINAVIA.		Haparanda ...	29.85	56	2	0	b	29.97	+ .31	54	53	+ 1	Sw	2	c	*	57	41	-
		Hernösand ...	30.02	50	2	0	b	29.88	+ .09	57	54	+ 2	S	4	c	*	72	50	-
		Stockholm ...	29.93	57	S	2	c	30.03	- .02	59	56	0	SSW	2	c	*	68	52	-
		Wisby ...	30.09	56	SSW	4	b	30.08	00	59	57	- 1	SSW	4	bc	*	66	54	-
		Bodö ...	29.83	52	Sw	6	+	29.68	+ .17	53	48	- 1	STE	2	0	1	54	46	0.24
		Christiansund	29.86	54	Sw	1	c	29.53	- .21	54	52	- 1	NSW	3	r	2	57	52	0.04
		Skudesnaes ...	29.76	56	S	1	r	29.80	- .13	57	55	- 1	SSW	4	0	4	?	54	1.26
		Christiana Fjord (Fæder)	29.93	58	N	4	0	29.89	- .10	56	55	- 1	SSW	5	b	4	58	?	0.04
		Skagen (The Scaw)	29.88	60	Sw	4	r	29.98	- .03	57	55	+ 2	Sw	3	b	3	61	54	0.08
		Fanö ...	29.98	59	SSW	4	c	30.06	+ .16	60	57	+ 2	Sw	4	b	*	68	57	-
		Sumburgh Head	29.76	53	2	0	0	29.59	- .18	53	53	0	SSW	2	0	3	56	50	0.01
		Stornoway ...	29.74	55	Sw	5	r	29.59	- .19	55	54	0	Sw	5	0	5	58	49	0.08
		Wick ...	29.76	55	S	1	om	29.66	- .16	57	55	+ 2	S	2	bc	1	58	50	-
		Nairn ...	29.76	54	2	0	bc	29.66	- .13	58	56	+ 3	Sw	3	c	2	58	51	0.01
		Aberdeen ...	29.78	55	S	1	c	29.77	- .04	56	53	+ 3	SSW	2	bc	2	60	50	0.16
		Leith ...	29.82	59	W	1	c	29.83	+ .03	58	54	+ 3	NSW	3	bc	*	61	53	-
		Shields ...	29.84	58	S	2	c	29.92	+ .13	56	53	+ 4	Sw	3	c	2	62	50	0.01
		Spurn Head ...	29.91	58	Sw	3	b	30.06	+ .20	58	55	+ 3	Sw	4	b	4	65	52	-
		York ...	29.90	56	W	1	c	30.04	+ .18	55	53	+ 9	SSW	1	c	*	65	45	0.06
		Loughborough	29.96	57	W	1	0	30.12	+ .22	57	54	+ 7	NSW	2	bc	*	63	50	0.01
		Ardrossan ...	29.85	57	NSW	2	0	29.85	+ .04	57	55	+ 2	Sw	5	0	5	62	54	0.04
		Malin Head ...	29.83	56	Sw	4	0	29.78	- .06	57	55	+ 3	Sw	4	op	2	57	54	0.12
		Mullaghmore ...	29.88	56	Sw	4	0	29.87	- .02	57	55	+ 3	Sw	5	0	4	58	54	0.13
		Belmullet ...	29.88	57	NSW	4	c	29.91	00	56	52	+ 2	W	4	0	*	57	53	0.16
		Donaghadee ...	29.90	57	NSW	2	c	29.91	+ .04	56	55	+ 3	NSW	4	c	2	63	52	0.03
		Liverpool (Bidston)	29.95	55	W	3	bc	30.05	+ .18	57	55	+ 2	Sw	3	0	3	58	52	0.03
		Holyhead ...	29.95	57	Sw	4	cq	30.02	+ .13	58	56	+ 4	Sw	5	og	5	61	53	0.01
		Parsonstown ...	29.96	56	2	0	0	29.98	+ .06	57	56	+ 3	Sw	2	0	*	59	52	0.10
		Valencia ...	30.01	57	SSW	4	0	30.05	+ .06	59	58	+ 2	NSW	3	og	4	60	55	0.04
		Roche's Point...	30.00	57	W	2	c	30.06	+ .09	59	57	+ 4	NSW	3	bc	3	60	53	0.01
		Pembroke (St. Ann's Hd.)	30.02	57	W	4	c	30.13	+ .20	58	56	+ 3	Sw	4	cqp	4	62	55	0.15
		Scilly ...	30.07	58	W	4	c	30.19	+ .23	59	57	+ 2	SSW	4	c	2	61	54	-
		Prawle Point ...	30.06	57	W	3	c	30.23	+ .30	58	56	+ 1	W	5	bc	3	68	52	0.07
		Jersey (St. Aubin's)	30.07	60	W	3	bc	30.29	+ .35	60	57	+ 2	W	3	bcy	3	64	55	0.10
		Hurst Castle ...	30.03	59	NSW	3	c	30.23	+ .31	59	57	+ 3	W	4	bcy	2	65	55	-
		Dungeness ...	29.99	60	NSW	4	c	30.21	+ .31	61	57	0	NSW	2	b	1	65	56	-
		London ...	30.01	54	W	2	0	30.20	+ .28	57	55	0	Sw	2	b	*	67	49	0.44
		Oxford ...	30.03	54	Sw	2	0	30.18	+ .27	57	54	+ 4	Sw	3	bc	*	64	51	-
		Cambridge ...	29.98	59	Sw	1	0	30.16	+ .25	56	54	+ 1	Sw	1	b	*	68	47	-
		Yarmouth ...	29.94	59	NSW	2	bc	30.15	+ .28	55	53	- 1	W	3	bem	2	64	50	-
		Cuxhaven ...	30.05	57	Sw	2	b	30.16	+ .27	53	53	- 11	SSW	2	m	*	67	52	-
		Berlin ...	30.05	67	Sw	2	c	30.26	+ .23	60	59	+ 2	W	3	0	*	75	57	-
		Wiesbaden ...	*	*	*	*	*	30.31	+ .31	54	53	- 6	2	0	0	*	64	50	-
		Munich ...	30.29	59	Sw	1	0	30.35	+ .30	57	56	0	NSW	2	0	*	73	54	0.12
		The Helder ...	30.02	60	Sw	2	r	30.13	+ .27	59	57	+ 3	Sw	2	c	3	63	55	0.12
		Brussels (9 a.m.)	*	*	*	*	*	30.26	+ .27	55	53	0	Sw	2	bc	*	65	50	0.04
		Cape Gris Nez	30.06	59	W	5	b	30.19	+ .33	58	55	- 2	NSW	4	b	4	64	54	0.08
		Paris ...	30.12	59	S	2	m	30.31	+ .29	48	?	- 6	NSW	1	b	*	?	47	0.12
		Brest ...	30.08	61	NSW	2	bc	30.24	+ .29	59	58	0	W	2	b	3	79	50	-
		Lorient ...	30.13	60	NSW	4	c	30.31	+ .33	58	56	+ 1	W	3	bc	3	63	55	-
		Rochefort ...	30.23	63	NSW	4	c	30.38	+ .30	57	56	- 2	SE	3	c	*	72	52	0.08
		Belfort ...	30.12	51	W	1	0	30.28	+ .23	58	50	+ 3	NSW	1	0	*	68	?	0.08
		Lyons ...	30.19	61	W	1	bc	30.32	+ .26	56	53	- 1	NSW	1	0	*	66	54	0.04
		Nice ...	30.17	65	SSW	3	f	30.19	+ .06	59	59	- 5	STE	4	0	3	73	57	2.00
		Perpignan ...	30.20	64	NSW	3	0	30.27	+ .17	61	55	+ 2	NSW	3	c	*	73	?	-
		Biarritz ...	30.24	63	SSW	1	r	30.39	+ .29	60	57	+ 1	NSW	4	0	3	68	57	0.32
		Corunna ...	*	*	*	*	*	30.28	+ .07	58	54	+ 1	2	0	b	3	70	57	-
PENINSULA.		Lisbon ...	30.23	62	W	5	b	30.28	+ .07	58	54	+ 1	2	0	b	3	70	57	-

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

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

WEATHER CHARTS

for 8 a.m. on

Wednesday, 24th September,

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:

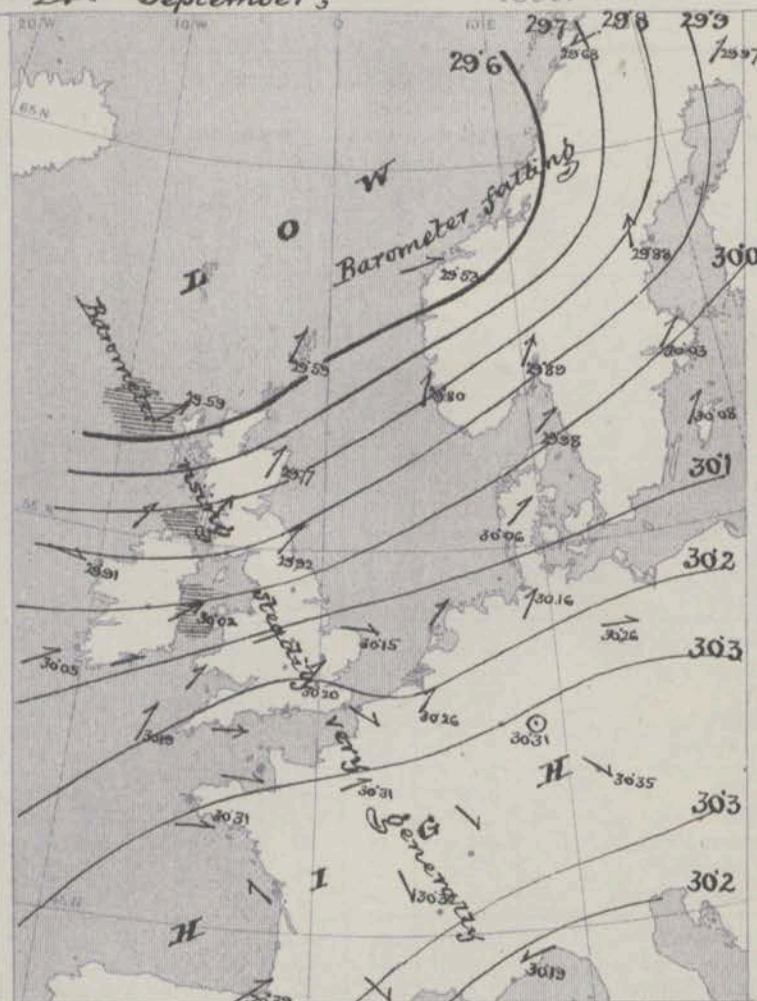
☼ = Rough. ☼ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.706
Stornoway	29.780
Wick	29.793
Nairn	29.800
Aberdeen	29.819
Leith	29.846
Shields	29.869
York	29.905
Loughborough	29.924
Ardrossan	29.850
Donaghadee	29.869
Holyhead	29.894
Liverpool	29.899
Parsonstown	29.904
Valencia	29.917
Roche's Point	29.915
Pembroke	29.913
Scilly	29.943
Jersey	29.955
Hurst Castle	29.900
Dover	29.941
LONDON	29.945
Oxford	29.935
Cambridge	29.931
Yarmouth	29.916



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.

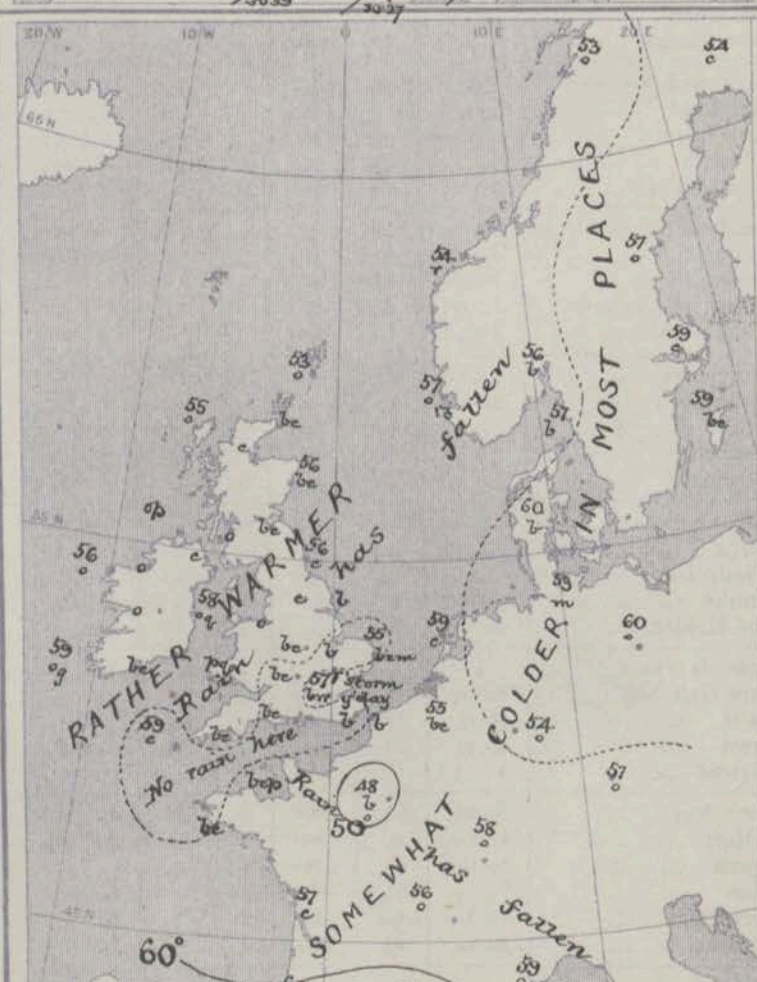
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of September.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	55.2	46.3	50.9	49.2	3.46
Stornoway	56.1	45.7	51.1	49.8	4.13
Wick	57.6	45.5	51.8	49.9	2.66
Nairn	59.0	46.8	51.2	48.8	2.73
Aberdeen	59.2	46.7	52.1	49.8	3.22
Leith	62.2	47.6	53.2	50.8	3.47
Shields	59.9	49.3	53.1	51.1	2.58
York	63.3	47.3	52.8	51.0	2.98
Loughborough	65.0	47.9	54.3	52.4	3.06
Ardrossan	59.7	49.6	53.5	51.3	3.87
Donaghadee	59.6	48.8	53.3	52.1	3.22
Holyhead	60.6	52.8	55.7	53.5	3.35
Liverpool	61.2	50.9	54.5	51.9	3.55
Parsonstown	61.6	47.5	53.1	51.1	3.49
Valencia	61.7	51.5	56.3	53.9	4.87
Roche's Point	61.9	51.0	55.4	53.2	4.39
Pembroke	60.2	55.1	56.2	53.8	3.89
Scilly	61.8	54.8	58.4	56.2	3.69
Jersey	65.2	54.9	59.8	57.1	3.51
Hurst Castle	64.2	52.2	57.2	55.8	3.55
Dover	62.9	53.0	57.9	55.3	2.86
LONDON	66.3	49.4	55.9	53.6	2.59
Oxford	63.8	49.1	54.2	52.3	2.91
Cambridge	65.5	48.1	54.4	52.9	2.48
Yarmouth	62.0	51.1	56.2	54.4	3.17

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: to 30.3 in: and more over Germany, France, the Channel, and Bay of Biscay.
 Lowest, 29.6 in: and less, to the northward of Scotland and westward of Norway.
 Gradients slight over France and Germany, moderately steep over the British Islands, North Sea and Scandinavia.
 Barometer falling in Norway and Sweden, rising in the British Islands and over France.

TEMPERATURE

Highest 61° at Perpignan and Dungeness, 60° at Havre, Jersey, Berlin, and Tiro, 59° at Valencia and Seilly.
 Lowest, 48° at Paris, 53° at Copenhagen and Bonn.
 The daily maxima recorded over Great Britain yesterday ranged from 60° to 65°; the night minima were below 50° at several of the inland stations.

WIND

SW^{ly}, moderate, over the United Kingdom generally, rather more S^{ly} over the North Sea and Scandinavia.
 NE^{ly} at Bonn and also on the south coast of France.

WEATHER

Changeable in most places, but temporarily fine and bright in many parts of England, the north of France, and on the shores of the North Sea. Thunderstorms prevailed in the south and southeast of England last evening.
 Rainfall yesterday was 2.00 in: at Nice, 0.44 in: in the south of London, and 1.76 in: at Rhodanese; much lighter elsewhere.

SEA

Moderate on our west and southwest coasts, slight generally elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Showers of rain appear likely to occur in most places today, followed by a clear and rather cold night over England. Fresh depressions are likely to appear off our western coasts shortly.

FORECASTS

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

DISTRICTS.

FORECASTS.

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

SW^{ly} breezes, fresh; showery.
 SW^{ly} breezes, moderate or light; a few showers, bright intervals.
 SW^{ly} breezes, moderate, slight passing showers, bright intervals. Very cool tonight.

DISTRICTS.

FORECASTS.

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

SW^{ly} breezes, fresh; showery.
 SW^{ly} to S^{ly} breezes, moderate to strong; changeable, showery, unsettled.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER.		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.88	60	58	S	2	0	4		Holyhead ...	29.94	60	57	new	1	2
Sumburgh Head ...	29.81	55	46	2	0	1	3		Valencia ...	30.02	58	56	new	3	3
Stornoway ...	29.77	57	55	2	3	c	3		Scilly ...	30.02	60	57	w	3	2
Aberdeen ...	29.80	60	55	S	1	c	2		Jersey ...	30.01	62	59	new	3	3
Shields ...	29.81	62	57	new	3	0	2		Dungeness ...	29.96	62	59	2	c	3
Ardrossan ...	29.85	59	56	S	2	0	2		London ...	29.95	61	59	2	0	*
Mulin Head ...	29.86	55	53	new	3	0	2		Yarmouth ...	29.91	64	58	2	0	2
Mullaghmore ...	29.90	57	56	new	2	0	3		Rochefort ...	30.16	66	62	w	4	*
Belmullet ...	29.91	56	55	new	3	om	*								

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

Weather fine and bright over Russia, Poland, Germany, Austria, and southeastern Europe generally, as well as over the Spanish Peninsula; cloudy, very changeable and unsettled elsewhere, with rain in several localities, thunder at Perpignan, and an unsettled appearance in most places. Rain falling subsequently in all parts of Western Europe — heavily at Nice, Marseilles, and in London, thunderstorms in the south and southeast of England.

Temperature falling slightly over Western Europe, rising slightly in the east, morning readings 70° and more at Malta, La Calle, and Cagliari only, above 60° at most of the Mediterranean stations, and above 50° over Northwestern Europe generally. As low as 44° at Odessa, 45° at Kharkov, 46° at Moscow, and also at Madrid, 47° at Hermannstadt and Warsaw, 48° at Uleaborg. Rising to between 60° and 68° over England later and to 70° and more in many parts of France and Germany. Succeeding night cool over England.

Wind mainly S² and SE² over the northern and eastern countries of Europe, NW² on the western coasts of the British Islands, very variable elsewhere; light to moderate in force generally. Backing to the SW² at our western stations later.

Barometer highest, 30.2 ins. to 30.5 ins. in a large anticyclone lying over eastern and southeastern Europe, 30.2 ins. more in another system covering the Iberian Peninsula and adjacent parts of the Atlantic; lowest 29.6 ins. and less, over the western parts of Lapland, 29.8 ins. and less, over Scotland and the northeast of England, and very little above 30.0 ins. even over the southern half of France. Beginning to fall a little in Scotland and Ireland later, rising decidedly over the Continent.

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

Issued by the Meteorological Office, 65, 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.		Weather.	SHADE TEMP.		Amount of Rainfall.	
		Reading at 29° F. and Sea Level.	Dry.	Dirac.	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.	Dirac.	Force (0 to 12.)		Max.	Min.		
SCANDINAVIA.																		
Haparanda ...	29.67	54	SW	6	0	29.62	- .35	53	52	- 1	SW	4	0	*	55	46	-	
Hernösand ...	29.62	54	SSW	4	0	29.73	- .15	54	51	- 3	SSW	4	0	*	59	45	-	
Stockholm ...	30.06	57	SW	2	0	30.00	- .06	57	53	- 4	SW	4	0	*	64	52	-	
Wishy ...	30.15	57	WSW	4	0	30.12	+ .04	56	53	- 3	SW	4	0	*	63	52	-	
Bodö ...	29.48	52	SW	6	0	29.48	- .23	48	47	- 1	SSW	7	0	*	55	45	0.63	
Christiansund ...	29.58	56	S	2	†	29.70	+ .12	50	46	- 4	SW	6	†	4	57	48	0.79	
Skudeenæs ...	29.56	58	SSW	5	†	30.00	+ .20	52	48	- 4	WSW	4	†	3	50	50	0.04	
Christiania Fjord (Harmer) ...	29.95	58	SW	7	0	29.67	- .02	58	57	+ 1	WSW	5	†	4	59	?	-	
Skagen (The Scaw) ...	30.04	56	SW	3	0	29.95	- .03	57	56	- 1	WSW	5	†	3	61	54	0.16	
Fand ...	30.15	58	WSW	4	0	30.10	+ .04	59	57	- 2	WSW	4	0	*	63	?	-	
Sumburgh Head ...	29.63	53	WSW	4	0	29.95	+ .36	51	48	- 3	W	3	0	4	58	47	0.05	
Stornoway ...	29.81	52	W	4	0	30.09	+ .50	51	50	- 1	W	4	0	4	59	46	0.04	
Wick ...	29.78	51	W	2	0	30.12	+ .46	51	49	- 2	SW	2	0	1	60	45	0.12	
Nairn ...	29.83	53	SW	3	0	30.13	+ .47	50	48	- 2	SW	1	0	2	64	43	0.02	
Aberdeen ...	29.87	57	WSW	2	0	30.19	+ .42	50	46	- 4	SW	1	0	2	65	46	-	
Leith ...	29.93	58	WSW	2	0	30.23	+ .40	52	48	- 4	WSW	3	0	*	64	48	-	
Shields ...	29.99	60	SSW	3	0	30.24	+ .32	50	48	- 2	WSW	2	0	2	65	47	-	
Spurn Head ...	30.10	61	SSW	5	0	30.28	+ .22	56	54	- 2	WSW	3	0	3	65	55	-	
York ...	30.04	55	W	3	0	30.29	+ .25	53	51	- 2	W	1	0	*	65	51	0.09	
Loughborough ...	30.16	60	WSW	4	0	30.35	+ .23	56	54	- 2	W	2	0	*	66	53	0.03	
BRITISH ISLANDS.																		
Ardrossan ...	29.99	56	WSW	3	0	30.26	+ .41	54	51	- 3	WSW	4	0	3	62	52	0.02	
Malin Head ...	30.00	54	W	4	0	30.25	+ .47	52	51	- 1	WSW	2	0	2	58	?	0.08	
Mullaghmore ...	30.08	55	W	5	0	30.31	+ .44	52	50	- 2	SSW	4	0	2	59	50	0.03	
Belmullet ...	30.12	54	WSW	3	0	30.31	+ .40	54	52	- 2	WSW	2	0	*	59	52	0.01	
Donaghadee ...	30.04	57	WSW	3	0	30.33	+ .42	50	49	- 1	W	3	0	1	65	49	0.03	
Liverpool (Bidston) ...	30.11	59	WSW	4	0	30.34	+ .29	55	50	- 5	WSW	3	0	3	63	54	-	
Holyhead ...	30.11	58	WSW	4	0	30.35	+ .33	55	53	- 2	WSW	1	0	2	62	52	-	
Parsonstown ...	30.13	57	SW	1	0	30.38	+ .40	51	50	- 1	W	0	0	*	61	49	-	
Valencia ...	30.22	58	WSW	2	0	30.42	+ .37	56	55	- 1	W	0	0	1	62	51	0.03	
Roche's Point ...	30.18	60	W	3	0	30.36	+ .30	55	52	- 3	WSW	1	0	3	64	53	-	
Pembroke (St. Ann's Hd.) ...	30.20	58	WSW	4	0	30.41	+ .28	57	53	- 4	WSW	2	0	2	59	56	0.02	
Scilly ...	30.26	60	WSW	4	0	30.43	+ .24	59	58	- 1	WSW	2	0	1	61	54	0.01	
Prawle Point ...	30.29	57	WSW	5	0	30.44	+ .21	57	56	- 1	W	3	0	2	62	54	0.02	
Jersey (St. Aubin's) ...	30.35	62	WSW	3	0	30.45	+ .16	61	59	+ 2	W	3	0	3	65	57	0.08	
Hurst Castle ...	30.29	60	W	5	0	30.41	+ .18	61	59	+ 2	WSW	2	0	2	64	58	-	
Dungeness ...	30.25	61	W	5	0	30.35	+ .14	60	59	- 1	WSW	3	0	2	66	57	-	
London ...	30.27	58	WSW	3	0	30.37	+ .17	57	50	- 7	WSW	2	0	*	65	53	-	
Oxford ...	30.26	56	SW	2	0	30.38	+ .20	56	55	- 1	S	1	0	*	63	55	-	
Cambridge ...	30.22	60	SW	1	0	30.36	+ .20	59	55	+ 4	WSW	1	0	*	68	54	-	
Yarmouth ...	30.18	60	W	2	0	30.30	+ .15	58	56	+ 2	WSW	3	0	2	66	54	-	
GERMANY & HOLLAND.																		
Cuxhaven ...	30.23	57	SSW	1	0	30.21	+ .05	56	55	+ 1	SSW	2	0	*	66	?	0.05	
Berlin ...	30.32	60	W	0	0	30.31	+ .05	57	55	- 2	W	0	0	*	66	54	-	
Wiesbaden ...	*	*	*	*	*	30.37	+ .06	59	55	+ 4	WSW	1	0	*	64	?	-	
Munich ...	30.34	56	WSW	2	0	30.35	- .01	56	55	- 1	W	3	0	*	63	54	-	
The Helder ...	30.19	60	SW	2	0	30.25	+ .12	60	58	+ 2	WSW	2	0	3	63	59	-	
FRANCE AND BELGIUM.																		
Brussels (G.A.M.) ...	*	*	*	*	*	30.38	+ .12	53	53	- 2	SSW	2	0	*	63	50	0.04	
Cape Gris Nez ...	30.28	60	WSW	4	0	30.38	+ .19	60	58	+ 2	WSW	5	0	5	64	55	0.04	
Paris ...	30.36	59	SSW	1	0	30.45	+ .14	52	52	+ 4	W	0	0	*	66	?	-	
Brest ...	30.32	61	WSW	3	0	?	?	58	58	- 1	WSW	2	0	3	79	50	0.16	
Lorient ...	30.38	61	W	2	0	30.43	+ .12	59	58	+ 1	W	3	0	3	64	57	-	
Rochefort ...	30.45	62	WSW	3	0	30.51	+ .13	57	56	- 1	WSW	2	0	*	70	50	-	
Belfort ...	30.32	59	WSW	1	0	30.36	+ .08	54	54	- 4	W	2	0	*	68	50	1.30	
Lyons ...	?	53	WSW	2	0	30.45	+ .13	53	51	- 2	W	1	0	*	58	52	0.55	
Nice ...	30.20	62	SW	2	0	30.28	+ .09	55	54	- 1	WSW	5	0	3	64	54	1.34	
Perpignan ...	30.33	65	W	3	0	30.43	+ .16	58	53	- 5	W	2	0	*	73	50	-	
Biarritz ...	30.38	64	WSW	3	0	30.45	+ .06	55	53	- 2	E	2	0	2	70	52	-	
PENINSULA.																		
Corunna ...	*	*	*	*	*	30.29	+ .01	63	54	+ 5	WSW	4	0	?	79	?	-	
Lisbon ...	30.26	65	WSW	5	0	30.29	+ .01	63	54	+ 5	WSW	4	0	?	79	?	-	

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, 25th September,

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:

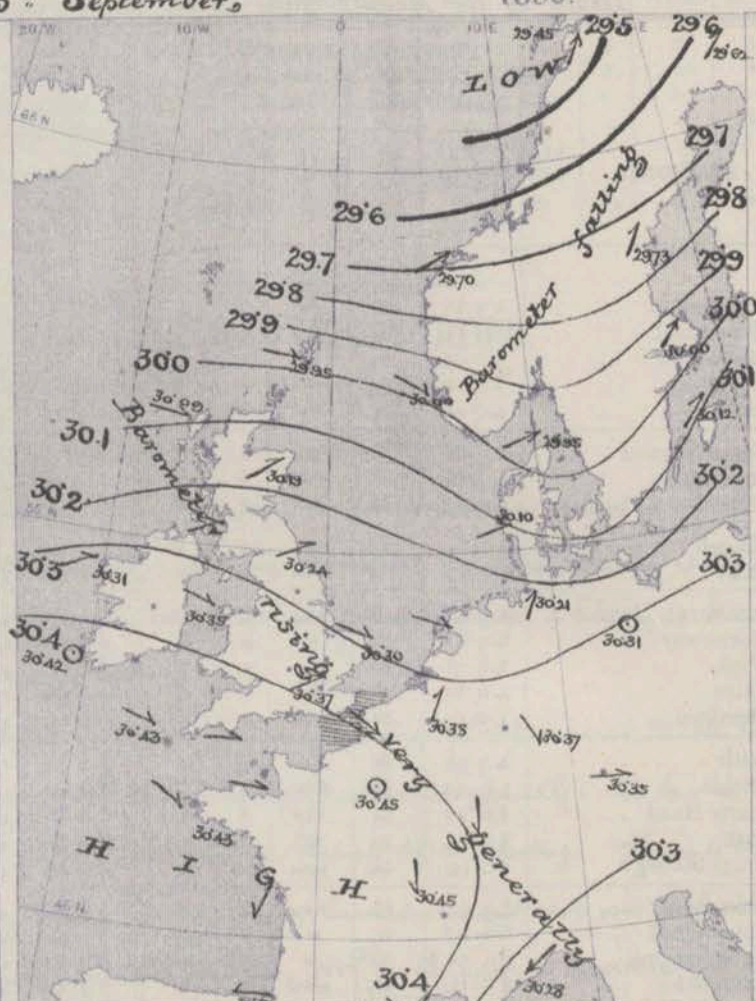
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.766
Sornoway	29.780
Wick	29.793
Nairn	29.809
Aberdeen	29.819
Leith	29.846
Shields	29.869
York	29.905
Loughborough	29.924
Ardrossan	29.850
Donaghadee	29.869
Holyhead	29.894
Liverpool	29.899
Parsonstown	29.904
Valencia	29.917
Roche's Point	29.915
Pembroke	29.913
Scilly	29.943
Jersey	29.955
Hurst Castle	29.960
Dover	29.941
LONDON	29.945
Oxford	29.935
Cambridge	29.931
Yarmouth	29.916



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.

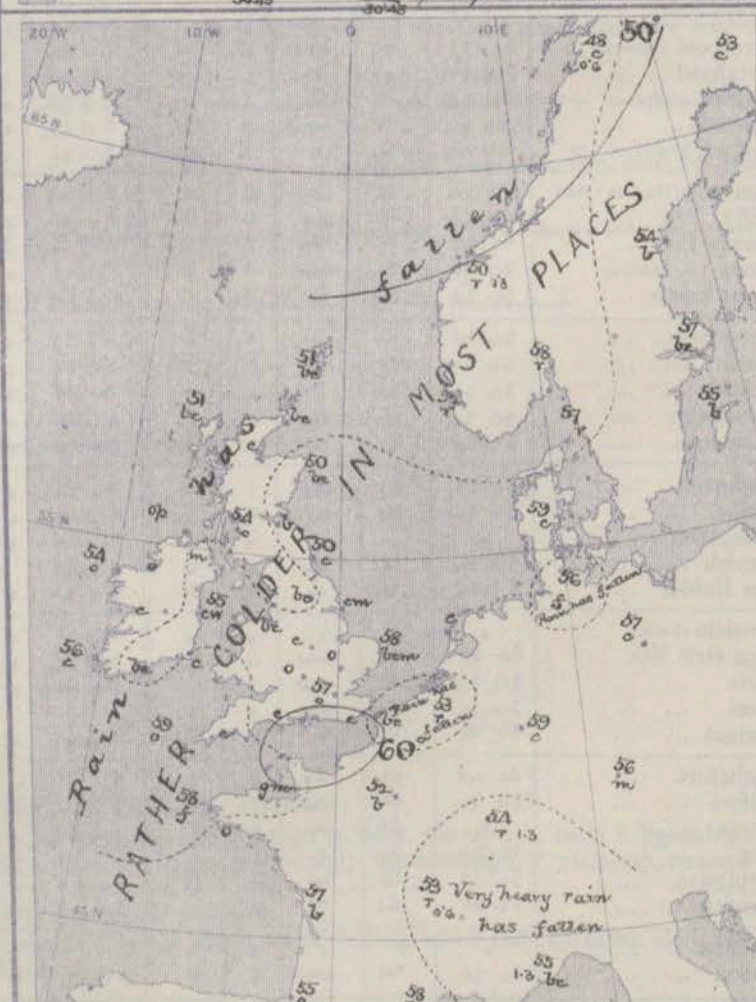
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of September.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	55.2	46.3	50.9	49.2	3.46
Sornoway	56.1	45.7	51.1	49.8	4.13
Wick	57.6	45.5	51.8	49.9	2.66
Nairn	59.0	46.8	51.2	48.8	2.73
Aberdeen	50.2	46.7	52.1	49.8	3.22
Leith	62.2	47.0	53.2	50.8	2.47
Shields	59.9	49.3	53.1	51.1	2.58
York	63.3	47.3	52.8	51.0	2.98
Loughborough	65.0	47.9	54.3	52.4	3.06
Ardrossan	59.7	49.6	53.5	51.3	3.87
Donaghadee	59.6	48.8	53.3	52.1	3.22
Holyhead	60.6	52.8	55.7	53.5	3.35
Liverpool	61.2	50.9	54.5	51.9	3.56
Parsonstown	61.6	47.5	53.1	51.1	3.40
Valencia	61.7	51.5	56.3	53.9	4.87
Roche's Point	61.9	51.0	55.4	53.2	4.39
Pembroke	59.2	53.1	56.2	53.8	3.89
Scilly	61.8	54.8	58.4	56.2	3.69
Jersey	65.2	54.9	59.8	57.1	3.51
Hurst Castle	64.2	52.2	57.2	55.8	3.55
Dover	62.9	53.0	57.9	55.3	2.86
LONDON	66.3	49.3	55.9	53.6	2.59
Oxford	63.8	49.1	54.2	52.3	2.91
Cambridge	65.5	48.4	54.4	52.9	2.48
Yarmouth	62.0	51.1	56.2	54.4	3.17

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, 30.3 in: to 30.4 in: and more, over Ireland, England, France, and the Bay of Biscay.
 Lowest, 29.5 in: and less, in Lapland, and rather below 30.0 in: over the Shetland Islands.
 Gradients slight in the south and southeast, moderate and increasing in Norway and the north of Scotland.
 Barometer still rising except in the far north.

TEMPERATURE

Highest, 63° at Lisbon, 61° at Jersey and Hurst Castle, 59° at Kelly and Lorient, 57° at Stockholm and in London.
 Lowest, 48° at Bodo, 50° at Christiansund, Narvik and Shilds, 51° at Paris.
 Over England the thermometer rose to between 65° and 68° yesterday, while in many parts of France it exceeded 70°.

WIND

Strong from between S. and SW. over the northern parts of Scandinavia, moderate SW in the south of Sweden, light and variable from the W^s (WSW to WNW) over our Islands, N^s to NE^s in the east and south of France.

WEATHER

Fair over the United Kingdom as a whole, but with a good deal of cloud in many places. Rain is falling at many of the Continental stations, and at Belfast and here the fall has again exceeded an inch.

SEA

Moderate in the far north, slight or smooth in most other places, but rather rough at Cape Fin Rey.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There is no indication of any change in our Islands at present, but the appearance of the sky in the southeast of England is not settled.

FORECASTS

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

DISTRICTS.

FORECASTS.

0 SCOTLAND
NORTH

W^s and SW^s winds, fresh; some rain.

1 SCOTLAND
EAST

W^s and Variable breezes, light; fair generally.

2 ENGLAND
N.E.

Same as No 5.

3 ENGLAND
EAST

Same as Nos 1 and 2

4 MIDLAND
COUNTIES

5 ENGLAND
SOUTH

NW^s and W^s breezes; weather very uncertain, possibly local thunderstorms.

DISTRICTS.

FORECASTS.

6 SCOTLAND
WEST

Same as No 0.

7 ENGLAND
N.W.

8 ENGLAND
S.W.

9 IRELAND
NORTH

10 IRELAND
SOUTH

W^s and NW^s winds, light; most probably fair generally.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.88	54	55	SEW	6	r	5	Holyhead ...	30.05	54	58	SW	5	c	4
Sumburgh Head ...	29.59	55	54	NEW	4	c	4	Valencia ...	30.14	60	59	SW	4	om	4
Stornoway ...	29.68	56	54	W	5	c	5	Scilly ...	30.23	60	59	SW	4	cp	2
Aberdeen ...	29.76	64	57	SW	4	bc	2	Jersey ...	30.34	64	59	WSW	3	b	3
Shields ...	29.95	63	58	SEW	4	cp	2	Dungeness ...	30.25	65	59	WSW	5	bc	3
Ardrossan ...	29.89	59	54	WSW	3	c	2	London ...	30.23	60	59	WSW	2	o	*
Mulin Head ...	29.90	58	52	WSW	5	bc	3	Yarmouth ...	30.16	66	58	WSW	3	b	3
Mullaghmore ...	30.00	58	55	WSW	6	c	4	Rochefort ...	30.45	69	62	ESE	2	b	*
Belmullet ...	30.01	58	55	W	4	o	*								

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

Weather dull at several of our western and northern stations, as well as in Norway, Germany, and the south of France; rain falling at Christiansund and also at Goulon and passing showers at Malin Head, Pembroke, Jersey, and Hurst Castle. Fine in nearly all other parts of Europe, but with fog or mist in places. Showers falling during day in nearly all the more eastern and northern parts of the United Kingdom, and heavy rain at some of the French stations (1.3 ins. at Belfort and Nice).

Temperature highest 76° at Tunis, 75° at Sanguinaire, 71° at Trieste, and 70° at Algiers and Malta; above 60° at nearly all the Mediterranean stations, and above 55° in most parts of the United Kingdom. Lowest 43° at Hermannstadt, 44° at Moscow, 45° at Uleaborg and 46° at Nikolaieff; below 50° in some parts of Central France. Subsequently rising to 65° or a little above in many parts of Great Britain and to 70° or more in the west and south of France.

Wind light to fresh from the SWrd over the whole of Northwestern and Northern Europe; light from the SWrd over Austria and eastern Germany. Light from NW over South Germany and the east and south of France; variable in Italy; light or moderate from the SErd in Algeria. Subsequently veering to the Wnd in nearly all parts of the United Kingdom.

Barometer highest, 30.4 ins. to 30.5 ins. and upwards, in a large anticyclone lying over the central and southern part of Russia; 30.3 ins. and upwards, in another system lying over France, South Germany, and the north of Spain. Lowest, 29.6 ins. and less, in a large area lying to the northward of our Islands and the westward of Norway. Low-pressure system subsequently moving northwards and barometer rising in all parts of the United Kingdom.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for *Friday, 26th September, 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.		Weather.	Sea. (0 to 3.)	Shade Temp.		Amount of Rainfall.
				Force. (0 to 12.)			Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirce.	Force. (0 to 12.)			Max.	Min.	
SCANDINAVIA.																		
Haparanda ...	29.60	51	W	2	b	29.62	00	44	40	- 9	W	2	b	*	55	?	-	-
Hernösand ...	29.56	47	W	0	b	29.56	+ 1.3	43	41	- 11	W	0	b	*	59	?	0.24	-
Stockholm ...	29.91	54	W	4	b	30.00	- 0.0	48	46	- 9	W	2	b	*	63	52	0.04	-
Wishby ...	30.01	57	W	6	c	30.04	- 0.8	53	50	- 2	W	6	b	*	63	52	-	-
Bodö ...	29.52	46	W	9	r	29.56	+ 1.1	43	39	- 5	W	6	c	4	48	41	0.35	-
Christiansund ...	29.89	48	W	8	r	29.47	- 2.3	46	44	- 4	W	7	r	4	5	45	0.55	-
Skudesnaes ...	30.13	52	W	5	b	29.75	- 2.5	56	56	+ 4	W	9	r	5	56	52	0.59	-
Christiania Fjord (Parker)	30.03	56	W	5	b	29.89	+ 0.2	54	50	- 4	W	5	r	4	61	52	-	-
Skagen (The Seaw)	30.01	55	W	6	b	30.01	+ 0.6	52	50	- 5	W	6	r	4	61	52	-	-
Fanö ...	30.27	53	W	4	c	30.15	+ 0.5	55	53	- 4	W	6	r	*	61	52	0.08	-
Sumburgh Head	30.02	50	W	3	o	29.57	- 3.8	56	55	+ 5	W	6	o	6	56	47	0.30	-
Stornoway ...	29.93	52	W	6	r	29.82	- 2.7	59	59	+ 8	W	7	r	6	59	48	0.52	-
Wick ...	30.08	51	S	3	o	29.78	- 3.2	62	59	+ 11	W	4	o	5	62	49	0.25	-
Nairn ...	30.06	54	W	1	o	29.82	- 3.1	63	61	+ 13	W	3	c	3	63	49	0.12	-
Aberdeen ...	30.17	54	S	2	o	29.57	- 3.2	62	58	+ 12	W	3	b	3	62	50	0.36	-
Leith ...	30.21	57	W	1	c	30.04	- 1.9	61	59	+ 9	W	5	o	*	64	51	0.11	-
Shields ...	30.32	55	W	1	o	30.08	- 1.6	63	60	+ 13	W	4	o	2	63	47	0.07	-
Spurn Head ...	30.39	57	W	2	cm	30.26	- 0.2	58	54	+ 2	W	3	cm	3	61	52	0.07	-
York ...	30.38	55	W	1	b	30.24	- 0.5	62	59	+ 9	W	4	o	*	63	50	0.13	-
Loughborough	30.42	56	W	1	b	30.33	- 0.2	59	57	+ 3	W	3	r	*	63	51	0.01	-
BRITISH ISLANDS.																		
Ardrossan ...	30.20	57	S	3	p	30.12	- 1.4	61	59	+ 7	SSW	1	c	4	61	52	0.21	-
Malin Head ...	30.10	55	SSW	6	og m	30.12	- 1.3	59	58	+ 7	W	6	od	4	59	52	0.17	-
Mullaghmore ...	30.22	58	SSW	6	og p	30.29	- 0.2	60	59	+ 8	W	5	orm	4	60	52	0.02	-
Belmullet ...	30.23	58	W	7	o	30.30	- 0.1	59	59	+ 5	W	5	o	*	59	54	0.03	-
Donaghadee ...	30.28	57	W	3	c	30.24	- 0.9	63	61	+ 13	W	3	o	1	65	50	0.01	-
Liverpool (Bidston)	30.40	55	W	2	c	30.30	- 0.4	64	60	+ 9	W	4	o	4	65	53	0.01	-
Holyhead ...	30.38	56	SSW	3	c	30.36	+ 0.1	59	58	+ 4	W	4	og	4	63	55	-	-
Parsonstown ...	30.36	59	W	0	o	30.40	+ 0.2	59	58	+ 8	W	1	o	*	62	50	0.01	-
Valencia ...	30.44	60	W	3	og	30.50	+ 0.8	60	59	+ 4	W	3	o	4	62	55	0.01	-
Roche's Point...	30.45	60	W	3	b	30.48	+ 1.2	58	55	+ 3	W	4	b	3	62	55	-	-
Pembroke (St. Ann's Hd.)	30.47	58	W	3	c	30.48	+ 0.7	58	57	+ 1	W	4	c g g	4	59	56	-	-
Seilly ...	30.50	59	W	2	b	30.56	+ 1.3	59	58	0	W	4	o	1	62	53	-	-
Prawle Point ...	30.51	56	W	3	c	30.54	+ 1.0	58	57	+ 1	W	5	o	3	62	53	-	-
Jersey (St. Aubin's)	30.52	61	W	3	b	30.58	+ 1.3	60	58	- 1	W	3	b cm	3	65	49	-	-
Hurst Castle ...	30.48	60	W	1	b	30.51	+ 1.0	60	58	- 1	W	5	o	2	67	52	-	-
Dungeness ...	30.40	60	E	2	c	30.44	+ 0.9	60	57	0	W	5	c	3	69	48	0.02	-
London ...	30.44	56	W	1	b	30.43	+ 0.6	57	55	0	W	3	o	*	67	49	-	-
Oxford ...	30.48	56	W	2	o	30.42	+ 0.4	59	57	+ 3	W	2	o	*	64	50	-	-
Cambridge ...	30.44	60	W	1	b	30.38	+ 0.2	61	58	+ 2	W	3	o	*	67	47	-	-
Yarmouth ...	30.39	58	W	1	b	30.33	+ 0.3	55	54	- 3	W	4	cdm	2	63	51	0.01	-
GERMANY & HOLLAND.																		
Cuxhaven ...	30.33	56	W	3	c	30.29	+ 0.8	54	52	- 2	W	3	o	*	62	53	-	-
Berlin ...	30.31	60	W	3	o	30.39	+ 0.8	54	52	- 3	W	3	b	*	62	52	-	-
Wiesbaden ...	*	*	*	*	*	30.50	+ 1.3	53	51	- 6	W	0	o	*	66	48	-	-
Munich ...	30.49	52	W	3	r	30.55	+ 2.0	53	52	- 3	W	2	o	*	61	50	0.20	-
The Helder ...	30.40	58	W	2	b	30.30	+ 0.8	59	54	- 1	W	4	c	4	63	55	0.04	-
FRANCE AND BELGIUM.																		
Brussels (D. m.)	*	*	*	*	*	30.44	+ 1.1	53	53	0	W	3	o	*	65	50	0.04	-
Cape Gris Nez	30.43	61	W	4	b	30.46	+ 0.7	58	55	- 2	W	5	o	5	66	55	-	-
Paris ...	30.49	60	W	0	o	30.56	+ 1.1	47	47	- 5	W	1	o	*	66	45	-	-
Brest ...	30.48	60	W	1	b	30.56	?	58	57	0	W	1	o	0	?	52	-	-
Lorient ...	30.52	62	W	3	o	30.60	+ 1.7	53	53	- 6	W	0	o	2	66	50	0.08	-
Rochefort ...	30.58	64	W	4	o	30.61	+ 1.0	57	57	0	W	1	b	*	70	50	-	-
Belfort ...	30.52	59	W	1	o	30.53	+ 1.7	55	49	+ 1	W	1	b	*	65	47	0.04	-
Lyons ...	*	*	*	*	*	30.30	+ 0.2	61	55	+ 6	W	4	b	2	70	55	-	-
Nice ...	30.28	61	W	5	c	30.44	+ 0.1	63	55	+ 5	W	4	b	*	73	?	-	-
Perpignan ...	30.41	65	W	3	b	30.51	+ 0.6	55	54	0	W	3	b	1	70	54	-	-
Biarritz ...	30.46	64	W	5	b	30.51	+ 0.6	55	54	0	W	3	b	1	70	54	-	-
PENIN. ISLANDS.																		
Corunna ...	*	*	*	*	*	30.30	+ 0.1	65	55	+ 2	W	5	b	2	84	?	-	-
Lisbon ...	30.25	73	W	4	b	30.30	+ 0.1	65	55	+ 2	W	5	b	2	84	?	-	-

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

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

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for 8 a.m. on

Friday, 26th September,

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.

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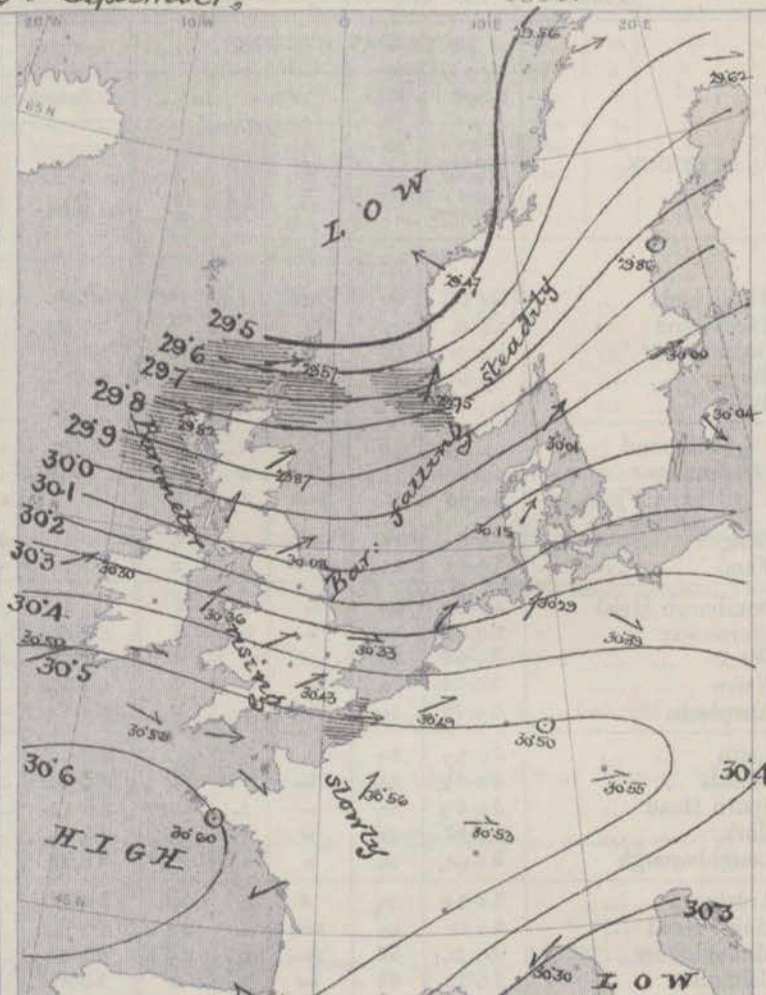
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.763
Stornoway	29.780
Wick	29.793
Nairn	29.809
Aberdeen	29.819
Leith	29.846
Shields	29.869
York	29.905
Loughborough	29.924
Ardrossan	29.850
Donaghadee	29.869
Holyhead	29.894
Liverpool	29.899
Parsonstown	29.904
Valencia	29.917
Roche's Point	29.915
Pembroke	29.918
Scilly	29.943
Jersey	29.955
Hurst Castle	29.960
Dover	29.941
LONDON	29.915
Oxford	29.935
Cambridge	29.931
Yarmouth	29.916



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.

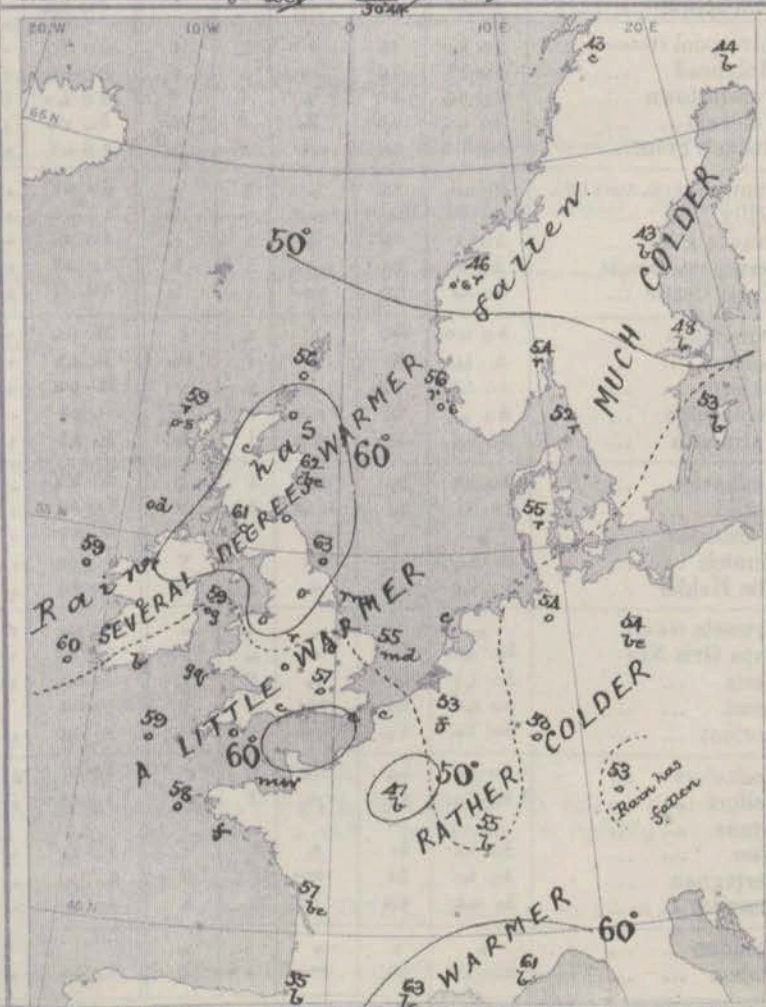
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of September.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	55.2	46.3	50.9	49.2	3.46
Stornoway	56.1	45.7	51.1	49.8	4.13
Wick	57.6	45.5	51.8	49.9	2.66
Nairn	59.0	46.8	51.2	48.8	2.73
Aberdeen	59.2	46.7	52.1	49.8	2.22
Leith	62.2	47.6	53.2	50.8	2.47
Shields	59.9	49.3	53.1	51.1	2.68
York	63.3	47.3	52.8	51.0	2.98
Loughborough	65.0	47.9	51.3	52.4	3.06
Ardrossan	69.7	49.6	53.5	51.3	3.87
Donaghadee	59.6	48.8	53.3	52.1	3.22
Holyhead	60.6	52.8	55.7	53.6	3.35
Liverpool	61.2	50.9	54.5	51.9	3.56
Parsonstown	61.6	47.5	53.1	51.1	3.49
Valencia	61.7	51.5	56.3	53.9	4.87
Roche's Point	61.9	51.0	55.4	53.2	4.39
Pembroke	60.2	53.1	56.2	53.8	3.89
Scilly	61.8	54.8	58.4	55.2	3.69
Jersey	65.2	54.9	59.8	57.1	3.51
Hurst Castle	64.2	52.2	57.2	55.8	3.35
Dover	62.9	53.0	57.9	55.3	2.86
LONDON	66.3	49.4	55.9	53.6	2.50
Oxford	63.8	49.1	54.2	52.3	2.91
Cambridge	65.6	48.1	54.4	52.9	2.48
Yarmouth	62.0	51.1	56.2	54.4	3.17

NOTE.—The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 20 years 1864-85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.4 in. to 30.6 in. in an anticyclone lying over France, the south of our Islands, and the Bay of Biscay.
lowest, 29.5 in. and less, in a depression off the west of Norway.
Gradients rather steep, for W winds, except within the region of the anticyclone referred to above.
Barometer rising in the northwest, west and southwest, falling over Scandinavia.

TEMPERATURE

Highest, 65° at Lisbon, 60° to 63° over Scotland, 60° at Valencia and Algiers.
lowest, 43° to 46° over the northern half of Scandinavia, 47° at Paris.
The daily maxima recorded yesterday averaged 70° at some of the French stations, and ranged between 65° and 69° over our southern countries, and between 60° and 63° in the north.

WIND

W^{1/2}, fresh to a moderate gale over the northern parts of our Islands, moderate in the south; SW^{1/2}, strong on the northeastern shores of the North Sea, S^{1/2} to SE^{1/2}, a gale, in the west of Norway.

WEATHER

Fine and bright over France, dull generally elsewhere, with rain in the west of Norway, and at some English stations.
Rain has fallen over Ireland and Scotland, most in the north. Solar and lunar halos were seen in several places yesterday.

SEA

Rough in the far north, moderate in the west and northwest and at the Hebrides, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

As the disturbance in the far north passes off the wind will probably become moderate in the northeast, north, and northwest, but other disturbances will probably advance shortly. Warming signals in the north and northwest are not lowered yet.

FORECASTS

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

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	W ^{1/2} to SW ^{1/2} winds, strong; squally, changeable, showery.	6 SCOTLAND WEST	Same as N° 0.
1 SCOTLAND EAST	W ^{1/2} winds, fresh to moderate, fair as a whole.	7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	W ^{1/2} and SW ^{1/2} winds, fresh or strong; gusty, some passing showers.
3 ENGLAND EAST	W ^{1/2} winds, moderate or fresh; gusty, perhaps a little rain occasionally.	9 IRELAND NORTH	
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH			
		WARNINGS	The SOUTH CONE was hoisted last evening in districts 0, 6, and part of 9.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	30.10	55	50	W	6	0	3		Holyhead ...	30.41	59	54	W	2	2
Sumburgh Head ...	30.03	53	50	W	3	c	4		Valencia ...	30.44	61	59	S	4	4
Stornoway ...	30.10	54	52	W	3	c	3		Scilly ...	30.47	62	60	W	2	1
Aberdeen ...	30.20	58	51	SW	2	bc	1		Jersey ...	30.50	64	61	W	3	3
Shields ...	30.31	60	52	W	3	c	2		Dungeness ...	30.58	65	62	W	4	3
Ardrossan ...	30.28	56	53	SSW	3	0	3		London ...	30.41	65	59	W	2	3
Malin Head ...	30.24	56	52	S	4	0	3		Yarmouth ...	30.36	62	57	W	2	3
Mullaghmore ...	30.29	59	54	SEW	3	0	3		Rochefort ...	30.57	69	63	W	3	3
Belmullet ...	30.28	57	55	W	5	0	*								

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

Weather fair over the greater part of Europe, but dull at several of the English and Irish stations, and raining in the west and south of Norway, as well as in the east of France and some parts of Algeria. Rain falling later in all the more northern parts of the United Kingdom; solar and lunar halo seen at some of the English stations.

Temperature highest 73° at Cagliari, 71° at Tunis, and 70° at Oran and Annaba, above 60° over nearly the whole of Southern Europe, as well as at some of the Channel stations. Lowest 46° at Moscow, 47° at Kharkov, 48° at Podo, and 49° at Koniak; varying between 50° and 54° in the northern part of our Islands. Daily maxima over the southeast of England varying between 65° and 70°, but thermometer remaining below 65° in most other parts of the Kingdom.

Wind light from the Wnd in our Islands, moderate to strong from the SWnd over Scandinavia, Denmark, and the Baltic; light from the Snd in the north of Russia. Light to fresh from between E. and N. over Spain and the south of France, and from the SEnd in Algeria. Variable over Germany and Austria and the southern parts of Italy and Russia. Subsequently backing to the SWnd in the extreme northwest of our Islands and increasing to a moderate gale.

Barometer highest, 30.4 in: and upwards, in an anticyclone lying over France, the Bay of Biscay, the north of Spain, and the southwest of our Islands, and also in another system lying over Russia. Lowest, 29.5 in: and less, in a depression lying off the northwest of Norway. New disturbance approaching our northwest coast later, and barometer falling quickly in the west of Scotland and north 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 *Saturday, 27th September, 1890.*
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM. Reading at 32° F. and Sea Level.	TEMP. Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 2.)	SHADE TEMP.			
			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.	Amount of Rainfall.		
SCANDINAVIA.																		
Haparanda ...	29.38	46	SW	4	7	29.26	- .36	42	41	- .2	NE	2	0	*	50	37	0.16	
Hernösand ...	29.30	45	Z	0	0	29.41	- .45	51	48	+ .8	NNW	4	bc	*	50	37	0.04	
Stockholm ...	29.47	51	SW	4	0	29.53	- .47	55	47	+ .7	NNW	8	b	*	59	43	0.28	
Wisby ...	29.60	55	W	8	0	29.64	- .40	56	50	+ .3	NNW	8	b	*	57	50	0.12	
Bodö ...	29.18	43	ENE	2	C	29.43	- .13	45	39	+ .2	WSW	2	b	1	?	39	-	
Christiansund	29.25	51	SW	4	7	29.64	+ .17	51	49	+ .5	WSW	8	7	6	52	?	0.63	
Skudesnaes ...	29.91	55	NNW	8	C	29.98	+ .23	52	50	- .4	W	2	7	3	57	50	0.55	
Christiania Fjord (Farder)	29.59	60	NNW	6	b	29.79	- .10	57	51	+ .3	W	5	c	4	59	?	0.12	
Skagen (The Scaw)	29.71	56	NNW	6	b	29.89	- .12	55	51	+ .3	NNW	6	bc	4	59	52	0.08	
Fanö ...	30.04	58	NNW	5	b	30.13	- .02	57	55	+ .2	NNW	4	b	*	59	54	0.24	
Sumburgh Head	29.85	54	W	6	C	29.89	+ .32	52	52	- .4	W	3	0	4	58	47	0.19	
Stornoway ...	30.08	56	W	4	0	29.99	+ .17	57	56	- .2	W	5	0	5	60	53	0.04	
Wick ...	30.05	56	NW	1	bc	30.01	+ .23	56	55	- .6	NW	1	bc	2	63	50	0.10	
Nairn ...	30.07	59	W	3	C	30.00	+ .18	62	60	- .1	WSW	4	C	2	65	56	-	
Aberdeen ...	30.10	62	WSW	3	bc	30.04	+ .17	67	61	+ .5	SW	3	bc	2	72	57	-	
Leith ...	30.18	58	W	3	b	30.16	+ .12	62	59	+ .1	W	5	0	*	65	59	-	
Shields ...	30.20	64	W	5	bc	30.25	+ .17	64	61	+ .1	WSW	3	0	2	66	60	-	
Spurn Head ...	30.28	62	WSW	5	C	30.34	+ .06	68	61	+ .5	WSW	3	om	4	64	57	-	
York ...	30.30	63	W	4	C	30.34	+ .10	62	60	0	W	3	b	*	65	60	-	
Loughborough	30.39	63	W	2	C	30.41	+ .08	62	61	+ .3	WSW	3	cw	*	65	58	-	
Ardrossan ...	30.25	60	WSW	3	7	30.22	+ .10	60	59	- .1	WSW	3	C	3	62	58	-	
Malin Head ...	30.25	58	SW	5	0cl	30.22	+ .10	58	57	- .1	WSW	5	0ap	3	59	47	0.03	
Mullaghmore ...	30.36	60	SW	5	orm	30.34	+ .05	59	58	- .1	SW	5	om	4	61	57	0.02	
Belmullet ...	30.38	59	WSW	4	0	30.36	+ .06	58	57	- .1	W	4	om	*	60	57	0.01	
Donaghadee ...	30.33	64	WSW	2	C	30.32	+ .08	62	60	- .1	W	3	C	1	68	60	-	
Liverpool (Bidston)	30.38	63	W	6	0	30.40	+ .10	61	60	- .3	WSW	4	0	3	65	61	-	
Holyhead ...	30.42	61	SW	1	ag	30.41	+ .05	61	59	+ .2	WSW	3	C	2	65	59	-	
Parsonstown ...	30.46	60	WSW	2	0	30.46	+ .06	56	55	- .3	Z	0	0	*	60	56	0.01	
Valencia ...	30.54	60	WSW	2	om	30.52	+ .02	58	56	- .2	SSW	1	0	1	61	55	-	
Roche's Point...	30.51	63	W	3	C	30.50	+ .02	54	53	- .4	W	3	f	3	67	53	-	
Pembroke (St. Ann's Hd.)	30.51	57	WSW	4	f	30.49	+ .01	57	57	- .1	W	2	f	3	60	57	-	
Scilly ...	30.56	57	NW	4	f	30.50	- .06	57	57	- .2	NNW	3	1	1	60	53	0.01	
Prawle Point...	30.54	58	NW	4	C	30.50	- .04	60	59	+ .2	S	1	bc	1	63	54	-	
Jersey (St. Aubin's)	30.55	60	NNW	3	ogm	30.50	- .08	60	60	0	NNW	2	ogm	2	62	58	-	
Hurst Castle ...	30.49	62	W	4	cg	30.48	- .03	61	60	+ .1	NNW	1	om	1	65	59	-	
Dungeness ...	30.40	63	NNW	3	C	30.44	- .00	59	59	- .1	Z	0	f	0	60	56	-	
London ...	30.43	64	NNW	2	cm	30.44	+ .01	61	60	+ .4	W	1	0	*	68	56	-	
Oxford ...	30.46	60	WSW	3	C	30.46	+ .04	60	59	+ .1	WSW	1	0	*	66	58	-	
Cambridge ...	30.41	64	SW	1	C	30.42	+ .04	63	62	+ .2	SW	1	0	*	70	52	-	
Yarmouth ...	30.32	65	NW	5	C	30.37	+ .04	64	62	+ .9	NNW	3	bc	2	67	54	-	
Cuxhaven ...	30.14	59	W	6	7	30.19	- .10	60	60	+ .6	W	4	bc	*	62	?	0.20	
Berlin ...	30.17	56	W	4	7	30.22	- .17	61	58	+ .7	NNW	6	C	*	63	?	0.12	
Wiesbaden ...	*	*	*	*	*	30.45	- .05	60	58	+ .7	W	1	0	*	64	?	-	
Munich ...	30.52	53	SW	3	C	30.52	- .03	58	54	+ .3	W	2	C	*	61	50	-	
The Helder ...	30.29	62	W	3	bc	30.33	+ .03	61	60	+ .2	NNW	2	b	3	63	59	-	
Brussels (9 a.m.)	*	*	*	*	*	30.45	- .04	59	59	+ .6	WSW	1	f	*	60	?	-	
Cape Gris Nez	30.43	61	W	5	0	30.47	+ .02	60	59	+ .2	W	2	m	1	64	57	-	
Paris ...	30.53	60	WSW	1	0	30.49	- .07	58	58	+ .11	W	1	0	*	64	39	0.04	
Brest ...	30.54	60	NNW	2	0	30.45	- .11	55	55	- .3	E	2	m	3	?	48	-	
Lorient ...	30.56	63	W	2	bc	30.49	- .11	57	56	+ .4	E	3	m	2	66	52	-	
Rochefort ...	30.59	63	NW	5	b	30.50	- .11	59	57	+ .2	NE	3	C	*	70	54	-	
Belfort ...	30.45	61	WSW	1	b	30.43	- .10	50	46	- .5	S	1	b	*	68	42	-	
Lyons ...	30.49	60	NNW	1	b	30.51	- .08	53	50	- .5	NW	1	b	*	66	49	-	
Nice ...	30.36	63	SW	2	b	30.38	+ .08	63	54	+ .2	ENE	5	b	1	73	57	-	
Perpignan ...	30.41	67	W	3	b	30.45	+ .01	55	51	- .8	W	2	b	*	75	50	-	
Biarritz ...	30.44	65	NE	5	C	30.38	- .13	53	51	- .2	E	2	b	1	70	50	-	
Cornana ...	*	*	*	*	*	30.15	- .15	64	56	- .1	NNE	4	bc	2	81	61	-	
Lisbon ...	30.17	75	NNW	5	0	30.15	- .15	64	56	- .1	NNE	4	bc	2	81	61	-	
PENIN- SULA.																		

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, 27th September,

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:

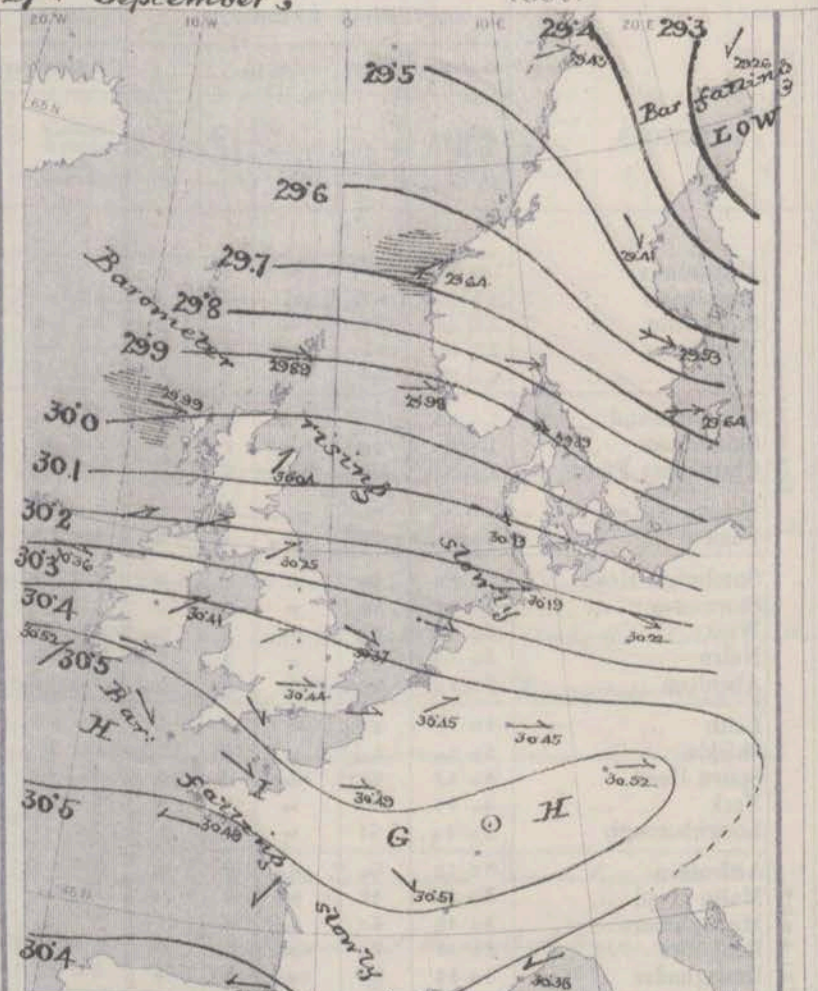
■ = Rough. ■ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years 1871-1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.766
Stornoway	29.780
Wick	29.793
Nairn	29.809
Aberdeen	29.819
Leith	29.848
Shields	29.869
York	29.905
Loughborough	29.924
Ardrossan	29.850
Donaghadee	29.869
Holyhead	29.894
Liverpool	29.899
Parsonstown	29.904
Valencia	29.917
Roche's Point	29.915
Pembroke	29.913
Seilly	29.943
Jersey	29.955
Hurst Castle	29.900
Dover	29.941
LONDON	29.945
Oxford	29.935
Cambridge	29.931
Yarmouth	29.916



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.

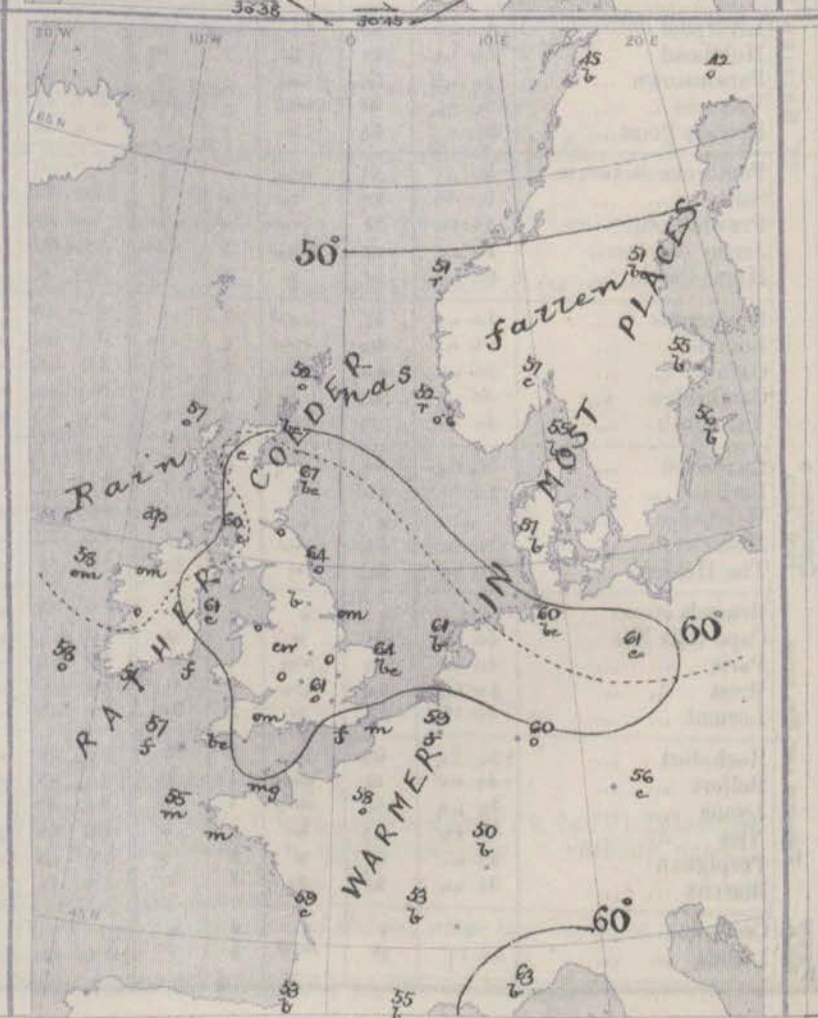
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of September.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily MAX.	Daily MIN.	AT 8 A.M.		
			Dry.	Wet.	
Sumburgh Head.....	55.2	46.3	50.9	49.2	3.40
Stornoway	56.1	45.7	51.1	49.8	4.13
Wick	57.6	45.5	51.8	49.9	2.66
Nairn	59.0	46.8	51.2	48.8	2.73
Aberdeen	59.2	46.7	52.1	49.8	8.22
Leith	62.2	47.6	53.2	50.8	2.47
Shields	59.9	49.3	53.1	51.1	2.58
York	63.3	47.3	52.8	51.0	2.98
Loughborough	65.0	47.9	54.3	52.4	3.06
Ardrossan	59.7	49.6	53.5	51.3	3.87
Donaghadee	59.6	48.8	53.3	52.1	3.22
Holyhead	60.6	52.8	55.7	53.6	3.35
Liverpool	61.2	50.9	54.5	51.9	3.56
Parsonstown	61.6	47.5	53.1	51.1	3.49
Valencia	61.7	51.5	56.3	55.9	4.87
Roche's Point	61.9	51.0	56.4	53.2	4.39
Pembroke	60.2	53.1	56.2	53.8	3.89
Seilly	64.8	54.8	58.4	56.2	3.69
Jersey	55.2	54.9	59.8	57.1	3.51
Hurst Castle	64.2	52.2	57.2	55.8	3.35
Dover	63.9	53.0	57.9	56.3	2.86
LONDON	66.5	49.4	55.9	53.6	2.59
Oxford	63.8	49.1	54.2	52.3	2.91
Cambridge	65.5	48.1	54.4	52.3	2.18
Yarmouth	62.0	51.1	56.2	54.4	3.17

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, 30.4 in: to 30.5 in: and more, over Ireland, England, France, and the Bay of Biscay;
Lowest, 29.3 in: and less, over the northern half of the Gulf of Bothnia; 29.5 in: at Sumburgh Head, 30.2 in: and less, in the southeast of Spain.
Gradient moderate for Wth winds over our Islands and the North Sea, rather steep over the south of Sweden, very slight and irregular over France.
Barometer changing but little and irregularly.

TEMPERATURE

Highest, 67° at Aberdeen, 64° at Lissens, Yarmouth and Shields; 63° at Spurn H^d and Cambridge.
Lowest, 42° at Kapuranga, 48° at Bodø, 51° at Hornsund, 52° at Sumburgh Head.

The daily maxima recorded yesterday were as high as 72° at Aberdeen, 70° at Cambridge, 68° at Dungeness, 65° in London and in the north of Ireland.

WIND

Light from NE. and E. over the Bay of Biscay, from NW. and W. in the Channel, from W. over England.

Moderate from W. and SW. on our northwestern and western coasts.

A Wth gale is blowing in many parts of Scandinavia.

WEATHER

Rainy in the coast of Norway, fine over Sweden; cloudy over our Islands generally, foggy on our southeastern coast and in the Channel, fine and bright over Southern Europe.

Rain has fallen generally, but not heavily, at the northern and northwestern stations.

SEA

Rough in far north, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There is no indication of any important change, beyond some clearing of the sky over England, and consequently very high day temperatures.

FORECASTS

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

DISTRICTS.

FORECASTS.

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

Wth and Varying breezes, light or moderate; warm, some rain.

Same as No 5.

Wth or NWth winds, light; fair, dull at times, air damp and close.

DISTRICTS.

FORECASTS.

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

SWth and Wth winds, moderate; some slight showers.

Same as No 5.

Varying Wth breezes, moderate or light; some rain in west, fair in east.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA	SEA		BAR:	THER:		WIND		WEA	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.78	57	57	W	5	r	5		Holyhead ...	30.38	63	61	W	4	h
Sumburgh Head ...	29.71	56	53	W	4	bc	4		Valencia ...	30.53	61	60	W	4	om
Stornoway ...	30.01	59	56	W	6	c	6		Scilly ...	30.57	59	59	W	4	0
Aberdeen ...	30.00	70	62	W	4	bc q	4		Jersey ...	30.59	61	59	W	3	0
Shields ...	30.14	65	61	W	6	c	2		Dungeness ...	30.41	68	63	W	5	c
Ardrossan ...	30.21	62	60	W	4	0	4		London ...	30.43	68	64	W	2	0
Mulin Head ...	30.23	58	58	W	5	0	3		Yarmouth ...	30.31	67	62	W	5	r q
Mullaghmore ...	30.36	60	59	W	5	om	3		Rochefort ...	30.61	68	64	W	2	bc
Belmullet ...	30.36	60	59	W	5	0	*								

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

Weather fine and bright over France, Spain, and Italy, as well as in Sweden, Finland, and the south of Russia. Cloudy or overcast elsewhere, with rain in Norway, Denmark, the extreme northwest of our Islands and the southeast of England. Sky clearing later in the east and southeast of Great Britain, but rainy weather settling in over Sweden.

Temperature highest 72° at Barcelona, 71° at Aumale, 70° at Oran and Tunis; above 65° at most of the Mediterranean stations and above 60° even in Scotland. Lowest 43° at Bodö and Helsingfors, 44° at Haparanda, 45° at Khar'kov, and 46° at Uleaborg, Kuopio, and Christianund, below 50° in some parts of Central France. Subsequently, rising to between 65° and 70° in many parts of the United Kingdom and reaching 72° at Aberdeen.

Wind SW^{ly} or W^{ly} over nearly the whole of northern and northwestern Europe, but S^{ly} or SE^{ly} in the west of Norway; strong to a gale in force over the North Sea and the northern parts of our Islands. Light from the NW^{ly} in Eastern Germany, moderate to fresh from the NE^{ly} in Spain and the south of France; variable in Italy, Austria, and the south of Russia. Gale in north moderating later.

Barometer highest, 30.6 in and upwards in an anticyclone lying over the Bay of Biscay and east of France. Lowest 29.5 in and less, in a large depression lying to the northward of our Islands and the west of Norway; gradients steep over Scandinavia and the northern parts of the United Kingdom. Depression subsequently moving eastward, and barometer rising again briskly in the north of our Islands.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Sunday 28th SEPT. 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 ³⁰ P. and Sea Level.	TEMP. Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea. (0 to 12.)	SHADE TEMP.		Amount of Rainfall.		
				Dirce.	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.)		Weather.	Max.		Min.	
SCANDINAVIA.	Haparanda ...	29.32	41	Z	0	c	29.17	-.09	32	32	-10	NE	2	c	*	46	?	—	
	Hernösand ...	29.50	50	NW	2	o	29.26	-.15	45	42	-6	WNW	2	c	*	61	43	—	
	Stockholm ...	29.66	57	SW	2	b	29.48	-.05	55	50	0	W	6	bc	*	64	41	—	
	Wisby ...	29.77	55	NW	4	b	29.62	-.02	55	52	-1	W	8	b	*	59	52	—	
	Bodö ...	29.22	44	SW	6	r	29.15	-.28	45	42	0	W	4	o	2	46	39	0.47	
	Christiansund	29.43	52	W	8	r	29.51	-.13	46	42	-5	WNW	8	r	6	52	45	0.83	
	Skudeanaes ...	29.91	58	W	5	o	29.82	-.16	53	48	+1	WNW	6	r	4	57	52	—	
	Christiania Fjord (Færder)	29.74	59	W	6	b	29.66	-.12	55	46	-2	W	8	c	4	59	54	—	
	Skagen (The Scaw)	29.82	55	NW	6	b	29.77	-.12	57	50	+2	NW	7	bc	5	57	54	—	
	Fanö ...	30.08	59	W	5	o	29.98	-.15	59	59	+2	WNW	5	o	*	61	57	—	
BRITISH ISLANDS.	Sumburgh Head	29.83	53	W	4	c	29.85	-.04	48	45	-4	NW	4	b	4	57	47	0.01	
	Stornoway ...	30.02	54	W	4	bc	29.96	-.03	59	49	+2	W	3	bc	3	53	44	0.05	
	Wick ...	30.00	54	NW	2	bc	29.97	-.04	53	50	-3	NW	2	bc	1	63	48	0.02	
	Nairn ...	30.09	56	SW	1	c	29.99	-.01	52	50	-10	SW	1	c	1	64	46	—	
	Aberdeen ...	30.05	62	W	1	c	30.02	-.02	53	49	-14	WNW	2	bc	1	69	50	0.01	
	Leith ...	30.14	61	W	3	c	30.04	-.12	59	56	-3	W	2	c	*	64	54	0.04	
	Shields ...	30.20	64	WSW	3	bc	30.08	-.17	58	56	-6	W	3	cp	2	68	55	—	
	Spurn Head ...	30.27	63	WSW	2	bc	30.18	-.21	60	57	-3	WSW	4	bc	3	67	56	—	
	York ...	30.28	63	W	3	bc	30.14	-.20	59	56	-3	W	3	c	*	68	56	—	
	Loughborough	30.32	66	W	3	bc	30.21	-.20	57	54	-5	W	2	cur	*	74	49	—	
GERMANY & HOLLAND.	Ardrossan ...	30.17	60	WSW	3	c	30.06	-.16	56	54	-4	N	2	o	2	63	53	0.27	
	Malin Head ...	30.17	57	SW	5	o	30.08	-.14	53	52	-5	WNW	2	o	1	58	53	0.21	
	Mullaghmore ...	30.26	58	SSW	5	c	30.12	-.22	59	54	0	WNW	2	c	3	61	54	0.14	
	Belmullet ...	30.28	57	WSW	3	o	30.14	-.22	55	53	-3	WNW	1	bc	*	58	54	0.34	
	Donaghadee ...	30.23	63	SW	3	bc	30.11	-.21	58	56	-4	W	2	c	1	69	55	0.01	
	Liverpool (Bidston)	30.32	63	SW	2	b	30.18	-.22	58	55	-3	WSW	4	c	3	68	56	—	
	Holyhead ...	30.32	59	SW	3	b	30.18	-.23	57	55	-4	SSW	1	cgr	1	66	55	—	
	Parsonstown ...	30.37	59	Z	0	c	30.20	-.26	56	54	0	SW	2	o	*	65	55	—	
	Valencia ...	30.41	58	SW	1	o	30.25	-.27	59	56	+1	WSW	3	o	4	60	56	—	
	Roche's Point...	30.38	62	W	2	b	30.27	-.23	56	54	+2	W	1	b	3	66	50	—	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.41	54	WSW	2	f	30.26	-.23	57	55	0	WSW	3	c	3	58	54	—	
	Scilly ...	30.41	55	N	3	f	30.28	-.22	55	55	-2	NNE	1	o	3	57	52	—	
	Prawle Point ...	30.42	57	W	1	f	30.28	-.22	58	57	-2	W	1	f	0	68	58	0.01	
	Jersey (St. Aubin's)	30.42	61	NW	1	o	30.30	-.20	61	60	+1	NNW	2	omd	2	64	59	0.01	
	Hurst Castle ...	30.40	61	WSW	2	o	30.27	-.21	60	59	-1	W	1	m	1	67	58	—	
	Dungeness ...	30.39	62	W	3	rv	30.24	-.20	62	61	+3	W	2	m	1	63	58	—	
	London ...	30.26	65	SSW	1	bc	30.24	-.20	57	56	-4	W	1	o	*	73	55	—	
	Oxford ...	30.26	62	SW	1	b	30.23	-.23	55	55	-5	WSW	1	agmur.	*	76	54	—	
	Cambridge ...	30.33	66	WSW	1	b	30.21	-.21	59	57	-4	SSW	1	o	*	79	53	—	
	Yarmouth ...	30.30	69	Z	0	b	30.21	-.16	59	57	-5	W	2	bc	2	72	56	—	
PENINSULA.	Cuxhaven ...	30.21	60	W	5	o	30.13	-.06	61	60	+1	W	4	o	*	64	51	—	
	Berlin ...	30.22	64	WNW	4	o	30.15	-.07	63	59	+2	WNW	3	o	*	68	61	—	
	Wiesbaden ...	*	*	*	*	*	30.38	-.14	49	49	-7	E	1	m	*	64	45	—	
	Munich ...	30.48	54	SE	1	b	30.38	-.14	49	49	-7	E	1	m	*	64	45	—	
	The Helder ...	30.29	62	WSW	2	f	30.17	-.16	61	60	0	WSW	1	c	1	64	61	—	
	Brussels (9 a.m.)	*	*	*	*	*	30.26	-.19	60	59	+1	SW	3	o	*	67	58	—	
	Cape Gris Nez	*	*	*	*	*	30.31	-.18	53	50	-5	E	1	c	*	63	51	—	
	Paris ...	30.43	60	E	4	o	30.31	-.18	53	50	-5	E	1	c	*	63	51	—	
	Brest ...	30.32	66	N	2	o	30.27	-.18	60	59	+5	Z	0	o	1	68	58	—	
	Lorient ...	30.29	62	Z	0	o	30.28	-.21	56	55	-1	E	3	b	2	63	55	—	
PENINSULA.	Rochefort ...	30.41	68	Z	0	b	30.34	-.16	57	56	-2	ESE	3	b	?	82	52	—	
	Belfort ...	*	*	*	*	*	30.36	-.15	48	48	-5	S	1	b	*	67	46	—	
	Lyons ...	30.41	60	FNE	1	b	30.31	-.07	62	56	-1	Z	0	b	0	77	59	—	
	Nice ...	30.35	64	SW	1	b	30.32	-.13	57	56	+2	SW	2	b	*	72	52	—	
	Perpignan ...	30.38	62	E	1	b	30.32	-.13	57	56	+2	SW	2	b	*	72	52	—	
	Biarritz ...	30.30	69	E	3	b	30.24	-.14	64	58	+11	SSE	3	b	1	77	?	—	
	Corunna ...	*	*	*	*	*	30.16	-.13	62	57	-2	E	1	b	2	73	52	0.16	
	Lisbon ...	30.05	70	NNW	4	b	30.08	-.07	64	60	0	NE	4	bc	2	79	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

Sunday, 28th September,

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:

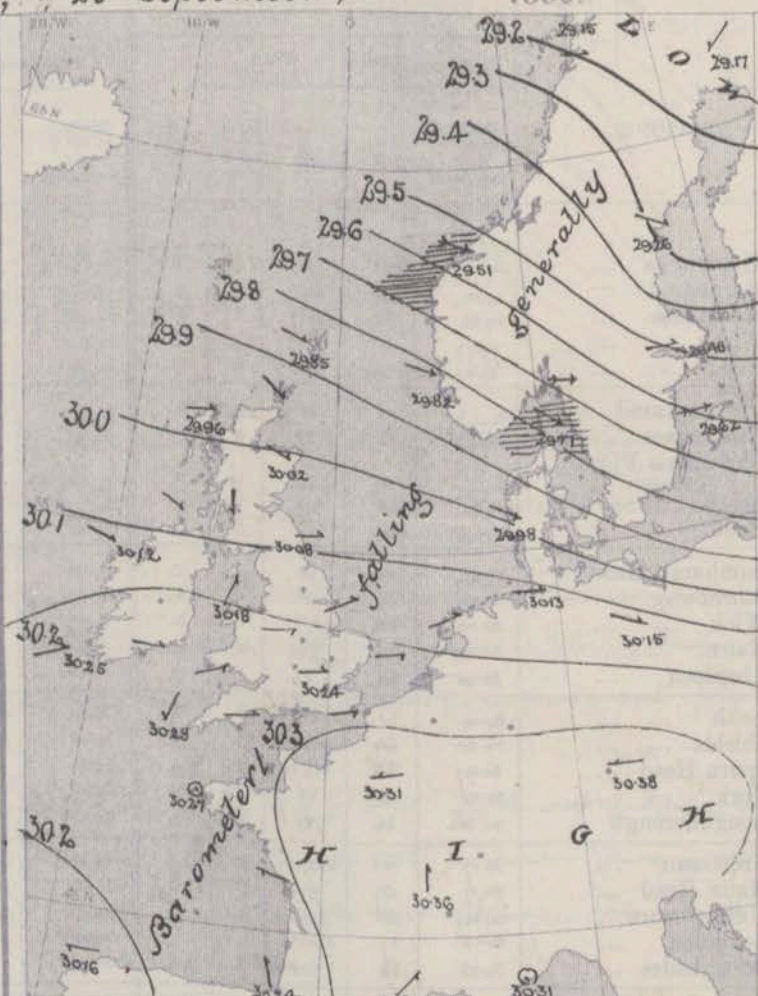
■ = Rough. ■ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.785
Stornoway	29.780
Wick	29.793
Nairn	29.803
Aberdeen	29.810
Leith	29.846
Shields	29.869
York	29.905
Loughborough	29.924
Ardrossan	29.850
Donaghadee	29.869
Holyhead	29.894
Liverpool	29.899
Parsonstown	29.904
Valencia	29.917
Roche's Point	29.915
Pembroke	29.913
Silly	29.943
Jersey	29.955
Hurst Castle	29.960
Dover	29.941
LONDON	29.945
Oxford	29.935
Cambridge	29.931
Yarmouth	29.915



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.2 ins: to 30.3 ins: and more, over France, and the southern parts of our Islands.
Lowest, 29.2 ins: and less, over Scotland and Ireland; 30.1 ins: and less over the southwest of Spain.
Gradients very slight in the south and southwest, moderate over the North Sea, slightly steep over Scandinavia.
Barometer falling rather decidedly, most at our southern stations.

TEMPERATURE

Highest, (1) 64° at Lisbon and Biarritz, 62° at Nice; (2) 63° at Berlin, 62° at Bingen, 61° at Antwerp, 60° at Harst Castle.
Lowest, (1) 48° at Lyons, 49° at Munich, 53° at Paris; (2) 32° at Haparanda, 45° at Bodö and Tromsø, 46° at Christiansund, 48° at Luleå.
 In London the air was very damp and mist was observed locally.

WIND

Strong to a gale from West over the southern half of Scandinavia.
 Light W³ over the greater part of our Islands (nearly calm in the south).
 SE³ and E³ over the Bay of Biscay — NE³, moderate at Lisbon.

WEATHER

Fine and bright over Southern Europe, and in the west of France and in Scotland, cloudy, more or less showery, with wet fog or mist at the Channel stations.
 Rain has fallen (but not heavily) at the northern and northwestern stations.

SEA

Rough in the far north, moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 20th SEPT 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

Issued
None

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 ...	29.43	57	52	WNW	2	o	3	Holyhead ...	30.37	64	61	WSW	4	b	3
Sumburgh Head ...	29.82	56	54	W	4	c	4	Valencia ...	30.46	54	58	SSW	3	om	4
Stornoway ...	30.03	58	55	W	6	bc	5	Scilly ...	30.45	57	57	NNW	3	f	1
Aberdeen ...	30.05	66	60	W	2	c	2	Jersey ...	30.46	64	62	NNW	1	o	1
Shields ...	30.21	67	62	W	5	bc	2	Dungeness ...	30.42	63	61	SW	3	o	2
Ardrossan ...	30.20	61	59	WSW	3	c	3	London ...	30.39	73	67	Z	o	bc	*
Malin Head ...	30.21	58	58	SW	5	od	4	Yarmouth ...	30.34	72	65	WNW	3	b	2
Mullaghmore ...	30.32	60	58	SW	5	o	4	Rocheport ...	30.47	79	66	E	3	b	?
Belmullet ...	30.34	57	57	N	4	o	*								

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

Continental Information to follow.

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

STATIONS.		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		BAROM. Reading at 32° F. and Sea Level.	TEMP. Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 3.)	SHADE TEMP.			
				Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.	Haparanda ...	29.21	33	2	0	b	29.28	+ 11	37	36	+ 5	nnw	2	b	*	43	?	.	
	Hernösand ...	29.80	43	NW	6	b	29.56	+ 30	42	38	- 3	Z	0	bc	*	52	41	.	
	Stockholm ...	29.64	49	NW	4	b	29.71	+ 23	45	41	- 10	W	2	0	*	59	45	.	
	Wisby ...	29.69	54	SEW	6	b	29.76	+ 14	51	49	- 4	nnw	4	0	*	59	?	.	
	Bodö	
	Christiansund	29.89	48	NW	1	0	29.68	- 17	54	52	+ 1	nnw	4	r	4	?	46	0.12	
	Skudesnaes ...	29.73	55	nnw	4	b	29.70	+ 04	52	46	- 3	nnw	4	b	3	59	50	.	
	Christiania Fjord (Færder)	29.76	55	nnw	3	b	29.76	- 01	54	52	- 3	nnw	2	bc	2	59	50	.	
	Skagen (The Scaw)	29.97	53	NW	3	c	29.87	- 11	58	56	- 1	nnw	4	c	*	59	52	0.16	
	Fanö	
BRITISH ISLANDS.	Sumburgh Head	29.82	47	S	1	0	29.47	- 38	50	49	+ 2	nnw	3	r	4	53	47	0.63	
	Stornoway ...	29.83	53	W	3	0	29.47	- 19	53	53	- 6	SW	7	r	6	56	48	0.32	
	Wick ...	29.87	53	SW	2	0	29.85	- 12	55	53	+ 2	SW	2	0	2	58	48	0.02	
	Nairn ...	29.87	50	SW	1	0	29.88	- 11	54	51	+ 2	SW	3	0	2	58	46	.	
	Aberdeen ...	29.92	54	SW	2	0	29.70	- 32	53	49	0	SW	3	0	3	61	49	.	
	Leith ...	29.97	59	W	2	c	29.78	- 26	55	51	- 4	W	5	cm	*	65	49	.	
	Shields ...	29.99	60	W	3	c	29.89	- 19	52	49	- 6	S	3	c	2	64	49	.	
	Spurn Head ...	30.07	60	W	2	0	29.99	- 14	58	55	- 2	SW	3	b	3	62	54	.	
	York ...	30.07	59	W	2	0	29.99	- 15	54	52	- 5	nnw	1	b	*	62	50	.	
	Loughborough	30.12	59	nnw	1	b	30.04	- 17	57	55	0	nnw	3	bcw	*	66	53	.	
GERMANY & HOLLAND.	Ardrossan ...	29.99	56	nnw	4	0	29.83	- 23	55	53	- 1	SW	5	0	4	60	54	0.02	
	Malin Head ...	30.02	54	W	4	0	29.79	- 29	55	52	+ 2	nnw	6	agm	3	56	52	.	
	Mullaghmore ...	30.08	55	W	4	c	29.89	- 23	55	53	- 4	SW	5	0	4	59	51	.	
	Belmullet ...	30.10	55	W	4	c	29.89	- 25	57	55	+ 2	nnw	3	0	*	57	54	.	
	Donaghadee ...	30.05	57	W	2	c	29.93	- 18	52	50	- 6	nnw	3	m	1	64	50	.	
	Liverpool (Bidston)	30.11	59	nnw	1	0	30.03	- 15	55	53	- 3	W	2	c	3	62	53	0.07	
	Holyhead ...	30.10	58	SW	2	agm	30.03	- 15	56	53	- 1	nnw	2	c	2	60	50	0.09	
	Parsonstown ...	30.11	58	Z	0	0	30.02	- 18	52	50	- 4	Z	0	0	*	60	47	0.10	
	Valencia ...	30.17	59	nnw	3	0	30.09	- 16	56	54	- 3	nnw	2	0	3	60	49	.	
	Roche's Point...	30.18	58	nnw	4	c	30.10	- 17	55	53	- 1	W	3	b	3	63	54	.	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.18	57	nnw	3	c	30.10	- 16	58	57	+ 1	nnw	4	agm	4	59	56	0.02	
	Seilly ...	30.22	56	NW	3	0	30.16	- 12	57	55	+ 2	nnw	3	0	2	59	53	.	
	Prawle Point ...	30.21	58	W	2	c	30.14	- 11	56	55	- 2	nnw	3	0	1	67	49	.	
	Jersey (St. Aubin's)	30.23	62	W	2	c	30.19	- 11	59	57	- 2	W	1	agm	1	67	56	.	
	Hurst Castle ...	30.21	60	nnw	3	b	30.16	- 11	57	56	- 2	nnw	2	bc	1	66	54	.	
	Dungeness ...	30.15	62	W	5	bc	30.12	- 12	56	54	- 6	nnw	4	c	3	68	54	.	
	London ...	30.15	67	SW	1	bc	30.11	- 13	58	55	+ 1	SW	2	bcw	*	71	52	.	
	Oxford ...	30.16	56	SW	2	b	30.11	- 12	56	55	+ 1	SW	2	c	*	68	50	.	
	Cambridge ...	30.15	60	SEW	1	bc	30.07	- 14	56	54	- 3	SW	1	c	*	68	48	.	
	Yarmouth ...	30.11	63	NW	1	b	30.05	- 16	56	54	- 3	nnw	2	bcw	2	68	51	.	
PENINSULA.	Cuxhaven ...	30.05	59	W	4	0	29.95	- 18	59	58	- 2	nnw	3	b	*	64	56	0.08	
	Berlin ...	30.08	63	W	3	c	30.08	- 07	61	58	- 2	SW	3	c	*	66	57	.	
	Wiesbaden ...	*	*	*	*	*	30.19	- 09	59	57	- 2	Z	0	0	*	68	58	.	
	Munich ...	30.29	56	Z	0	b	30.29	- 09	55	54	+ 6	SW	1	b	*	66	?	.	
	The Helder ...	30.09	59	nnw	1	b	30.02	- 15	60	58	- 1	nnw	2	c	3	64	59	.	
	Brussels (9 a.m.)	*	*	*	*	*	30.15	- 11	58	57	- 2	SW	2	0	*	65	57	.	
	Cape Gris Nez	30.20	61	SW	4	b	30.15	- 16	58	56	+ 5	NW	4	c	4	64	?	.	
	Paris ...	30.22	59	E	1	b	30.22	- 07	50	50	- 3	W	1	0	*	67	48	.	
	Brest ...	30.20	63	Z	1	b	30.19	- 08	54	53	- 6	E	2	b	3	79	49	.	
	Lorient ...	30.23	62	Z	0	b	30.17	- 11	56	55	0	ESE	1	b	2	72	55	.	
FRANCE AND BELGIUM.	Rochefort ...	30.26	69	Z	3	b	30.15	- 19	62	58	+ 5	E	3	b	*	81	54	.	
	Belfort ...	30.26	61	Z	1	c	30.20	- 11	53	43	+ 5	W	1	bc	*	71	43	.	
	Lyons ...	30.23	66	SE	1	b	30.25	- 11	56	54	+ 5	NE	1	b	*	75	?	.	
	Nice ...	30.25	63	Z	0	b	30.22	- 09	61	58	- 1	E	2	b	1	73	58	.	
	Perpignan ...	30.24	65	ESE	1	c	30.22	- 10	64	63	+ 7	E	2	0	*	74	?	.	
	Biarritz ...	30.16	74	E	3	b	30.13	- 11	71	63	+ 7	SE	2	0	1	81	64	.	
	Corunna ...	*	*	*	*	*												.	
PENINSULA.	Lisbon ...	30.06	64	ESE	4	0	20.08	- 00	63	62	- 1	ESE	3	0	?	79	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

Monday, 29th September,

1890.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

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

→ = forces 5 to 7; → = forces 1 to 4.

○ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

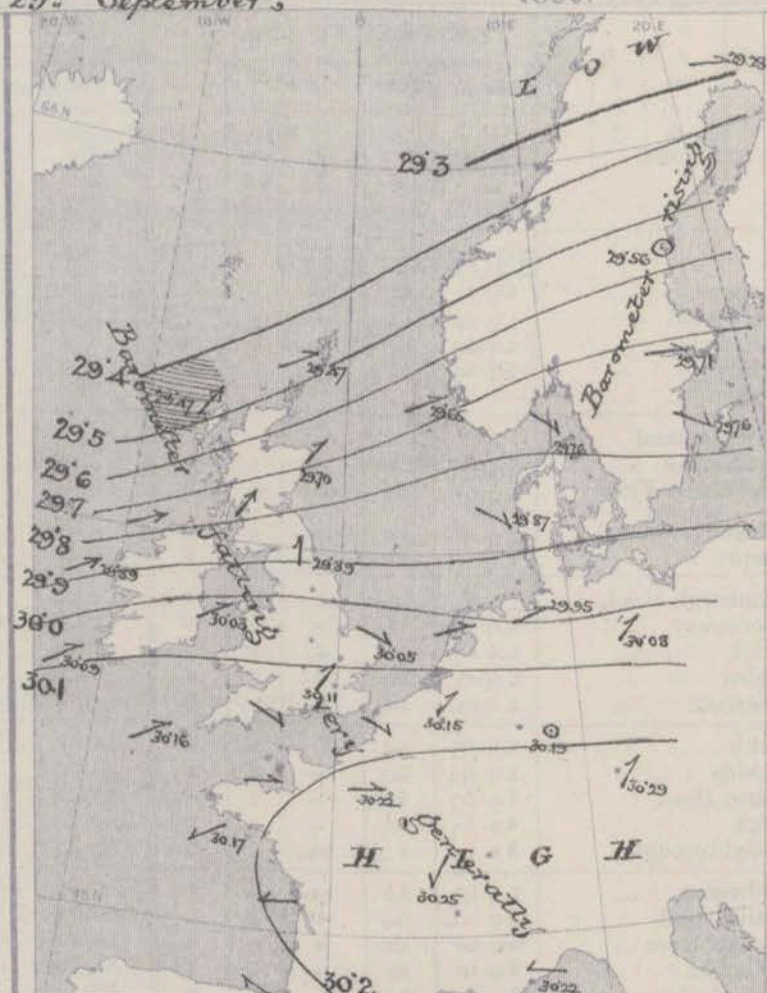
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumbargh Head	29.766
Stornoway	29.780
Wick	29.793
Nairn	29.800
Aberdeen	29.819
Leith	29.846
Shields	29.869
York	29.903
Loughborough	29.924
Ardrossan	29.850
Donaghadee	29.869
Holyhead	29.894
Liverpool	29.899
Parsonstown	29.904
Valencia	29.917
Roche's Point	29.915
Pembroke	29.913
Seilly	29.913
Jersey	29.955
Hurst Castle	29.960
Dover	29.941
LONDON	29.945
Oxford	29.935
Cambridge	29.931
Yarmouth	29.916



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.2 ins. and upwards, in an anticyclone lying over France and South Germany.
 Lowest, 29.3 ins. and less, over the northern parts of Scandinavia.
 Gradients rather steep over Scotland and the west of Norway, but slight elsewhere.
 Barometer falling at all but the Swedish ^{positions}, quickly in the north of Scotland.

TEMPERATURE

Highest, 71° at Biarritz, 64° at Perpignan, 68° at Lyons, 62° at Rochefort, and 61° at Berlin and Kiev.
 Lowest, 37° at Haparanda, 42° at Helsingfors, 45° at Stockholm, 50° at Lumburg, 54° and 51° at Paris, and 51° at Wiesbaden.
 During yesterday, the thermometer rose to 68° at Angers, Oxford, Cambridge, and Yarmouth, and 71° in London.

WIND

SW or W over the whole of Northwestern Europe, light or moderate in force generally, but fresh or strong in the north and northwest of our Islands.
 Light from the E in the west and south of France; variable in the central part of that country.

WEATHER

Fine in the east and southeast of England as well as in France, Germany, and some parts of Scandinavia.
 Dull in the western and northern parts of the United Kingdom, with rain in the Shetlands and Hebrides, and also at Rudmose.
 Rain fell yesterday at some of our western stations.

SEA

Moderate to smooth generally, but rough at Bournemouth.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression which is at present lying off the north of Scotland will probably travel away in a northeasterly direction, but other disturbances are likely to follow shortly, and a gradual extension of unsettled weather is therefore anticipated.

FORECASTS

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

DISTRICTS.

FORECASTS.

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

SW¹ winds, increasing in force;
 dull, some rain.
 SW¹ and W¹ winds, freshening;
 fair to dull and some rain.
 W¹ and SW¹ winds, light or moderate;
 fair generally, but perhaps local showers.

DISTRICTS.

FORECASTS.

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

Same as N^o 0 and 1
 Same as N^o 2
 W¹ to SW¹ winds, moderate or fresh;
 dull, rain locally.
 Same as N^o 0 and 1.
 Same as N^o 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 ...	29.88	52	47	NW	6	r	4		Holyhead ...	30.14	59	57	SW	2	0 9
Sumburgh Head									Valencia ...						
Stornoway ...	29.92	55	61	W	2	0	3		Scilly ...						
Aberdeen ...									Jersey ...	30.26	63	61	W	2	0
Shields ...									Dungeness ...	30.16	66	63	W	4	60
Ardrossan ...									London ...						8
Malin Head ...	30.05	55	52	W	3	0	2		Yarmouth ...						
Mullaghmore ...									Rochefort ...	30.29	78	69	NW	2	6
Belmullet ...	30.11	57	54	W	2	0	*								2

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

Weather fine and bright over southwestern, southern and southeastern Europe, as well as in some parts of Sweden and along the north and northeast coasts of St. Britain; cloudy or overcast elsewhere, with rain in the west of Norway, fog in several localities. Rain later over all the northern parts of our area (heavy at Sumburgh Head) and some showers at several of the Irish and Welsh stations; very fine over the east of England.

Temperature falling fast in Scotland, and, temporarily, over central France and south Germany, rising over Spain. Morning readings exceeding 70° at many of the Mediterranean stations, and exceeding 60° over the English Channel and in the Netherlands and north Germany; much lower elsewhere, and as low as 32° at Haparanda, 36° at Uleaborg, 41° at Kuopio, 44° at Archangel, and below 50° at most of the Russian stations, Sumburgh Head and several parts of France. Rising to 71° in London later and to between 70° and 81° in many parts of France.

Wind light and anticyclonic over France, Germany and Spain, light to moderate from the W. over the United Kingdom; strong to a gale from NW or W over Scandinavia, fresh W. over the Baltic, SW. over the Gulf of Finland, but NE. at Haparanda and Archangel. Backing a little on our extreme western and northwestern coasts later.

Barometer highest 30.2 ins. to 30.5 ins. and more in an anticyclonic system covering France, Germany, the Mediterranean and Bay of Biscay and southern parts of our Islands, lowest 29.2 ins. and less over Lapland, the Kola peninsula and northern Russia. Falling generally over western Europe during day and decidedly on our northwest coasts towards night.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 21ST TO 27TH SEPT. 1890

The well-marked depression which appeared off our western coasts at the close of last week moved very slowly to the north-northeastwards, and a V-shaped secondary travelled more directly over the United Kingdom. Rain fell in all parts of the country - the fall being greatest in the west, but considerable at many of the English stations - thunderstorms of great severity were reported over France. After Wednesday, however, the high-pressure area in the south was restored and spread steadily to the northwards and northwestwards. The depressions which appeared subsequently passed well to the northwestward and northward of the United Kingdom, but as they travelled over caused strong winds and moderate gales over the northern parts of the Kingdom, while fair weather prevailed in the south. Temperature rose decidedly towards the end of the week - first at the Scotch and afterwards at the English stations; on Friday the maximum reading was 72° at Aberdeen, and on Saturday 79° was recorded at Leambridge, 76° at Oxford, 74° at Loughborough, and 73° in London. The air was close over England generally, and fog occurred on our southwestern 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 *Tuesday 30th September.* 1890.
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

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

STATIONS.	YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barom. Reading at 32° F. and Sea Level.	Temp. Dry.	Wind.		Weather.	Barometer Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Shade Temp.		Wind.		Weather.	Sea. (0 to 3.)	Shade Temp.		Amount of Rainfall.			
			Force. (0 to 12.)	Dir.				Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.			Force. (0 to 12.)	Max.		Min.		
SCANDINAVIA.																			
Haparanda ...	29.20	57	NE	2	b	29.13	-15	41	40	+4	ESE	2	c	•	46	28	—		
Hernösand ...	29.34	57	S	0	c	29.71	-15	46	45	+4	SW	2	o	•	57	37	0.35		
Stockholm ...	29.51	58	S	2	T	29.13	-58	52	46	+7	WSW	6	b	•	63	39	0.12		
Wisby ...	29.60	58	SW	6	o	29.33	-43	56	54	+5	W	8	c	•	57	48	0.08		
Bodö ...	29.25	58	E	2	bc	29.80	-43	42	37	-1	ENE	4	o	2	43	36	0.20		
Christiansund	29.29	47	SE	4	c	29.75	-74	44	42	+1	WNW	4	T	5	?	43	0.55		
Skudeanaes ...	29.22	57	SW	9	o	29.41	-24	53	46	-4	WNW	8	c	5	57	48	0.32		
Christiania Fjord (Færdar)	29.38	55	SW	8	o	29.13	-57	53	48	+1	SW	10	b	8	58	34	—		
Skagen (The Scaw)	29.40	53	WSW	5	T	29.38	-38	53	47	-1	W	8	bc	7	59	50	0.20		
Fanö ...	29.68	58	WSW	6	c	29.67	-20	55	50	-3	W	6	c	•	61	54	0.08		
Samburgh Head	29.00	46	WSW	8	T	29.45	-02	45	41	-5	NW	4	c	6	53	43	0.54		
Stornoway ...	29.40	47	W	7	bc	29.55	+08	46	45	-7	W	2	o	2	56	43	0.90		
Wick ...	29.30	50	W	6	bc	29.57	+02	48	45	-7	W	2	o	2	60	40	0.04		
Nairn ...	29.43	46	SW	5	o	29.57	+01	47	44	-7	W	2	c	2	58	43	0.10		
Aberdeen ...	29.43	51	WNW	6	bc	29.64	-06	45	41	-8	SW	2	o	3	59	43	—		
Leith ...	29.52	57	W	7	T	29.69	-09	48	47	-7	W	2	Tm	•	58	46	0.17		
Shields ...	29.68	58	SW	4	o	29.75	-14	50	48	-2	NW	2	T	2	60	48	0.08		
Soun Head ...	29.84	60	W	6	c	29.84	-15	58	53	-3	SW	5	Tm	4	65	54	0.05		
York ...	29.84	58	W	2	o	29.80	-19	55	52	+1	SW	2	T	•	61	53	0.02		
Loughborough	29.93	59	W	3	b	29.91	-13	53	52	-2	SW	3	o	•	69	53	—		
ARDROSSAN ...	29.63	60	W	5	Tm	29.65	-18	50	49	-5	SE	2	Tm	2	60	48	0.39		
Malin Head ...	29.64	53	W	6	op	29.56	-23	48	48	-7	SE	4	OT	4	57	46	0.57		
Mullaghmore ...	29.78	54	SW	6	po	29.58	-31	58	57	+3	SW	6	Tog	5	58	49	0.74		
Belmullet ...	29.82	54	W	5	op	29.56	-33	58	58	+1	WSW	5	op	•	58	50	0.80		
Donaghadee ...	29.75	58	W	6	o	29.65	-28	54	54	+2	SW	4	o	2	59	50	0.52		
Liverpool (Bidston)	29.70	56	SW	4	c	29.81	-22	54	53	-1	SW	3	T	3	60	54	0.04		
Holyhead ...	29.89	58	SW	5	c	29.77	-24	55	55	-1	SW	5	Tm	4	60	52	0.27		
Parsonstown ...	29.93	57	SW	3	o	29.74	-28	56	53	+4	SW	3	o	•	60	51	0.05		
Valencia ...	30.00	58	WSW	3	om	29.82	-27	60	59	+4	SW	6	om	6	61	56	—		
Roche's Point...	30.00	58	W	4	c	29.87	-23	59	57	+4	WSW	5	bc	4	61	54	—		
Pembroke (St. Ann's Hd.)	30.01	57	W	5	bc	29.92	-18	57	56	-1	WSW	7	op	6	58	56	0.03		
Scilly ...	30.10	58	WSW	4	o	30.04	-12	57	57	0	WSW	4	c	3	62	55	—		
Prawle Point...	30.10	56	SW	5	o	30.06	-11	56	55	0	SW	5	Tm	3	60	53	0.06		
Jersey (St. Aubin's)	30.13	60	W	2	bc	30.12	-07	57	55	-2	WSW	2	om	2	63	55	—		
Hurst Castle ...	30.08	59	W	5	bc	30.04	-12	58	58	+1	WSW	5	c	3	62	57	—		
Dungeness ...	30.01	60	WNW	5	o	30.01	-11	57	58	+3	W	5	op	3	65	56	0.02		
London ...	30.02	60	WSW	2	o	30.00	-11	58	53	0	WSW	3	c	•	63	55	—		
Oxford ...	30.01	57	SW	3	o	29.98	-13	56	53	0	SW	3	c	•	63	55	0.01		
Cambridge ...	29.96	60	SW	2	b	29.94	-13	57	55	+3	SW	3	c	•	69	53	—		
Yarmouth ...	29.91	61	W	3	bc	29.92	-13	57	55	+1	W	4	c	3	64	54	—		
GERMANY & HOLLAND.																			
Cuxhaven ...	29.90	59	WSW	5	o	29.82	-13	57	57	0	WSW	5	o	•	62	58	—		
Berlin ...	29.97	62	W	2	c	29.96	-12	57	56	-2	SW	4	c	•	70	54	—		
Wiesbaden ...	30.14	•	•	•	•	30.14	-05	52	50	-7	W	0	b	•	70	48	—		
Munich ...	30.22	56	2	0	b	30.28	-01	56	54	+1	SW	2	b	•	66	48	—		
The Helder ...	29.90	60	WSW	5	c	29.91	-11	57	56	-1	WSW	4	bc	4	61	59	—		
FRANCE AND BELGIUM.																			
Brussels (9 a.m.)	30.12	•	•	•	•	30.08	-07	56	55	-2	SW	3	o	•	66	54	—		
Cape Gris Nez	30.13	59	W	1	b	30.04	-11	57	56	-1	WSW	5	T	5	63	55	—		
Paris ...	30.13	61	W	2	o	30.11	-08	57	56	+3	W	2	o	2	77	49	—		
Brest ...	30.12	64	WNW	2	b	30.14	-03	52	53	-2	WNW	2	o	2	68	54	—		
Lorient ...	30.12	64	WNW	2	b	30.14	-03	52	53	-2	WNW	2	o	2	68	54	—		
Rocheport ...	30.16	74	SE	1	b	30.19	+04	64	64	+2	W	3	o	2	84	59	—		
Belfort ...	30.16	67	S	1	b	30.23	-02	57	57	+1	W	1	o	•	75	55	—		
Lyons ...	30.20	61	SW	2	bc	30.25	+03	61	60	0	W	0	c	•	72	59	—		
Nice ...	30.17	66	E	2	o	30.22	0.0	65	64	+1	SW	2	o	•	70	62	—		
Perpignan ...	30.10	72	NE	3	o	30.16	+03	65	64	-6	SW	2	b	1	81	64	—		
Biarritz ...	30.10	72	NE	3	o	30.16	+03	65	64	-6	SW	2	b	1	81	64	—		
PENIN- SULA.																			
Corunna ...	30.12	68	SW	3	b	30.15	+07	63	62	0	ENE	2	o	3	75	63	—		
Lisbon ...	30.12	68	SW	3	b	30.15	+07	63	62	0	ENE	2	o	3	75	63	—		

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

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for 8 a.m. on

Tuesday, 30th September,

1890.

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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:

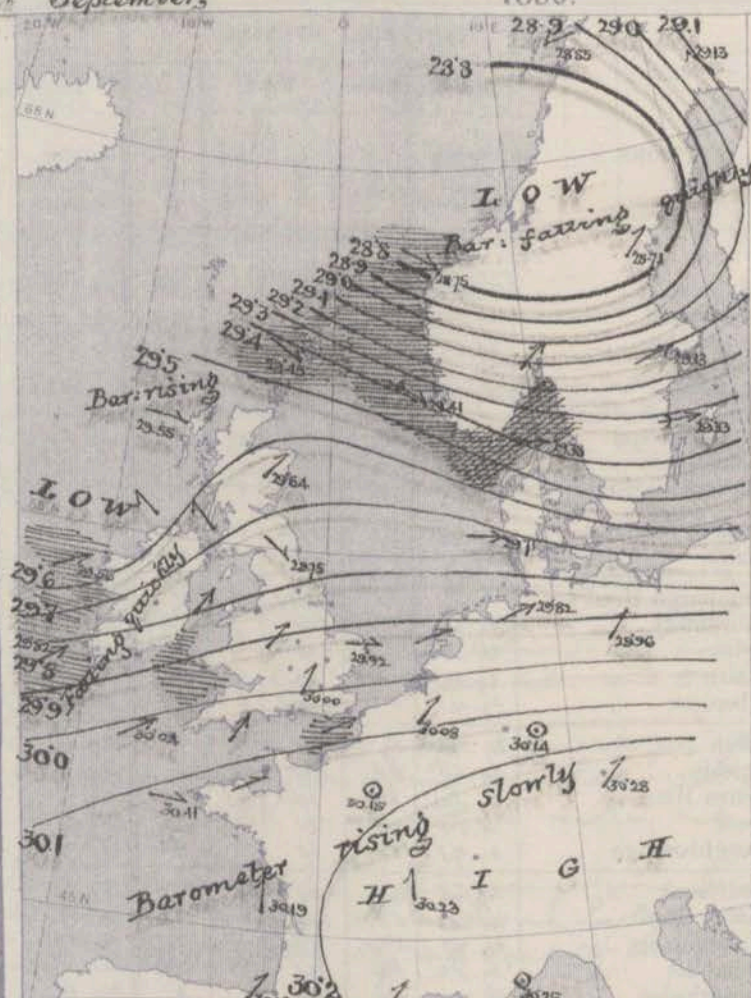
▨ = Rough, ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.766
Stornoway	29.780
Wick	29.793
Nairn	29.809
Aberdeen	29.819
Leith	29.840
Shields	29.869
York	29.905
Loughborough	29.924
Ardrossan	29.850
Donaghadee	29.869
Holyhead	29.894
Liverpool	29.899
Parsonstown	29.904
Valencia	29.917
Roche's Point	29.915
Pembroke	29.913
Scilly	29.943
Jersey	29.955
Hurst Castle	29.960
Dover	29.941
LONDON	29.945
Oxford	29.935
Cambridge	29.931
Yarmouth	29.916



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.

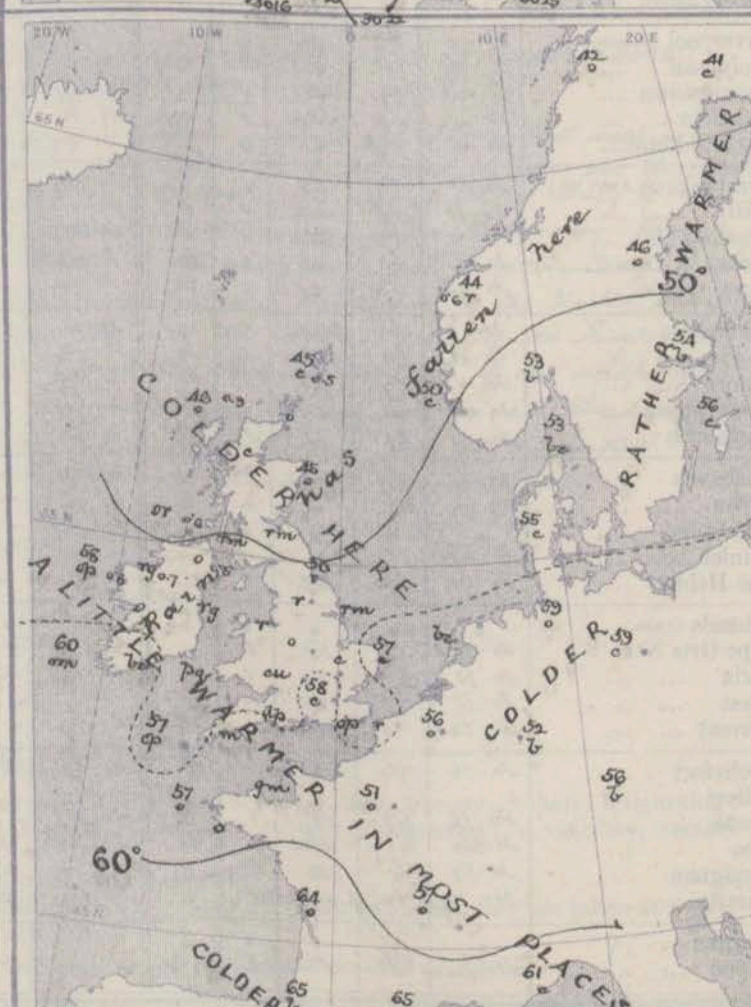
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of September.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	55.2	40.3	50.9	49.2	3.46
Stornoway	56.1	45.7	51.1	49.8	4.13
Wick.....	57.0	45.5	51.8	49.9	2.60
Nairn.....	59.0	46.8	51.2	48.8	2.73
Aberdeen.....	59.2	46.7	52.1	49.8	3.22
Leith.....	62.2	47.6	53.2	50.8	2.47
Shields.....	59.9	49.3	53.1	51.1	2.68
York.....	63.3	47.3	52.8	51.0	2.98
Loughborough.....	65.0	47.9	54.3	52.4	3.06
Ardrossan.....	59.7	49.6	53.5	51.3	3.87
Donaghadee.....	59.6	48.8	53.3	52.1	3.22
Holyhead.....	60.6	52.8	55.7	53.5	3.35
Liverpool.....	61.2	50.9	54.5	51.9	3.56
Parsonstown.....	61.0	47.5	55.1	51.1	3.49
Valencia.....	61.7	51.5	56.3	53.9	4.87
Roche's Point.....	61.9	51.0	55.4	53.2	4.39
Pembroke.....	60.2	53.1	56.2	53.8	3.80
Scilly.....	61.8	54.8	58.4	56.2	3.69
Jersey.....	65.2	54.9	60.8	57.1	3.51
Hurst Castle.....	64.2	52.2	57.2	55.8	3.35
Dover.....	62.9	53.0	57.9	55.3	2.86
LONDON.....	66.3	49.4	55.0	53.6	2.59
Oxford.....	63.8	49.1	54.2	52.3	2.91
Cambridge.....	65.5	48.1	54.4	52.9	2.48
Yarmouth.....	62.0	51.1	56.2	54.4	3.17

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 South Germany and the greater part of France.
 Lowest, 28.8 in. and less, in a large depression lying over Scandinavia.
 Gradients steep over the southern part of Scandinavia; moderate, but increasing, over the United Kingdom.
 Barometer rising in the extreme north of our islands and also in France and South Germany, but falling elsewhere.

TEMPERATURE

Highest, 65° at Rinnitz and Perpignan, 64° at Rochefort, 63° at Lebon and 61° at Nice.
 Lowest, 44° at Haparanda, 42° at Bodö, 44° at Christiansund, 46° at Lumburg Head and Aberdeen, and 46° at Hinnøysund and Stornoway.
 The highest maxima registered over our islands yesterday were 63° at Loughborough and Cambridge, and 65° at Spinn Hill and Dungeness.

WIND

SW^{ly} over Ireland, England, the Netherlands, and Germany; strong in force at many of our western stations.
 Light from the W^{ly} in the north and east of Scotland, strong to a gale from the same quarter in Denmark and the south of Scandinavia.
 Light from the E^{ly} in the north of Scandinavia, and from the S^{ly} in France.

WEATHER

A whole gale from W. was experienced yesterday in the Shetlands, and a moderate to fresh gale on other part of our northern coasts.
 Fine in Denmark, Germany, and the south of Scandinavia, but cloudy, or overcast elsewhere, with rain over the northern parts of Ireland and England, and showers at some of our southern stations.
 Since yesterday rain has fallen in the west and north of our islands, the largest amount being 0.9 in. at Stornoway, and 0.8 in. at Balmalcolm.

SEA

Very high off the south of Norway and rough on our own south-western and extreme northern coasts, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A well marked secondary depression is now approaching the north of Ireland and seems likely to travel eastwards across the Kingdom. The wind over the more southern parts of the country is therefore likely to increase in force, with gales in many places.

FORECASTS

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

DISTRICTS.

FORECASTS.

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

Wind varying greatly both in direction and force, unsettled, rain at times.

Same as N^o 5

SW^{ly} and W^{ly} winds, increasing to a gale; squally, unsettled, some rain.

DISTRICTS.

FORECASTS.

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

Same as N^o 0 and

SW^{ly} to W^{ly} or NW^{ly} strong winds and gales; squally, rain at times.

The SOUTH CONE was hoisted yesterday in districts 0, 2, 6, 7, and 9, and this morning in districts 3, 5, 8, and 10.

WARNINGS

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND		WEA.	SEA.		BAR.	THER.		WIND		WEA.	SEA.
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.52	54	51	S	6	P	4	Holyhead ...	27.75	58	54	SW	4	C	3
Sumburgh Head ...	29.13	53	52	W	5	P	5	Valencia ...	26.03	60	58	SW	5	O	5
Stornoway ...	29.33	56	54	W	7	P	6	Scilly ...	26.15	62	57	W	3	C	2
Aberdeen ...	29.44	57	52	W	7	C	4	Jersey ...	26.16	62	57	W	2	C	2
Shields ...	29.76	59	52	SW	4	C	1	Dungeness ...	26.07	62	58	W	4	C	3
Ardrossan ...	29.57	56	54	SW	6	T	5	London ...	26.04	62	58	SW	3	O	*
Malin Head ...	29.63	56	53	SW	6	O	4	Yarmouth ...	29.97	63	58	W	4	C	2
Mullaghmore ...	29.80	57	53	SW	7	O	6	Rochefort ...	26.21	78	68	W	3	C	?
Belmullet ...	29.83	58	57	W	7	O	*								

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

Weather fine and bright at most stations over the southern parts of Europe, as well as in the east of England, the north of Sweden and over Finland, cloudy or overcast elsewhere, unsettled in most parts of the British Islands, raining in Norway and the extreme north of our Islands, foggy at some of the northern French stations. A great deal of rain later over Ireland, Scotland and Scandinavia, but weather fair generally elsewhere. Temperature exceeding 70° over the southern parts of the Mediterranean and at some of the Spanish stations, and exceeding 60° in some parts of France and Italy, much lower elsewhere, but above 50° in all parts of the United Kingdom. As low as 37° at Haparanda and Uleaborg, 42° at Archangel and Kuopio, 43° in the northwest of Norway, and below 50° over all the northern parts of Russia and the Gulf of Bothnia. Rising later to between 60° and 65° over the greater part of our Islands, 70° in many parts of Germany and between 70° and 80° in the west and south of France.

Wind moderate W⁴ over northern Europe, W⁴ and SW⁴ over the British Islands, and blowing strongly on our northwest coasts, very variable over France and Spain, as well as over the Mediterranean; blowing a gale from the W⁴ in the north of our Islands later, and a moderate to fresh breeze in the south.

Barometer highest 30.1 ins. to 30.2 ins. and more over Spain, France, Germany and southeastern Europe, lowest about 29.0 ins. over the White Sea, and below 29.5 ins. off the north of Scotland. Gradients slight in the extreme south, moderate elsewhere. New depression arriving off the north of Scotland later, and moving eastwards to Scandinavia.

GENERAL REMARKS ON THE WEATHER FOR THE 24 HOURS ENDING 8 A.M. ON SEPT. 28TH

Weather in morning fine and bright over the Mediterranean and many parts of southwestern Europe, and in Sweden and Denmark. Cloudy or overcast in other places, foggy in the Channel and on our southwestern coasts, raining in Norway and Finland, rather showery at some of our northwestern stations. Showers later at many of our western and northern stations, and a considerable quantity of rain over northern Europe, weather fair or fine elsewhere.

Temperature as high as 70° or more at Brindisi, Spas, and Annale only; exceeding 60° in the south of France, on the Spanish coasts, in western Germany, and in many parts of Great Britain (67° at Aberdeen) much lower elsewhere. As low as 42° at Archangel and Haparanda, and 45° at Bodø and Kuopio; 49° at Hermanstad, 50° at Khar'kov, 51° at Lemberg. Rising to between 74° and 79° over Italy and England later, to between 75° and 85° in the west and south of France, and over Algeria, but not exceeding 46° in Lapland.

Wind blowing a gale from W. and NW over Scandinavia, strong over the Baltic and north Germany, moderate W⁴ in our Islands generally, but very light and variable over the southern countries and France, mainly NE⁴ over Spain and the south of France, S⁴, light, over northern Russia. Backing to the SW⁴ in Ireland later, and gale over the Baltic subsiding.

Barometer highest 30.4 ins. to 30.5 ins. and more over France, the Bay of Biscay, and the southern parts of our Islands; lowest 29.3 ins. and less in a complex depression over the Gulf of Bothnia, and 30.1 ins. in extreme south of Spain. Depression in north filling up later, but new one beginning to advance towards the north of Norway from the NW.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

ADDITIONS AND CORRECTIONS TO THE

1. REPORTS RECEIVED TOO LATE FOR INSERTION DAILY.

DATE.	STATIONS.	YESTERDAY EVENING.						8 A.M. TO-DAY.										PAST 24 HOURS.		
		Barometer at 29° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	SHADE TEMP.			WIND.		Weather.	Sea (0 to 2).	SHADE TEMP.		Amount of Rainfall.		
				Dir.	Force (0 to 12.)				Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force (0 to 12.)			Max.	Min.			
1	Corunna	*	*	*	*	*	30.23	-0.3	62	58	+4	NNE	5	b	6	68	52	-		
2	Corunna	*	*	*	*	*	30.12	-1.1	66	58	+4	NE	2	b	4	70	50	-		
3	Corunna	*	*	*	*	*	30.12	.00	64	57	-2	NE	1	b	2	73	50	-		
4	Corunna	*	*	*	*	*	30.17	+0.5	66	58	+2	NNE	1	b	2	75	52	-		
5	Corunna	*	*	*	*	*	30.17	.00	67	61	+1	NNE	4	b	6	75	55	-		
6	Corunna	*	*	*	*	*	30.09	-0.8	73	-	+6	NNE	1	b	5	75	59	-		
7	Corunna	*	*	*	*	*	29.99	-1.0	73	66	0	NE	1	m	3	75	61	-		
8	Corunna	*	*	*	*	*	30.18	+1.9	63	59	-10	NW	1	m	1	?	55	-		
9	Cape Gris Neg.	30.42	60	E	4	b	30.38	-1.0	58	-	+3	SE	2	m	3	66	54	-		
10	Corunna	*	*	*	*	*	30.14	-0.4	65	62	+2	N	1	f	3	72	54	-		
11	Lisbon	30.06	77	NW	4	b	30.06	-0.9	70	60	+2	NNE	1	b	2	88	68	-		
12	Corunna	*	*	*	*	*	30.05	-0.9	64	59	-1	NNE	1	b	2	70	59	-		
13	Corunna	*	*	*	*	*	30.13	+0.8	58	58	-6	N	2	f	4	68	52	-		
14	Corunna	*	*	*	*	*	30.08	-0.5	64	60	+6	NW	1	f	3	77	56	-		
15	Corunna	*	*	*	*	*	30.10	+0.2	59	59	-5	NW	1	f	3	70	55	-		
16	The Kader	30.28	69	ESE	1	b	30.26	-0.4	59	-	-1	E	1	bc	1	61	57	-		
17	Corunna	*	*	*	*	*	30.09	+0.5	63	62	-1	NW	2	0	4	72	59	-		
18	Corunna	*	*	*	*	*	29.99	-1.0	58	54	-5	NW	1	b	4	72	48	-		
19	Corunna	*	*	*	*	*	29.89	-1.0	60	60	+2	SW	2	r	4	73	55	2.80		
20	Corunna	*	*	*	*	*	30.06	+1.7	62	58	+2	SW	1	bc	3	68	55	-		
21	Corunna	*	*	*	*	*	29.87	-1.9	63	59	+1	SEE	5	0	4	68	57	-		
22	Corunna	*	*	*	*	*	29.82	-0.5	61	57	-2	S	5	0	7	66	55	0.16		
23	Corunna	*	*	*	*	*	29.83	?	59	51	?	WSW	2	b	5	64	48	0.20		
24	Corunna	*	*	*	*	*	30.18	+3.3	60	58	+3	SW	1	bc	6	68	54	-		
25	Corunna	*	*	*	*	*	30.35	+1.7	53	-	-7	NW	1	b	5	68	46	-		
26	Corunna	*	*	*	*	*	30.43	+0.8	54	52	+1	N	1	b	4	66	46	-		
27	Syone	30.47	57	SW	3	0	30.51	+0.6	54	52	+1	NW	4	b	?	60	?	-		
28	Corunna	*	*	*	*	*	30.43	.00	67	53	+3	NNE	1	bc	4	68	50	-		
29	Corunna	*	*	*	*	*	30.29	-1.4	64	61	+7	NE	3	0	5	70	54	-		
30	Keesbadi	*	*	*	*	*	30.28	-1.7	61	-	+1	SW	1	0	?	66	59	-		
31	Cape Gris Neg.	30.41	62	W	3	m	30.28	-1.9	61	-	+1	W	3	f	2	64	59	-		
32	Belfort	30.28	62	SW	1	bc	30.29	-1.4	50	-	0	WSW	1	m	6	71	42	-		
33	Bodo	29.30	44	SW	4	bc	29.28	+1.3	43	-	-2	W	6	0	5	?	39	0.35		
34	Christiansund	29.68	44	W	8	r	29.49	-0.2	43	-	-3	ENE	2	r	6	46	41	0.24		
35	Corunna	*	*	*	*	*	30.00	-1.6	59	-	-3	N	1	c	3	73	55	-		
36	Corunna	*	*	*	*	*	30.13	+1.3	61	-	+2	ENE	2	m	4	73	54	-		

2. CORRECTIONS.

DATE.	STATIONS.	YESTERDAY EVENING.					8 A.M. TO-DAY.								PAST 24 HOURS.		
		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea (0 to 9.)	SHADE TEMP.		Amount of Rainfall.
				Dir.	Force (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force (0 to 12.)		Max.	Min.	
3	Dungeness														64		
4	Parsonstown														67		
5	Spurn Head	30.26															
	Dungeness																0.01
	Mullaghmore						30.29										
7	Donaghadee						30.45										
	Parsonstown														75		
8	Mullaghmore						30.26	- 11									
	Parsonstown														72		
9	Malin Head	30.14													68		
	Parsonstown																
	Pembroke																0.02
10	Parsonstown														64		
	Jersey								70	63	+ 5						
	Hurst Castle						30.21	- 13									
11	Parsonstown														62		
12	Parsonstown														68		
	Jersey						30.28	+ 05									
13	Parsonstown														68		
14	Ardrossan															53	
	Mullaghmore	30.01															
15	Mullaghmore														68		
	Sumburgh Hd						30.05										
17	Hurst Castle																No rain
18	Trick	29.86															
	Berlin	30.13															
19	Dungeness																0.12
21	Nairn															47	
	Ardrossan	29.39															
	Mullaghmore			ESE													
	Pembroke															54	
22	Hurst Castle								55	55							0.56
	Malin Hd. 2pm																
23	Mullaghmore 2pm													2			
24	Mullaghmore 2pm									54							
25	Parsonstown																0.05
26	Ardrossan															52	
27	Mullaghmore															58	
28	Mullaghmore								55		- 4						
	Hurst Castle								59		- 2						
30	Aberdeen 2pm									43							