

METEOROLOGICAL OFFICE.

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DAILY WEATHER REPORTS.

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1<sup>ST</sup> JULY TO 31<sup>ST</sup> DECEMBER,

1891.

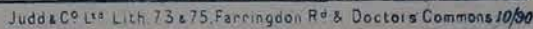
*Soc. Reg. Lond.*

22.2.93.



*July to December 1891.*

*July to December 1891.*





# DAILY WEATHER REPORT,

JULY TO DECEMBER, 1891.

## PREFACE.

The four Tables following give the Means for Pressure, Temperature, and Rainfall, with which the current Values in the Daily Weather Report may be compared.

TABLE I.—SHOWING FOR THE TELEGRAPHIC REPORTING STATIONS THE MEAN VALUES OF BAROMETRIC PRESSURE FOR EACH MONTH AND FOR THE WHOLE YEAR—DERIVED FROM OBSERVATIONS MADE AT 8 A.M. DAILY DURING THE 20 YEARS 1871—90.

STATIONS.	JAN.	FEB.	MAR.	APRIL.	MAY.	JUNE.	JULY.	AUGUST.	SEPT.	OCT.	NOV.	DEC.	ANNUAL	LIMITS OF YEARS OF ACTUAL OBSERVATION.	NO. OF YEARS.
	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.		
Sumburgh Head.	29.675	29.775	29.751	29.840	29.879	29.883	29.784	29.781	29.797	29.726	29.683	29.673	29.771	1872—1890	19
Stornoway -	29.682	29.773	29.778	29.824	29.886	29.876	29.795	29.796	29.815	29.756	29.699	29.705	29.782	1873—1890	18
Wick - -	29.719	29.804	29.793	29.848	29.901	29.898	29.806	29.810	29.829	29.763	29.722	29.718	29.801	1871—1890	20
Nairn - -	29.745	29.814	29.810	29.848	29.908	29.904	29.815	29.819	29.843	29.779	29.738	29.743	29.814	" " "	20
Aberdeen -	29.787	29.848	29.825	29.858	29.918	29.916	29.826	29.832	29.858	29.793	29.758	29.767	29.832	" " "	20
Leith - -	29.825	29.870	29.853	29.863	29.932	29.930	29.844	29.849	29.881	29.822	29.789	29.807	29.855	" " "	20
Shields - -	29.881	29.906	29.880	29.866	29.943	29.948	29.867	29.871	29.903	29.846	29.813	29.845	29.881	" " "	20
Spurn Head -	29.926	29.934	29.896	29.863	29.956	29.964	29.900	29.905	29.929	29.867	29.842	29.873	29.905	1880—1890	11
York - -	29.932	29.939	29.908	29.875	29.962	29.969	29.901	29.906	29.939	29.882	29.846	29.890	29.912	1873—1890	18
Loughborough -	29.967	29.963	29.932	29.879	29.973	29.980	29.928	29.928	29.959	29.904	29.877	29.924	29.935	1871—1890	20
Ardrossan -	29.838	29.873	29.865	29.857	29.935	29.932	29.856	29.857	29.885	29.831	29.791	29.820	29.862	" " "	20
Mullaghmore -	29.817	29.854	29.872	29.839	29.929	29.936	29.869	29.868	29.890	29.845	29.780	29.821	29.800	1879—1890	12
Donaghadee -	29.856	29.884	29.882	29.859	29.947	29.946	29.877	29.879	29.905	29.850	29.810	29.848	29.879	1873—1890	18
Liverpool -	29.924	29.934	29.911	29.867	29.961	29.966	29.906	29.906	29.935	29.879	29.851	29.895	29.911	1871—1890	20
Holyhead -	29.902	29.914	29.907	29.857	29.956	29.966	29.910	29.907	29.929	29.872	29.835	29.879	29.903	" " "	20
Parsonstown -	29.895	29.906	29.925	29.864	29.958	29.972	29.913	29.920	29.937	29.897	29.847	29.901	29.911	1873—1890	18
Valencia - -	29.887	29.919	29.925	29.854	29.963	29.975	29.935	29.927	29.947	29.896	29.865	29.905	29.917	1871—1890	20
Roche's Point -	29.908	29.916	29.927	29.851	29.959	29.973	29.932	29.927	29.946	29.892	29.865	29.912	29.917	" " "	20
Pembroke -	29.936	29.937	29.929	29.852	29.961	29.974	29.936	29.928	29.948	29.888	29.864	29.916	29.922	" " "	20
Scilly - -	29.969	29.959	29.947	29.856	29.974	29.996	29.974	29.962	29.971	29.910	29.897	29.951	29.947	" " "	20
Prawle Point -	30.006	29.993	29.965	29.876	29.992	30.007	29.987	29.975	29.998	29.931	29.914	29.970	29.968	1879—1890	12
Jersey - -	30.022	30.007	29.961	29.872	29.989	30.010	30.001	29.984	29.988	29.925	29.928	29.985	29.973	1876—1890	15
Hurst Castle -	30.002	29.986	29.954	29.871	29.982	29.998	29.968	29.965	29.991	29.922	29.902	29.958	29.958	1874—1890	17
Dover - -	30.012	29.985	29.938	29.864	29.970	29.982	29.957	29.949	29.970	29.916	29.893	29.953	29.949	1871—1890	20
London - -	30.006	29.989	29.950	29.878	29.981	29.992	29.957	29.954	29.978	29.923	29.898	29.954	29.955	" " "	20
Oxford - -	29.999	29.985	29.951	29.884	29.981	29.986	29.946	29.948	29.971	29.924	29.896	29.955	29.952	" " "	20
Cambridge -	29.993	29.979	29.941	29.880	29.976	29.985	29.937	29.937	29.965	29.912	29.887	29.941	29.944	1873—1890	18
Yarmouth -	29.979	29.964	29.920	29.872	29.967	29.977	29.929	29.928	29.948	29.894	29.865	29.916	29.930	1871—1890	20

NOTE.—When the records available have not extended over the whole of the period 1871-90, the following rules have been observed for purposes of interpolation:—

- (1) Where the observations available have not covered a period of eleven years or more they have been rejected.
- (2) When the observations have covered a period of eleven years, or more, the means have been reduced to their approximate values for the whole period by comparison with the values at adjacent stations.

At Malin Head and Belmullet the observations are insufficient in point of duration to obtain proper averages.



TABLE II. — SHOWING FOR THE TELEGRAPHIC REPORTING STATIONS THE MEAN VALUES C  
MONTH AND FOR THE WHOLE YEAR, DERIVED FROM OBSERVATIONS

STATIONS.	JANUARY.		FEBRUARY.		MARCH.		APRIL.		MAY.		JUNE.		JULY.
	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Wet.
Sumburgh Head - - - - -	39.7	38.4	38.5	37.4	38.3	36.9	41.7	40.2	46.1	44.0	50.3	48.0	51.1
Stornoway - - - - -	39.5	38.4	39.1	38.1	39.1	38.1	43.8	42.3	48.6	46.4	53.3	51.1	55.5
Wick - - - - -	38.2	36.8	38.1	36.7	39.0	37.2	43.1	41.2	49.1	45.6	53.3	50.7	55.8
Nairn - - - - -	37.2	35.6	37.1	35.4	38.0	36.2	42.7	40.4	48.6	45.4	54.3	50.1	56.7
Aberdeen - - - - -	37.3	35.6	37.3	35.7	38.5	36.5	43.2	40.7	48.9	45.4	54.8	50.8	57.5
Leith - - - - -	38.6	37.2	38.6	37.1	39.5	37.7	44.1	41.7	50.1	46.7	55.9	52.3	58.4
Shields - - - - -	38.2	36.9	38.6	37.3	39.4	37.8	43.5	41.4	49.0	46.0	54.8	51.7	58.3
Spurn Head - - - - -	37.7	36.7	38.4	37.6	39.7	38.4	44.0	42.3	49.3	47.2	55.3	52.8	59.5
York - - - - -	36.7	35.7	37.5	36.4	38.5	37.0	43.8	41.6	49.8	46.7	56.2	52.7	59.2
Loughborough - - - - -	36.4	35.4	37.5	36.4	39.0	37.3	44.4	42.1	51.1	47.7	57.8	53.2	61.4
Ardrossan - - - - -	40.0	38.8	39.4	38.2	40.1	38.5	44.4	42.1	49.5	46.7	55.1	52.1	57.3
Mullaghmore - - - - -	41.6	40.4	42.0	40.3	41.9	40.2	45.3	43.0	50.2	47.4	54.9	52.0	57.2
Donaghadee - - - - -	40.0	39.2	40.3	39.3	40.8	39.5	44.6	42.9	49.6	47.5	55.0	52.8	57.4
Liverpool - - - - -	38.6	37.0	38.9	37.3	40.3	38.2	45.0	42.1	50.8	46.9	56.7	52.7	59.4
Holyhead - - - - -	41.7	40.3	41.5	40.1	42.0	40.5	45.8	43.8	50.5	48.0	55.7	53.2	58.1
Parsonstown - - - - -	38.9	37.8	39.4	38.1	40.4	38.8	45.0	42.5	51.0	47.8	56.0	52.1	58.1
Valencia - - - - -	44.5	43.3	44.6	42.9	44.9	42.8	48.2	45.6	52.8	49.7	57.2	54.1	58.9
Roche's Point - - - - -	43.2	41.9	43.1	41.6	43.3	41.5	46.8	44.5	51.7	48.8	56.8	53.1	58.8
Pembroke - - - - -	42.7	41.3	42.1	40.9	42.1	40.3	45.2	43.4	49.9	47.7	55.2	53.1	58.0
Scilly - - - - -	46.4	44.9	46.0	44.4	46.0	44.2	48.6	46.6	52.7	50.3	57.3	55.1	60.2
Prawle Point - - - - -	42.0	41.0	41.5	40.5	42.6	41.2	46.2	44.6	51.4	49.4	56.9	54.1	59.6
Jersey - - - - -	41.8	40.4	42.3	41.0	44.0	42.0	48.5	45.9	53.6	50.5	58.6	55.1	62.0
Hurst Castle - - - - -	40.3	39.5	40.3	39.3	41.0	40.1	45.5	44.2	51.6	49.9	57.7	55.1	61.1
Dover - - - - -	39.2	38.1	39.2	38.1	40.7	39.2	46.3	44.0	52.5	49.3	58.2	54.1	61.9
London - - - - -	37.6	36.6	38.6	37.4	40.1	38.2	46.1	43.2	52.5	48.5	58.9	54.1	62.0
Oxford - - - - -	37.1	36.1	37.9	36.8	38.9	37.4	44.4	42.1	50.6	47.5	56.8	53.1	60.0
Cambridge - - - - -	36.2	35.4	37.3	36.2	38.9	37.5	45.2	43.0	51.7	48.5	58.1	54.1	61.3
Yarmouth - - - - -	37.5	36.7	38.2	37.3	40.2	38.6	44.7	43.0	50.6	48.1	56.9	54.1	60.9

NOTE — When the records available have not extended over the whole of the period 1871 to 1890, the following rules have been adopted:

- (1) Where the observations available have not covered a period of eleven years or more they have been rejected.
- (2) When the observations have covered a period of eleven years or more the means have been used to their full extent.

At Malin Head and Belmullet the observations are not sufficient in point of time to be included in the above.



## VALUES OF THE DRY BULB AND WET BULB TEMPERATURES FOR EACH

OBSERVATIONS MADE AT 8 A.M. DAILY DURING THE 20 YEARS 1871-90.

STATION.	JULY.		AUGUST.		SEPTEMBER.		OCTOBER.		NOVEMBER.		DECEMBER.		ANNUALS.		LIMITS OF YEARS.	NUMBER OF YEARS.
	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.		
1	51.5	53.4	51.7	50.8	49.1	46.0	44.3	42.0	40.3	39.6	38.1	45.0	43.4	1871—1890	20	
5	53.6	54.9	53.2	51.4	50.1	45.6	44.5	41.7	40.7	39.4	38.5	46.0	44.6	1873—1890	18	
8	53.5	55.2	53.2	51.9	50.0	46.3	44.6	41.4	39.8	38.1	36.8	45.7	43.8	1871—1890	20	
7	53.3	55.5	52.7	51.3	48.9	44.8	42.9	39.8	38.2	37.1	35.6	45.3	42.9	„ „	20	
5	53.9	56.5	53.4	52.1	49.7	45.6	43.6	40.5	38.7	36.9	35.2	45.8	43.3	„ „	20	
4	54.9	57.5	54.4	53.2	50.8	46.7	44.9	41.7	40.0	38.5	37.0	46.9	44.6	„ „	20	
3	55.0	57.2	54.5	53.1	51.0	47.2	45.4	42.1	40.5	38.3	36.9	46.6	44.5	„ „	20	
5	56.8	58.8	56.6	55.5	53.8	48.8	47.3	43.2	41.9	38.8	37.7	47.4	45.8	1880—1890	11	
2	55.9	57.7	55.0	52.9	51.1	45.9	44.5	40.6	39.3	36.4	35.4	46.3	44.3	1873—1890	18	
4	57.6	59.3	56.9	54.0	52.2	45.9	44.6	40.5	39.3	36.3	35.4	47.0	44.9	1871—1890	20	
3	54.6	57.2	54.8	53.5	51.4	47.8	45.8	43.1	41.3	40.0	38.7	47.3	45.3	„ „	20	
2	54.4	57.3	54.5	54.0	51.6	49.1	46.9	45.1	43.1	42.2	39.8	48.4	46.1	1879—1890	12	
4	55.5	56.9	55.3	53.5	52.3	47.8	46.6	43.2	42.0	40.2	39.3	47.4	46.0	1873—1890	18	
4	55.6	58.5	55.2	54.5	51.9	47.8	45.8	42.5	40.7	38.8	37.1	47.7	45.0	1871—1890	20	
1	55.8	58.4	56.2	55.7	53.5	50.3	48.3	45.8	44.0	42.8	41.1	49.0	47.1	„ „	20	
1	54.8	57.3	55.2	53.0	51.1	46.2	44.5	41.9	40.2	37.8	36.6	47.1	45.0	1873—1890	18	
9	56.4	59.3	56.9	56.5	54.2	51.4	49.2	47.4	45.5	44.6	42.4	50.9	48.6	1871—1890	20	
8	55.9	58.9	56.3	55.5	53.4	50.2	48.3	46.1	44.5	42.9	41.5	49.8	47.7	„ „	20	
0	56.0	58.6	56.5	53.1	53.9	51.2	49.2	46.9	45.1	43.6	42.2	49.3	47.5	„ „	20	
2	58.1	60.9	58.8	58.4	56.3	53.7	51.6	50.0	48.0	47.0	45.1	52.3	50.3	„ „	20	
6	57.3	60.1	57.9	57.0	55.2	51.2	49.6	46.2	44.7	42.5	41.1	49.8	48.1	1879—1890	12	
0	58.9	62.8	59.6	59.9	57.0	53.3	50.7	47.7	45.8	43.1	41.4	51.5	49.1	1871—1890	20	
1	58.8	61.0	58.9	57.1	55.7	50.8	49.2	44.9	44.0	40.6	39.8	49.3	47.9	1874—1890	17	
9	58.4	62.0	58.6	57.7	55.2	50.2	48.2	44.3	42.8	39.8	38.6	49.3	47.1	1871—1890	20	
0	57.8	60.9	57.3	55.8	53.5	47.5	45.9	42.2	40.8	37.8	36.7	48.3	45.9	„ „	20	
0	56.6	58.8	56.0	54.0	52.1	46.2	44.9	41.2	40.0	37.0	35.9	46.9	44.9	„ „	20	
3	57.7	60.0	57.1	54.6	53.0	46.4	45.3	40.7	39.9	36.2	35.5	47.2	45.3	1873—1890	18	
9	57.8	60.5	57.6	56.3	54.4	49.0	47.6	43.1	42.0	37.9	37.0	48.0	46.2	1871—1890	20	

Following rules have been observed for purposes of interpolation:—

they are rejected.

have been reduced to their approximate values for the whole period by comparison with the values at adjacent and similarly exposed Stations.

Stations deficient in point of duration to obtain proper averages.



TABLE III.—SHOWING FOR THE TELEGRAPHIC REPORTING STATIONS THE MEAN VALUES OF THE DAILY  
FOR EACH MONTH AND FOR THE WHOLE YEAR—DERIVED FROM

STATIONS.	JANUARY.			FEBRUARY.			MARCH.			APRIL.			MAY.			JUNE.		
	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.
Sumburgh Head - - -	42.9	35.6	39.3	42.4	34.5	38.5	42.6	33.9	38.3	46.0	36.7	41.4	50.3	40.2	45.3	54.6	45.0	49.8
Stornoway - - -	43.3	34.5	38.9	43.5	34.6	39.1	44.9	34.5	39.7	48.9	37.2	43.1	53.3	41.1	47.2	58.0	45.9	52.0
Wick - - -	42.4	33.3	37.9	43.1	33.2	38.2	44.8	34.0	39.4	48.9	36.9	42.9	53.9	40.6	47.3	58.9	45.5	52.2
Nairn - - -	42.2	32.9	37.6	43.4	33.4	38.4	45.6	33.9	39.8	50.9	37.3	44.1	56.3	42.2	49.3	62.2	47.8	55.0
Aberdeen - - -	42.4	33.2	37.8	43.2	33.8	38.5	45.4	34.4	39.9	49.3	38.0	43.7	55.0	41.9	48.5	61.2	47.2	54.2
Leith - - -	44.4	33.7	39.1	45.7	34.3	40.0	47.9	34.6	41.3	52.0	37.9	45.0	57.8	42.4	50.1	63.9	47.9	55.9
Shields - - -	43.0	34.2	38.6	43.8	35.1	39.5	45.9	35.2	40.6	49.0	38.6	43.8	54.4	42.9	48.7	60.6	48.7	54.7
Spurn Head - - -	41.7	34.5	38.1	42.3	35.9	39.1	44.7	36.6	40.7	48.4	40.3	44.4	54.3	45.1	49.7	60.4	51.4	55.9
York - - -	42.7	32.5	37.6	44.6	33.9	39.3	48.1	34.0	41.1	53.5	37.7	45.6	59.6	42.2	50.9	66.1	48.4	57.3
Loughborough - - -	43.0	32.3	37.7	45.3	33.9	39.6	49.5	34.2	41.9	55.1	38.1	46.6	61.7	42.6	52.2	68.6	49.0	58.8
Ardrossan - - -	44.2	30.3	40.3	44.6	36.3	40.5	46.3	36.3	41.3	51.5	39.5	45.5	56.5	43.9	50.2	62.0	49.5	55.8
Mullaghmore - - -	46.1	38.0	42.1	46.6	38.6	42.6	47.9	38.4	43.2	51.9	42.3	47.1	56.7	46.3	51.5	61.1	51.4	56.2
Donaghadee - - -	44.4	36.1	40.3	45.5	36.9	41.2	47.2	37.1	42.2	51.0	40.0	45.5	56.0	44.2	50.1	61.2	49.3	55.1
Liverpool - - -	43.5	35.2	39.4	44.5	36.2	40.4	47.0	36.8	41.9	52.6	40.4	46.5	58.0	45.0	51.5	63.8	50.9	57.4
Holyhead - - -	45.6	38.7	42.2	45.5	38.7	42.1	47.2	38.9	43.1	51.4	42.0	46.7	56.2	46.2	51.2	61.6	51.5	56.6
Parsonstown - - -	45.6	34.2	39.9	46.9	35.6	41.3	49.8	35.0	42.4	54.6	38.0	46.3	59.5	42.7	51.1	64.5	48.5	56.2
Valencia - - -	49.5	40.4	45.0	49.7	40.7	45.2	51.1	40.2	45.7	53.9	42.8	48.4	58.1	46.3	52.2	62.2	51.1	56.7
Roche's Point - - -	47.7	39.5	43.6	48.4	39.6	44.0	49.7	39.6	44.7	53.7	42.1	47.9	58.9	46.2	52.6	64.5	51.1	57.8
Pembroke - - -	45.5	39.6	42.6	45.5	39.4	42.5	46.6	39.1	42.9	50.4	41.9	46.2	55.0	45.9	50.5	60.3	51.5	55.9
Seilly - - -	48.8	42.9	45.9	48.9	42.8	45.9	49.5	42.5	46.0	52.1	44.7	48.4	56.3	48.2	52.3	61.3	53.0	57.1
Prawle Point - - -	46.2	37.6	41.9	46.8	38.1	42.5	48.1	37.7	42.9	51.9	40.7	46.3	56.6	45.3	51.0	61.5	50.5	56.0
Jersey - - -	45.8	38.3	42.1	46.9	39.3	43.1	49.5	39.9	44.7	54.2	43.5	48.9	59.4	47.2	53.3	64.6	52.5	58.0
Hurst Castle - - -	45.0	36.3	40.7	45.7	36.7	41.2	47.8	37.2	42.5	52.1	41.0	46.6	58.6	45.7	52.2	64.2	51.9	58.0
Dover - - -	43.5	35.3	39.7	44.4	36.1	40.3	46.4	36.9	41.7	51.1	41.5	46.3	57.0	46.7	51.9	63.0	52.5	57.1
London - - -	44.1	33.8	39.0	45.8	35.1	40.5	50.0	35.4	42.7	56.0	39.7	47.9	62.3	44.4	53.4	69.1	50.6	59.9
Oxford - - -	43.1	33.6	38.4	45.0	34.9	40.0	49.0	34.9	42.0	54.0	38.9	46.5	60.6	43.4	52.0	66.9	49.5	58.0
Cambridge - - -	43.3	31.7	37.5	45.5	32.8	39.2	50.2	33.0	41.6	55.8	37.3	46.6	62.0	42.0	52.0	68.6	48.5	58.0
Yarmouth - - -	41.5	33.8	37.7	42.6	34.5	38.6	45.2	34.9	40.1	49.1	39.9	44.5	55.4	44.9	50.2	62.0	51.1	56.0

NOTE:—When the records available have not extended over the whole of the period, 1871-90, the

- (1) Where the observations available have not covered a period of eleven years or more, they have
- (2) When the observations have covered a period of eleven years or more, the means have been

At Malin Head and Belmullet the observations



MAXIMUM AND MINIMUM TEMPERATURES, AND OF THE MAXIMUM AND MINIMUM COMBINED,  
FROM OBSERVATIONS EXTENDING OVER THE 20 YEARS 1871—1890.

JULY.			AUGUST.			SEPTEMBER.			OCTOBER.			NOVEMBER.			DECEMBER.			ANNUALS.			Limits of Years.	Number of Years.
Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.		
57.4	48.0	52.7	57.7	48.4	53.1	55.0	46.1	50.6	49.8	41.6	45.7	45.6	37.8	41.7	42.6	35.2	38.9	48.9	40.3	44.6	1871—90	20
60.2	48.9	54.6	59.8	48.8	54.3	56.3	45.8	51.1	51.0	40.5	45.8	46.2	37.0	41.6	43.1	34.2	38.7	50.7	40.3	45.5	" "	20
61.8	48.7	55.3	61.1	48.3	54.7	57.7	45.5	51.6	51.7	40.5	46.1	46.1	36.1	41.1	42.2	32.7	37.5	51.1	39.6	45.4	1872—90	19
64.3	50.9	57.6	63.4	50.3	56.9	59.2	46.5	52.9	51.9	40.8	46.4	45.3	35.7	40.5	41.9	32.8	37.4	52.2	40.4	46.3	1871—90	20
63.9	50.6	57.3	63.1	50.1	56.6	59.2	46.7	53.0	52.5	41.4	47.0	46.2	36.5	41.4	41.9	32.6	37.3	51.9	40.5	46.3	" "	20
66.7	51.2	59.0	65.7	51.3	58.5	61.9	47.5	54.7	54.7	41.8	48.3	48.1	37.0	42.6	44.0	33.7	38.9	54.4	41.1	47.8	" "	20
64.1	52.2	58.2	63.6	51.9	57.8	59.8	48.8	54.3	53.2	42.7	48.0	47.3	37.9	42.6	42.9	33.9	38.4	52.3	41.8	47.1	" "	20
65.1	55.2	60.2	64.3	55.0	59.7	60.4	52.7	56.6	53.3	45.7	49.5	46.8	40.2	43.5	42.4	35.3	38.9	52.0	44.0	48.0	1880—90	11
68.7	51.9	60.3	67.9	51.3	59.6	62.9	47.7	55.3	54.5	41.4	48.0	47.5	36.4	42.0	42.3	32.3	37.3	54.9	40.8	47.9	1871—90	20
71.5	52.6	62.1	70.4	51.8	61.1	65.0	47.8	56.4	55.7	41.1	48.4	48.0	36.6	42.3	42.7	32.2	37.5	56.4	41.0	48.7	" "	20
63.5	52.8	58.2	63.6	52.8	58.2	59.6	49.4	54.5	53.7	43.7	48.7	47.8	39.1	43.5	44.5	35.9	40.2	53.2	43.0	48.1	1872—90	19
62.9	54.0	58.5	63.3	53.8	58.6	60.2	50.9	55.6	54.2	45.7	50.0	49.6	41.2	45.4	46.5	37.8	42.2	53.9	44.9	49.4	1879—90	12
63.2	51.8	57.5	62.2	52.2	57.2	59.6	49.2	54.4	53.6	43.6	48.6	48.3	39.2	43.8	45.8	36.2	41.0	53.2	43.0	48.1	1873—90	18
65.9	54.2	60.0	65.8	54.1	60.1	61.2	50.8	56.0	53.8	44.7	49.3	47.8	39.6	43.7	43.5	35.6	39.6	54.0	43.6	48.8	1871—90	20
63.8	54.3	59.1	64.1	54.8	59.5	60.7	52.6	56.7	54.7	47.3	51.0	49.7	42.9	46.3	46.4	39.1	42.8	53.9	45.6	49.8	1872—90	19
66.4	51.5	59.0	66.0	51.4	58.7	61.5	47.4	54.5	54.8	41.0	47.9	49.1	37.1	43.1	44.7	33.1	38.9	55.3	41.3	48.3	" "	19
64.0	53.6	58.8	64.7	54.1	59.4	61.8	51.5	56.7	56.6	46.8	51.7	52.3	43.0	47.7	49.7	40.0	44.9	56.1	45.9	51.0	1871—90	20
66.1	53.2	59.7	66.1	53.8	60.0	61.7	51.0	56.4	56.0	46.1	51.1	51.1	42.0	46.6	47.9	38.9	43.4	56.0	45.3	50.7	1872—90	19
62.5	54.8	58.7	63.2	55.6	59.4	60.1	53.0	56.6	54.9	48.0	51.5	50.1	43.8	47.0	46.8	40.3	43.6	53.4	46.1	49.8	" "	19
64.4	56.2	60.3	64.9	57.0	61.0	61.8	54.7	58.3	56.6	50.2	53.4	52.4	46.7	49.6	49.5	43.4	46.5	55.5	48.5	52.1	1871—90	20
64.5	53.7	59.1	65.3	54.4	59.9	62.4	52.2	57.3	56.7	46.2	51.5	51.1	41.9	46.5	47.0	38.2	42.6	54.8	44.7	49.8	1879—90	12
68.3	53.2	62.3	68.8	57.1	63.0	65.4	54.8	60.1	58.2	48.6	53.4	51.9	44.1	48.0	47.3	39.3	43.3	56.7	46.7	51.7	1871—90	20
67.8	55.5	61.7	68.1	55.9	62.0	64.3	52.1	58.2	57.1	45.8	51.5	50.5	40.6	45.6	45.6	36.3	41.0	55.6	44.6	50.1	1874—90	17
66.8	56.3	61.6	67.2	56.7	62.0	63.4	52.9	58.2	56.1	46.2	51.2	49.3	40.6	45.0	44.3	35.9	40.1	54.4	44.8	49.6	1872—90	19
72.4	54.0	63.2	71.8	53.5	62.7	66.4	49.6	58.0	56.7	42.7	49.7	49.3	38.0	43.7	44.0	33.9	39.0	57.3	42.6	50.0	1871—90	20
69.6	53.4	61.5	69.3	53.0	61.2	64.0	48.9	56.5	55.5	42.2	48.9	48.2	37.6	42.9	42.9	33.5	38.2	55.7	42.0	48.9	" "	20
71.9	52.2	62.1	71.3	51.8	61.6	65.6	48.1	56.9	56.5	41.0	48.8	48.6	35.8	42.2	42.8	31.6	37.2	56.8	40.5	48.7	" "	20
66.6	54.9	60.8	66.3	54.8	60.6	62.1	51.4	56.8	54.3	44.6	49.5	47.5	39.0	43.3	41.9	33.7	37.8	52.9	43.1	48.0	1872—90	19

following rules have been observed for purposes of interpolation:—

been rejected.

reduced to their approximate value for the whole period by comparison with the values at adjacent and similarly exposed Stations.

are insufficient in point of duration to obtain proper averages.



TABLE IV.—SHOWING FOR THE TELEGRAPHIC REPORTING STATIONS THE MEAN RAINFALL FOR EACH MONTH  
AND FOR THE WHOLE YEAR—DERIVED FROM OBSERVATIONS EXTENDING OVER THE 25 YEARS 1866 TO 1890.

STATIONS.	JAN.	FEB.	MAR.	APRIL.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL.	LIMITS OF YEARS.	NO. OF YEARS.
	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.		
Sumburgh Head - - -	3.72	3.19	2.79	2.07	1.72	1.98	2.27	3.16	3.32	4.27	4.16	4.25	36.90	1871—1890	20
Stornoway - - -	5.30	3.86	3.79	2.65	2.61	2.85	3.02	3.67	4.10	5.04	4.70	5.63	47.22	1855—1890	36
Wick - - -	2.05	2.04	2.02	1.68	1.69	1.74	2.34	2.57	2.53	3.02	2.93	3.10	27.71	1866—1890	25
Nairn - - -	1.99	1.48	1.68	1.26	1.61	1.70	2.59	2.75	2.58	2.38	2.29	1.95	24.26	1866—1890	25
Aberdeen - - -	2.31	2.35	2.33	2.16	1.99	1.77	2.78	3.03	2.97	2.87	3.14	3.24	30.94	" "	25
Leith - - -	1.93	1.45	1.41	1.57	1.67	1.80	2.85	2.56	2.34	1.97	2.20	1.86	23.61	" "	25
Shields - - -	1.75	1.50	1.75	1.80	1.69	1.71	2.66	2.85	2.50	2.48	2.61	2.57	25.87	" "	25
Spurn Head - - -	1.35	1.36	1.22	1.45	1.57	1.54	1.74	1.86	2.02	2.27	2.40	2.14	20.92	1880—1890	11
York - - -	1.87	1.70	1.73	1.75	1.85	2.17	2.70	2.54	2.70	2.60	2.19	2.28	26.08	1866—1890	25
Loughborough - - -	2.04	1.78	1.64	1.78	2.09	2.22	2.34	2.53	2.76	2.80	2.24	2.24	26.46	1872—1890	19
Ardrossan - - -	4.25	3.04	2.44	2.14	2.34	2.49	2.91	3.78	3.67	3.87	3.88	3.73	33.54	1866—1890	25
Mullaghmore - - -	4.36	3.09	2.87	2.05	2.42	2.79	3.72	3.65	4.95	4.75	4.48	4.51	43.64	1876—1890	15
Donaghadee - - -	2.98	2.42	2.05	1.92	2.26	1.92	2.82	3.04	3.04	3.14	3.20	2.84	31.63	1873—1890	18
Liverpool - - -	2.22	1.69	1.72	1.55	1.84	1.89	2.96	2.83	3.30	3.46	2.96	2.59	29.01	1866—1890	25
Holyhead - - -	3.38	2.60	2.27	1.90	1.90	1.98	2.40	2.77	3.23	4.31	3.88	3.82	34.44	" "	25
Parsonstown - - -	3.12	2.20	2.33	2.04	2.24	2.39	2.96	3.38	3.16	3.16	2.83	3.04	32.85	" "	25
Valencia - - -	6.69	4.95	4.20	3.83	3.20	3.27	3.90	4.70	4.53	5.88	5.42	5.99	56.56	" "	25
Roche's Point - - -	5.50	4.43	3.71	3.24	3.14	3.13	3.29	3.62	4.08	4.09	4.62	4.95	47.80	1868—1890	23
Pembroke - - -	3.75	2.82	2.40	1.94	2.03	1.94	2.54	2.77	3.53	3.96	4.05	3.99	35.76	1871—1890	20
Scilly - - -	3.73	2.71	2.40	2.27	1.73	1.84	2.46	2.39	3.41	3.70	3.72	4.02	34.38	" "	20
Prawle Point - - -	3.09	2.02	1.95	2.07	1.56	1.60	2.24	2.14	2.46	3.60	3.20	3.76	29.69	1879—1890	12
Jersey - - -	3.21	2.55	2.33	2.08	1.87	1.91	2.40	2.24	3.05	4.45	4.30	3.82	34.21	1866—1890	25
Hurst Castle - - -	2.94	2.25	1.83	1.83	1.77	1.92	2.20	2.26	3.01	3.26	3.01	2.78	29.06	" "	25
Dover - - -	2.58	1.95	1.83	1.77	1.79	1.59	1.95	2.04	2.64	3.22	3.48	3.00	27.84	" "	25
London - - -	2.12	1.73	1.49	1.84	1.86	2.11	2.38	2.21	2.35	2.57	2.23	2.10	24.99	" "	25
Oxford - - -	2.26	1.92	1.59	1.78	1.95	2.21	2.58	2.24	2.66	2.56	2.31	2.10	26.16	" "	25
Cambridge - - -	1.54	1.46	1.40	1.69	1.90	2.23	2.42	2.19	2.26	2.27	2.01	1.88	23.25	" "	25
Yarmouth - - -	1.95	1.82	1.82	1.70	1.86	1.88	2.85	2.15	2.91	2.92	3.06	2.66	27.58	" "	25

NOTE.—When the records available have not extended over the whole of the period 1866-1890 the following rules have been observed for purposes of interpolation:—

- (1) Where the observations available have not covered a period of eleven years, or more, they have been rejected.
- (2) When the observations have covered a period of eleven years, or more, the means have been reduced to their approximate values for the whole period by comparison with the values at adjacent and similarly exposed stations.

At Malin Head and Belmullet the observations are insufficient in point of duration to obtain proper averages.



# DAILY WEATHER REPORT.

for Thursday, 1<sup>st</sup> October, 1891.  
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 4.)	SHADE TEMP.		Amount of Rainfall.	
	Reading at 32° F. and Sea Level.	Dry.	Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...	29.42	50	SSW	2	b	29.62	+ 26	47	43	0	WNW	2	b	*	50	41	.
	Hernösand ...	29.65	53	W	2	b	29.78	+ 30	41	40	- 15	Z	0	bc	*	68	36	.
	Stockholm ...	29.82	56	S	2	b	29.89	+ 12	52	51	- 3	Z	0	b	*	63	52	.
	Wisby ...	29.90	56	SSW	4	b	29.95	+ 06	54	54	- 2	S	4	b	*	61	52	.
	Bodö ...	29.31	46	SW	9	τ	29.61	+ 50	41	40	- 9	E	2	b	1	50	41	0.12
	Christiansund	29.58	51	S	3	τ	29.49	+ 09	53	50	+ 1	S	2	0	5	54	50	0.16
	Skudesnaes ...	29.69	56	S	8	0	29.62	- 04	57	54	+ 2	SSE	8	0	6	52	55	0.08
	Christiania Fjord (Færder)	29.78	56	WSW	3	b	29.86	+ 17	55	53	- 1	SSE	3	bc	3	57	54	.
	Skagen (The Scaw)	29.82	55	WSW	2	b	29.82	+ 10	53	53	- 2	SSW	3	m	1	57	46	0.08
	Fanö ...	29.88	54	SW	3	b	29.82	- 00	57	56	- 2	SSW	4	b	*	61	50	.
BRITISH ISLANDS.	Sumburgh Head	29.32	51	S	3	τ	29.32	- 12	50	49	0	SSE	1	0	4	54	47	0.10
	Stornoway ...	29.23	50	SW	4	0	29.31	+ 01	48	47	- 4	SW	4	bc	4	54	44	0.20
	Wick ...	29.32	52	SW	3	c	29.35	- 10	49	48	- 3	SW	3	c	1	58	46	.
	Nairn ...	29.44	52	SW	1	bc	29.36	- 05	49	46	- 2	Z	0	b	1	60	44	0.03
	Aberdeen ...	29.44	52	W	1	bc	29.42	- 15	50	47	- 1	SW	2	c	3	56	47	0.10
	Leith ...	29.46	55	WSW	3	0	29.44	- 13	51	48	- 3	SW	1	m	*	62	48	0.05
	Shields ...	29.56	59	S	4	c	29.48	- 20	50	48	- 2	WNW	1	τ	2	62	47	0.04
	Spurn Head ...	29.72	58	S	4	b	29.53	- 28	58	56	+ 3	S	5	bc	4	64	54	.
	York ...	29.67	59	S	3	bc	29.48	- 30	55	53	+ 6	SSE	2	τ	*	63	46	0.02
	Loughborough	29.73	58	SSW	4	c	29.49	- 34	57	54	+ 6	S	5	cq	*	67	51	.
BRITISH ISLANDS.	Ardrossan ...	29.44	57	S	4	0	29.44	- 04	51	49	- 4	WSW	2	c	2	57	50	0.13
	Malin Head ...	29.37	52	SSW	5	op	29.39	+ 14	48	46	- 4	SSW	4	cq	2	56	45	0.06
	Mullaghmore ...	29.41	52	SSW	5	og	29.44	+ 10	49	46	- 4	SW	4	bc	3	57	45	0.01
	Belmullet ...	29.39	51	SSW	3	0	29.44	+ 13	51	47	- 3	W.	3	b	*	56	47	0.08
	Donaghadee ...	29.46	54	SSW	3	c	29.47	- 05	47	45	- 7	WNW	3	c	1	60	44	0.08
	Liverpool (Bidston)	29.62	58	S	4	c	29.51	- 23	49	49	- 4	W	2	τ	1	61	49	0.36
	Holyhead ...	29.57	56	SW	6	ogmpq	29.49	- 19	49	49	- 8	Z	0	ogm	0	60	49	0.76
	Parsonstown ...	29.50	53	Z	0	0	29.52	+ 02	45	44	- 9	Z	0	bc	*	59	41	0.08
	Valencia ...	29.50	54	SW	5	om	29.56	+ 03	50	47	- 6	WNW	1	bcqv	2	58	45	0.01
	Roche's Point...	29.58	52	WSW	5	τ	29.56	- 04	47	45	- 9	W	1	b	3	57	46	0.30
BRITISH ISLANDS.	Pembroke (St. Ann's Hd.)	29.62	58	SSW	7	0	29.53	- 22	53	51	- 5	SW	4	ogp	5	60	50	0.46
	Scilly ...	29.70	59	SSW	6	bc	29.56	- 29	58	57	0	SW	2	τ	4	64	55	0.72
	Prawle Point ...	29.80	57	SSW	5	c	29.58	- 34	53	53	- 4	SSW	4	τ	3	60	53	0.12
	Jersey (St. Aubin's)	29.87	63	SSE	2	cq	29.69	- 29	63	58	+ 4	S.W.	5	bcw	4	66	58	.
	Hurst Castle ...	29.86	62	SW	4	og	29.62	- 31	61	58	+ 3	SW	6	bc	4	65	57	0.17
	Dungeness ...	29.91	61	WSW	4	bc	29.69	- 23	61	59	+ 1	SW	5	c	4	66	59	.
	London ...	29.84	59	SSW	2	c	29.64	- 28	60	58	+ 5	SW	2	c	*	66	54	0.02
	Oxford ...	29.78	56	SW	3	0	29.57	- 35	57	55	+ 6	S	5	og	*	63	51	0.04
	Cambridge ...	29.82	56	S	2	b	29.61	- 30	60	59	+ 7	S	2	0	*	66	52	0.11
	Yarmouth ...	29.83	61	SW	2	b	29.65	- 23	60	58	+ 3	SSW	3	c	3	64	55	.
GERMANY & HOLLAND.	Cuxhaven ...	29.96	57	S	2	b	29.91	- 02	55	54	+ 2	SSE	3	m	*	65	53	.
	Berlin ...	30.04	62	Z	0	0	30.02	- 02	53	52	0	SE	2	b	*	70	52	.
	Wiesbaden ...	*	*	*	*	*	29.98	- 12	53	51	+ 5	Z	0	b	*	66	48	.
	Munich ...	30.13	55	Z	0	b	30.08	- 11	50	49	- 1	SE	2	b	*	68	45	.
	The Helder ...	29.91	54	S	1	b	29.76	- 15	59	58	0	S	2	0	2	63	54	.
FRANCE AND BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	29.77	- 22	64	59	+ 5	S	4	b	*	72	58	.
	Cape Gris Nez	29.91	60	SSW	4	bc	29.72	- 20	61	60	0	SSW	4	0	4	64	57	.
	Paris ...	29.95	64	SSW	1	b	29.85	- 18	59	58	+ 6	SSE	2	0	*	75	53	.
	Brest ...	29.88	60	SW	3	0	?	?	59	58	0	SW	5	τ	4	66	57	0.08
	Lorient ...	29.90	62	SSW	3	0	29.73	- 26	61	57	+ 1	SW	5	bc	5	66	55	.
	Rochefort ...	29.93	66	SSW	3	0	29.84	- 19	64	64	+ 2	SW	3	0	2	68	61	.
FRANCE AND BELGIUM.	Belfort ...	29.98	59	W	1	bc	29.97	- 1	59	50	+ 6	W	1	b	*	73	43	.
	Lyons ...	30.02	65	SE	1	b	29.98	- 16	58	54	+ 4	SW	1	b	*	75	52	.
	Nice ...	30.08	63	Z	0	b	30.06	- 07	64	54	+ 4	Z	0	b	0	75	57	.
	Perpignan ...	30.03	63	SE	1	bc	29.97	- 15	57	57	- 2	W	1	b	*	73	54	.
	Biarritz ...	29.86	74	E	4	b	29.83	- 16	64	64	- 2	ESE	2	bc	5	79	63	.
	PENINSULA.	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lisbon ...		29.97	69	Z	0	b	30.00	- 04	59	57	0	WNW	3	b	4	75	57	.



# WEATHER CHARTS

for 8 a.m. on Thursday, 1<sup>st</sup> October, 1891.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP

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

Changes since previous morning are stated in words.

**WIND**—Arrows show the prevalent winds. They fly with the wind and

their barbs and feathers refer to force thus—

→ forces above 10; → forces 8 to 10;

→ forces 5 to 7; → forces 1 to 4.

☉ dead calm.

**SEA DISTURBANCE**—Where considerable, is shown thus:

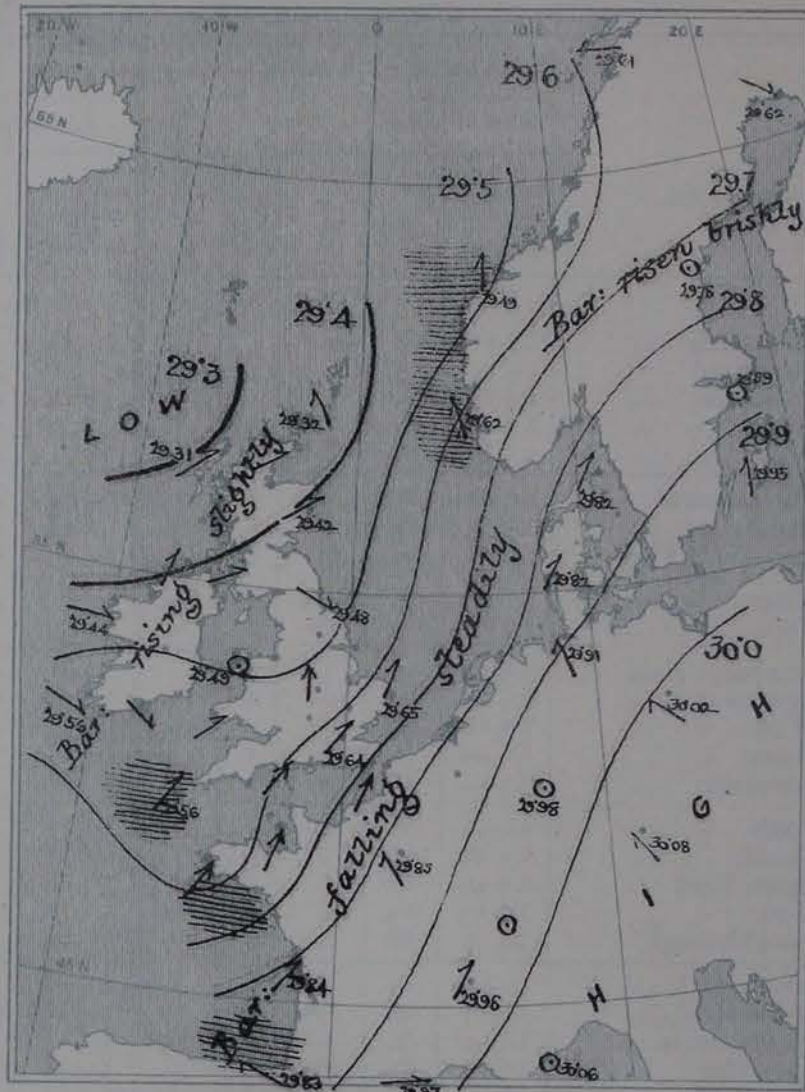
☼ = Rough. ☼ = High.

## MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of October

during the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.726
Stornoway	29.756
Wick	29.763
Nairn	29.779
Aberdeen	29.793
Leith	29.822
Shields	29.846
Spurn Head	29.867
York	29.882
Loughborough	29.904
Ardrossan	29.831
Mullaghmore	29.845
Donaghadee	29.850
Holyhead	29.872
Liverpool	29.879
Parsonstown	29.897
Valencia	29.896
Roche's Point	29.892
Pembroke	29.888
Scilly	29.910
Prawle Point	29.931
Jersey	29.925
Hurst Castle	29.922
Dover	29.916
LONDON	29.923
Oxford	29.924
Cambridge	29.912
Yarmouth	29.894



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

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

**WEATHER** is shown by Letters of the Beaufort Scale.

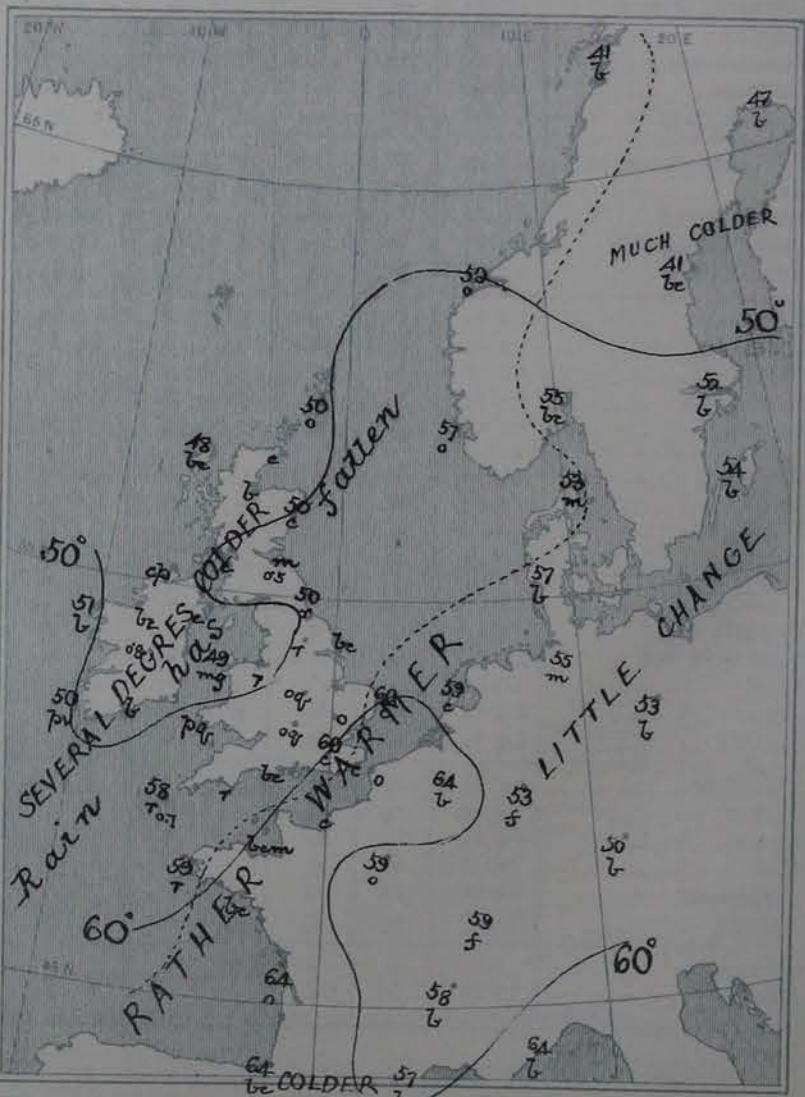
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of October.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	49.8	41.6	46.0	44.3	4.27
Stornoway.....	51.0	40.5	45.6	44.5	5.04
Wick.....	51.7	40.5	46.3	44.6	3.02
Nairn.....	51.9	40.8	44.8	42.9	2.33
Aberdeen.....	52.5	41.4	45.6	43.6	2.87
Leith.....	54.7	41.8	46.7	44.5	1.97
Shields.....	53.2	42.7	47.2	45.4	2.48
Spurn Head.....	53.3	45.7	48.8	47.3	2.27
York.....	54.5	41.4	45.9	44.5	2.60
Loughborough.....	55.7	41.1	46.9	44.6	2.80
Ardrossan.....	53.7	43.7	47.8	45.8	3.87
Mullaghmore.....	54.2	45.7	49.1	46.9	4.75
Donaghadee.....	53.6	43.6	47.8	46.6	3.14
Holyhead.....	54.7	47.3	50.3	48.3	4.31
Liverpool.....	53.8	44.7	47.8	45.8	3.46
Parsonstown.....	54.8	41.0	46.2	44.6	3.16
Valencia.....	56.6	46.8	51.4	49.2	5.88
Roche's Point.....	56.0	46.1	50.2	48.3	4.00
Pembroke.....	54.9	48.0	51.2	49.2	3.96
Scilly.....	56.6	50.2	53.7	51.6	3.70
Prawle Point.....	56.7	46.2	51.2	49.6	3.60
Jersey.....	58.2	48.6	53.3	50.7	4.45
Hurst Castle.....	57.1	45.8	50.8	49.2	3.28
Dover.....	56.1	46.2	50.2	48.2	3.22
LONDON.....	56.7	42.7	47.5	45.9	2.57
Oxford.....	55.5	42.2	46.2	44.9	2.56
Cambridge.....	56.5	41.0	46.4	45.3	2.27
Yarmouth.....	54.3	44.6	49.0	47.6	2.92

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





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.0 in: and upwards over the southeast of France and the eastern and southern parts of Germany.

Lowest, 29.3 and less, in a depression lying to the northward of the Hebrides.

Gradients slight generally. Barometer rising slightly in Ireland and Scotland, and more decidedly in Sweden, but falling elsewhere, most over England.

## TEMPERATURE

Lowest, 41° at Bodo and Hernösand, 45° at Lannastown, and 47° at Haparanda, Önnegård, and Rönneby.

Highest, 64° at Brussels, Rochefort, Bannitz and Nice, 63° at Jersey, and 61° at Hunt Castle, Dungeness, and Cape Fin Rey.

The highest maxima registered over our Islands yesterday were 67° at Loughborough, and 66° at Jersey, Dungeness, Cambridge and in London.

## WIND

Light or moderate from the SW<sup>W</sup> over the northern part of the United Kingdom and from the NW<sup>W</sup> in the south of Ireland.

Moderate to strong from the SE<sup>W</sup> over the east and southeast of England and the eastern shores of the North Sea.

Calm in Sweden; light from SE in Germany; variable in the south of France.

## WEATHER

Rainy over all the southern, western and northern part of England, and dull in the west and north of France, as well as in the west of Norway. Fine in nearly all other part of Western Europe, but foggy at Kierbaden and Relfort.

Since yesterday morning rain has fallen over nearly the whole of our Islands as well as in the west of Norway. Lightning was seen at Christiansund last evening.

## SEA

Moderate to smooth generally but rough off the west of Norway and rather rough at Lamlake.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The shallow depression which has appeared near the mouth of the Bristol Channel will probably move northwards over England, and rainy weather is therefore likely to spread to our eastern and southern stations.

## FORECASTS

For the 24 hours ending at NOON on 2<sup>nd</sup> OCT<sup>r</sup> 1891.

### DISTRICTS.

### FORECASTS.

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

SW<sup>W</sup> winds, light; fair generally, but local showers.

Same as No 5

S<sup>W</sup> winds, fresh, to SW<sup>W</sup> or W<sup>W</sup>, light; changeable, rain at times, becoming colder.

### DISTRICTS.

### FORECASTS.

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

Same as No 0 and 1.

SW<sup>W</sup> to NW<sup>W</sup> winds, light; changeable, showery.

NW<sup>W</sup> and W<sup>W</sup> winds, backing later; fair 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 ...	29.69	58	53	S	6	C	5	Holyhead ...	29.60	56	55	SSW	7	O	6
Sumburgh Head ...	29.38	52	50	S	3	O	4	Valencia ...	29.54	57	53	SW	6	OM	5
Stornoway ...	29.19	53	53	SW	6	C	6	Scilly ...	29.78	63	59	SSW	6	bc	5
Aberdeen ...	29.43	54	52	SSW	5	ogpu	5	Jersey ...	29.95	66	61	S	3	og	3
Shields ...	29.59	60	53	S	4	omqtp	2	Dungeness ...	29.93	64	60	WSW	4	bc	0
Ardrossan ...	29.44	56	54	S	4	O	4	London ...	29.88	65	58	SW	3	bc	*
Mulin Head ...	29.32	54	50	SSW	6	O	4	Yarmouth ...	29.87	64	56	SW	3	b	3
Mullaghmore ...	29.41	56	51	SW	6	ogm	5	Rocheport ...	30.00	66	66	SSE	3	O	*
Belmullet ...	29.40	55	51	WSW	6	O	*								

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

Weather in morning fine and bright as a whole over all but the extreme western and northwestern districts, exceedingly fine over southern Europe and the Mediterranean. Cloudy and showing in the west and north of our Islands and over Finland, rainy at the Scour also, foggy at a few of the French stations. Rain later over almost all parts of the Kingdom and at least, but amounts small except at the Welsh stations.

Temperature changing irregularly. Morning readings touching 70° at some stations in Algeria, at Madrid, Barcelona, Malta and Brindisi, and exceeding 60° at most stations in the south and west of France; varying from 50° to 59° over our Islands, the North Sea and Baltic, lower elsewhere. Lowest (1) 43° at Moscow, 46° at Archangel, 47° at Haparanda; (2) 40° at Hermannstadt, 44° at Kiev, 49° at Lemberg. Rising later to between 60° and 67° at most of the English stations, to between 65° and 70° over Germany, and to between 70° and 75° in the southwest and south of France.

Wind still mainly E<sup>ly</sup> over the Mediterranean, the south of France and the Iberian Peninsula, very variable over central and eastern Europe, mainly S<sup>ly</sup> and SW<sup>ly</sup> in the northwest and north, and blowing very strongly in the western parts of the British Islands and Scandinavia, and somewhat strongly over the Gulf of Finland. Moderating and veering in our Islands.

Barometer highest 30.3 ins. and more to 30.1 ins. in a high pressure area over the south of Russia and extending thence in a ridgelike form across Austria to the south of France and Mediterranean. Lowest about 29.1 ins. in a depression off the northwest of Norway, and below 29.3 ins. in another approaching our northwest coasts. Continuing to fall over France and England later, but inclined to rise in the northwest of Ireland.

### EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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

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

„ Weekly „ „ „ £1 10 0 „



# DAILY WEATHER REPORT.

for *Friday 2<sup>nd</sup> October.* 1891.  
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea.	SHADE TEMP.		Amount of Rainfall.		
				Reading at 32° F. and Sea Level.	Dry.		Dirac.	Force. (0 to 12.)	Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.		Dirac.	Force. (0 to 12.)		Weather.	Max.
SCANDINAVIA.	Haparanda ...	25.64	48	SW	4	0	25.49	-13	50	45	+3	SW	6	0	*	50	43	—	
	Hernösand ...	25.74	50	S	4	6	25.61	-17	51	51	+10	S	4	7	*	55	36	0.04	
	Stockholm ...	25.85	55	SW	4	6	25.80	-05	55	54	+3	S	2	f	*	63	44	—	
	Wisby ...	25.71	54	SE	4	6	25.86	-05	56	54	+2	SE	4	f	*	63	50	—	
	Bodö ...	25.36	49	E	2	0	25.38	-26	46	46	+5	SW	6	C	3	?	41	0.55	
	Christiansund	25.38	57	W	4	7	25.56	+07	50	48	-3	S	1	0	3	53	48	0.24	
	Skudesnaes ...	25.49	55	SE	8	0	25.49	-13	51	49	-6	NW	5	7	4	57	50	0.79	
	Christiania Fjord (Færdar)	25.64	58	SE	5	0	25.52	-34	57	57	+2	SE	6	7	3	?	?	0.59	
	Skagen (The Scaw)	25.54	58	SE	6	7	25.52	-30	58	58	+5	S	5	C	3	61	2	0.35	
	Fanö ...	25.55	62	S	4	6	25.62	-20	58	56	+1	W	4	be	*	68	57	—	
BRITISH ISLANDS.	Sumburgh Head	25.44	48	2	0	6	25.61	+25	48	47	-2	N	1	6	2	54	41	0.01	
	Stornoway ...	25.32	50	SW	4	0	25.67	+36	49	48	+1	W	2	6	3	54	41	0.05	
	Wick ...	25.43	50	W	1	6	25.65	+30	46	46	-3	NW	1	f	0	59	34	—	
	Nairn ...	25.44	48	SW	1	6	25.65	+29	45	42	-4	2	0	6	1	58	30	—	
	Aberdeen ...	25.40	50	SW	2	6	25.66	+24	41	39	-9	WNW	3	be	2	54	34	—	
	Leith ...	25.47	52	W	1	6	25.62	+18	50	48	-1	N	1	0	*	59	48	0.02	
	Shields ...	25.51	52	W	1	C	25.62	+14	46	45	-4	SW	2	C	2	54	41	0.09	
	Spurn Head ...	25.53	53	NW	2	6	25.70	+20	49	47	-9	SW	4	be	4	61	45	0.22	
	York ...	25.54	52	W	1	0	25.70	+22	48	47	-9	SW	2	6	*	55	41	0.11	
	Loughborough	25.58	52	WNW	1	7	25.76	+27	47	45	-10	W	3	be	*	59	44	0.12	
GERMANY & HOLLAND.	Ardrossan ...	25.50	53	WNW	2	6	25.65	+21	52	50	+1	NW	2	6	1	56	49	0.15	
	Malin Head ...	25.47	57	WNW	5	0	25.72	+33	51	49	+3	WNW	5	C	4	55	47	0.05	
	Mullaghmore ...	25.55	52	W	5	0	25.84	+40	57	46	+2	WNW	5	0	4	55	48	0.10	
	Belmullet ...	25.58	57	WNW	4	0	25.83	+3	52	49	+1	WNW	2	6	*	55	49	0.04	
	Donaghadee ...	25.54	49	SW	2	0	25.71	+24	57	45	+4	WNW	5	C	3	59	46	—	
	Liverpool (Bidston)	25.55	50	W	2	C	25.74	+23	52	49	+3	W	6	C	5	54	47	0.23	
	Holyhead ...	25.57	52	WNW	1	6	25.79	+30	57	45	+2	WNW	5	C	4	56	49	0.13	
	Parsonstown ...	25.64	50	2	0	C	25.90	+38	49	46	+4	2	0	6	*	55	44	0.04	
	Valencia ...	25.72	51	WNW	2	6	25.95	+43	54	52	+4	NW	3	C	4	59	48	0.07	
	Roche's Point...	25.68	52	WNW	4	6	25.96	+40	52	48	+5	W	3	6	3	57	47	—	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	25.64	53	W	4	6	25.90	+37	54	51	+1	NW	4	6	4	55	51	0.09	
	Scilly ...	25.72	54	WNW	4	6	25.98	+42	54	49	-4	NW	4	6	4	58	53	0.18	
	Prawle Point ...	25.66	57	W	3	C	25.95	+37	52	50	-1	WNW	2	6	2	55	45	0.25	
	Jersey (St. Aubin's)	25.65	56	W	5	C	25.97	+38	56	57	-7	WNW	4	6	3	65	45	0.05	
	Hurst Castle ...	25.62	52	WNW	4	7	25.91	+29	52	50	-9	W	4	6	3	62	46	0.44	
	Dungeness ...	25.55	59	W	6	0	25.85	+16	53	48	-11	WNW	4	6	3	66	44	0.10	
	London ...	25.61	54	WNW	2	0	25.88	+24	47	45	-13	WNW	1	6	*	68	42	0.42	
	Oxford ...	25.65	49	NW	2	7	25.86	+25	47	46	-10	W	2	6	*	60	42	0.35	
	Cambridge ...	25.59	56	S	2	7	25.83	+22	46	45	-14	S	2	6	*	67	41	0.45	
	Yarmouth ...	25.56	61	W	4	6	25.79	+14	49	47	-11	W	3	6	3	64	45	0.16	
GERMANY & HOLLAND.	Cuxhaven ...	25.78	59	S	3	6	25.68	-23	59	58	+4	WNW	3	C	*	72	55	—	
	Berlin ...	25.90	61	SE	3	6	25.82	-20	53	51	0	SE	4	6	*	70	50	—	
	Wiesbaden ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	68	48	—	
	Munich ...	25.95	54	SW	1	6	25.96	-12	56	53	+6	SW	1	6	*	68	48	—	
	The Helder ...	25.64	61	S	1	6	25.76	0.0	56	53	-3	WNW	2	C	3	66	52	0.16	
	Brussels (9 a.m.)	*	*	*	*	*	25.87	+10	52	50	-12	SW	3	7	*	71	51	—	
	Cape Gris Nez	25.60	64	WNW	5	0	25.84	+12	53	49	-8	W	5	6	*	64	52	—	
	Paris ...	25.78	64	S	4	C	25.94	+09	52	51	-7	SW	2	7	*	72	51	0.08	
	Brest ...	25.78	56	WNW	3	C	25.91	+03	53	50	-6	NW	1	C	3	61	50	0.35	
	Lorient ...	25.78	57	WNW	4	6	25.91	+28	56	50	-5	NW	2	6	4	63	54	0.35	
FRANCE AND BELGIUM.	Rochefort ...	25.84	62	WNW	5	0	25.95	+15	53	52	-9	WNW	3	6	*	72	54	0.12	
	Belfort ...	25.94	64	W	1	C	25.94	-03	53	46	-4	W	3	0	*	77	50	—	
	Lyons ...	25.91	66	S	3	6	25.97	-01	52	51	-6	NW	3	7	*	73	51	0.43	
	Nice ...	25.93	65	WNW	1	6	25.90	-06	57	52	-6	E	1	6	1	75	51	—	
	Perpignan ...	25.89	66	E	1	6	25.94	-03	64	59	+7	NW	2	0	*	81	51	—	
	Biarritz ...	25.92	68	WNW	5	0	25.96	+23	59	58	-5	NW	4	7	4	81	55	0.49	
	Corunna ...	25.02	*	*	*	*	25.16	+24	57	55	-9	SE	4	6	2	70	48	0.35	
	Lisbon ...	25.02	65	NW	5	6	25.08	+08	62	60	+3	WNW	2	6	3	75	59	—	



for 8 a.m. on Friday, 2<sup>nd</sup> OCTOBER, 1891.

EXPLANATION OF MAP

Changes since previous morning are stated in words.

their barbs and feathers refer to force thus—

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

$\longrightarrow = \text{forces 5 to 7} \mid \longrightarrow = \text{forces 1 to 4}.$

SEA DISTURBANCE - Where considerable, is shown thus:

 = Rough,  = High.

at 8.0 a.m. for the month of October

*During the 20 Years: 1871—1890.*

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

WEATHER is shown by Letters of the Beaufort Scale.

**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE,  
AND RAINFALL.

(For the month of October.)

[illegible]

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.



# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.0 ins. and upwards, in an anticyclone extending from the Atlantic over Spain and the Bay of Biscay and just touching the southwest of Ireland.  
 Lowest, 29.4 ins. and less, in a depression lying over the north of Norway; 29.5 ins. and less, in another system lying over the extreme southwest of that country.  
 Gradients slight. Barometer rising steadily at all but the Swedish, Danish, and German stations.

## TEMPERATURE

Highest, 64° at Perpignan, 62° at Lisbon, 59° at Copenhagen and Danzig, and 58° at St. Petersburg, Tams and Kiev.  
 Lowest, 41° at Aberdeen, 45° at Naim, 46° at Rode, Wick, Shields, and Cambridge, and 47° at Loughborough, Oxford, and in London.  
 A considerable fall has taken place over England, the change since yesterday amounting to 13° in London and 14° at Cambridge.

## WIND

Light to fresh from the NW<sup>th</sup> in all the more western and northern parts of the United Kingdom, and also in the west of France.  
 Moderate from the W<sup>nd</sup> or SW<sup>th</sup> over the eastern and southeastern parts of England.  
 Moderate to strong from the SW<sup>th</sup> at most of the Scandinavian stations.

## WEATHER

Fine and bright over the greater part of our Islands, as well as in Germany and the west of France, but showery at St. Pierre H<sup>t</sup>, Malin H<sup>t</sup>, and Killybegs Island.  
 Rainy over Belgium and central France, as well as at several of the Scandinavian stations.  
 Heavy rain fell yesterday at some of our southern stations, lightning was seen at night over France and the southwest of England, and thunderstorms occurred in Denmark and Holland.

## SEA

Moderate to smooth generally, but rather rough at Liverpool and Cape Fin Key.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone to the southwestward of our Islands seems likely to spread eastwards, and fine weather will probably continue in most districts.

# FORECASTS

For the 24 hours ending at NOON on 3<sup>rd</sup> OCT<sup>r</sup> 1891.

## DISTRICTS.

## FORECASTS.

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

SW<sup>th</sup> winds, light, fair generally, but perhaps local showers.  
 Same as No 5  
 W<sup>th</sup> to NW<sup>th</sup> winds, light or moderate; fine generally, very cold at night.

## DISTRICTS.

## FORECASTS.

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

NW<sup>th</sup> winds, light or moderate; fine generally.  
 NW<sup>th</sup> to W<sup>th</sup> winds, light or moderate; fine to cloudy and 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.

	THER: WIND								THER: WIND						
	BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA
Skudesnaes ...	29.52	57	58	SE	1	C	6	Holyhead ...	29.524	57	57	NW	2	C	2
Sumburgh Head ...	29.56	57	49	SE	1	C	3	Valencia ...	29.64	57	57	NW	3	bc	3
Stornoway ...	29.52	53	51	SW	3	bc	3	Scilly ...	29.63	57	53	W	2	C	4
Aberdeen ...	29.42	53	49	S	2	C	3	Jersey ...	29.64	57	57	NW	5	bc	4
Shields ...	29.46	52	49	WNW	1	C	2	Dungeness ...	29.63	65	61	SW	6	bc	5
Ardrossan ...	29.40	53	51	WNW	2	bc	1	London ...	29.57	62	60	SW	2	ogt	*
Mulin Head ...	29.44	54	49	W	4	bc	3	Yarmouth ...	29.55	64	60	S	5	bc	4
Mullaghmore ...	29.51	54	50	W	4	bc	3	Rochefort ...	29.52	69	66	SW	4	C	*
Belmullet ...	29.53	54	48	WNW	3	C	*								

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

Weather in morning exceedingly fine over southeastern, central and southern Europe, and the Mediterranean, with local fogs in several places; fine over Sweden and Denmark also, fair over the east of England. Dull and rainy in the north and west of England, showery but improving at Valencia. Rain falling later except in the east of Scotland, fall being heaviest in Norway, in the south of England, the Channel and north of France. Thunder and lightning in south of France, the south of England, and eastern shores of the North Sea.

Temperature fallen fast in the west of our islands, risen over the southern and southeastern parts of the Mediterranean, and exceeding 70° at several stations in those regions, (78° at Palermo) and exceeding 60° over Spain, the greater part of France and the south of England, lower elsewhere. Lowest (1) 43° at Charkov and Warsaw, 44° at Ruda Beth, 45° at Kiev, (2) 41° at Poda and Herisand, 45° at Uleaborg, 49° at Archangel; (3) 47° to 48° over the northern parts of Ireland and Scotland. Rising to between 65° and 68° over the southeast of England in morning, and to between 75° and 85° in the south of France; falling fast again in south of England towards night.

Wind very light and anticyclonic over southeastern and central Europe, light and variable over Mediterranean; very fresh from S. and SW. over England and the Channel, moderate S over the North Sea, light S to SW over the Baltic. Veering W over the British Islands later, and freshening from SE in Denmark.

Barometer highest, 30.4 ins: and more to 30.1 ins: in an anticyclone covering central and southern Russia, Poland, Austria and Hungary and exceeding 30.0 ins: over the Mediterranean and southeast of France. Lowest 29.3 ins: and less, off the northwest of Scotland, and below 29.6 ins: over the White Sea, and also in a shallow secondary disturbance approaching the southwest of England from the westward. Disturbances over British Isles moving eastwards later, and barometer rising quickly in their rear.

### EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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

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

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„ Weekly „ „ „ £1 10 0 „



# DAILY WEATHER REPORT.

for *Saturday, 3<sup>rd</sup> October, 1891.*  
*Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.*

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barom.  Reading at 32° F. and Sea Level.	TEMP.  Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 6.)	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 ...	29.66	39	SW	2	c	30.00	+ 51	36	35	- 14	NE	4	0	*	?	?	0.16
	Hernösand ...	29.71	54	Z	0	c	29.80	+ 19	52	51	+ 1	SSW	2	0	*	61	46	-
	Stockholm ...	29.80	53	S	2	c	29.92	+ 12	54	51	- 1	W	2	0	*	63	50	-
	Wisby ...	29.86	53	SSW	4	c	29.92	+ 06	55	54	- 1	SSW	4	0	*	63	50	-
	Bodö ...	29.82	40	N	7	c	29.73	+ 38	43	38	- 3	E	8	C	4	46	36	-
	Christiansund	29.55	50	NE	6	r	29.80	+ 24	46	45	- 4	SW	2	r	4	52	46	1.22
	Skudesnaes ...	29.76	50	Z	0	c	30.00	+ 51	53	48	+ 2	SW	2	c	3	54	45	0.04
	Christiania Fjord (Færdar)	29.67	55	W	5	b	29.92	+ 40	53	48	- 4	W	4	b	3	57	52	-
	Skagen (The Scaw)	29.78	53	W	4	b	29.97	+ 45	48	46	- 10	W	1	bc	0	61	43	-
	Fanö ...	29.90	51	WSW	1	b	30.04	+ 42	52	51	- 6	E	1	b	*	61	48	-
BRITISH ISLANDS.	Sumburgh Head	29.74	47	Z	0	b	29.75	+ 14	51	49	+ 3	S	2	0	3	53	42	0.01
	Stornoway ...	29.74	51	SW	3	0	29.71	+ 04	51	51	+ 2	SW	4	0	4	57	47	0.04
	Wick ...	29.80	50	Z	0	bc	29.76	+ 11	52	50	+ 6	SW	3	0	1	58	44	0.03
	Nairn ...	29.78	51	W	1	b	29.78	+ 13	51	48	+ 6	Z	0	b	0	59	45	0.01
	Aberdeen ...	29.84	48	S	1	bc	29.91	+ 25	49	47	+ 8	S	3	0	2	56	41	0.05
	Leith ...	29.83	52	W	1	b	29.92	+ 30	54	52	+ 4	SW	1	0	*	57	48	-
	Shields ...	29.83	52	NW	1	c	30.02	+ 40	47	45	+ 1	S	2	c	2	57	42	-
	Spurn Head ...	29.84	55	WNW	3	cp	30.13	+ 40	52	49	+ 3	SW	2	bm	2	55	47	0.03
	York ...	29.86	52	NW	1	c	30.12	+ 42	49	47	+ 1	S	1	b	*	56	42	0.19
	Loughborough	29.92	52	W	4	c	30.15	+ 39	43	43	- 4	Z	0	bfw	*	58	38	0.05
GERMANY & HOLLAND.	Ardrossan ...	29.88	53	W	3	c	29.94	+ 29	54	54	+ 2	SSW	3	r	3	60	51	0.04
	Malin Head ...	29.86	52	SW	4	0	29.82	+ 10	54	53	+ 3	S	5	oap	3	55	48	0.02
	Mullaghmore ...	29.91	52	SSW	3	c	29.88	+ 04	56	55	+ 5	SSW	5	op	4	56	51	0.15
	Belmullet ...	29.87	54	WSW	2	0	29.84	- 03	57	57	+ 5	WSW	5	op	*	57	51	0.44
	Donaghadee ...	29.92	49	SSW	2	bc	29.97	+ 26	54	52	+ 3	SSW	2	0	0	59	46	0.02
	Liverpool (Bidston)	29.95	52	W	5	0	30.13	+ 39	52	49	0	S	3	c	3	54	48	0.18
	Holyhead ...	29.96	52	WNW	3	b	30.08	+ 29	56	53	+ 5	SW	4	bc	4	57	50	-
	Parsonstown ...	29.98	52	Z	0	bc	30.02	+ 12	54	53	+ 5	SE	1	0	4	58	48	0.02
	Valencia ...	30.03	53	W	3	om	30.04	+ 05	57	56	+ 3	SEE	6	om	5	59	52	0.03
	Roche's Point...	30.04	55	W	3	c	30.10	+ 14	56	54	+ 4	WSW	3	c	4	57	51	-
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.04	55	W	4	c	30.17	+ 27	56	55	+ 2	SSW	4	og	4	57	53	0.01
	Scilly ...	30.10	55	WNW	4	bc	30.20	+ 22	56	54	+ 2	WSW	3	op	4	57	52	0.02
	Prawle Point ...	30.09	51	WNW	3	c	30.25	+ 30	55	52	+ 3	SW	2	og	1	59	48	-
	Jersey (St. Aubin's)	30.10	58	W	3	bc	30.28	+ 31	54	51	- 2	WNW	3	bc	3	61	47	-
	Hurst Castle ...	30.04	54	NW	3	b	30.24	+ 33	53	52	+ 1	WNW	3	bm	2	61	49	-
	Dungeness ...	29.96	57	NW	4	bc	30.23	+ 38	43	42	- 7	N	3	b	2	63	38	-
	London ...	29.99	54	WSW	2	b	30.22	+ 34	47	45	0	SW	1	bw	*	60	40	-
	Oxford ...	30.06	47	W	1	b	30.23	+ 37	43	43	- 4	Z	0	bfw	*	60	41	-
	Cambridge ...	29.96	55	W	2	r	30.22	+ 39	48	47	+ 2	SW	1	b	*	59	40	0.03
	Yarmouth ...	29.88	51	SW	3	c	30.15	+ 36	47	48	- 2	W	3	bm	3	58	41	0.10
PENIN- SULA.	Cuxhaven ...	29.86	54	WNW	2	c	30.08	+ 40	47	46	- 12	SSW	2	m	*	60	46	0.04
	Berlin ...	29.90	59	NW	5	0	30.10	+ 28	54	53	+ 1	NW	4	0	*	68	53	0.28
	Wiesbaden ...	*	*	*	*	*	30.20	*	46	45	*	Z	0	b	*	57	43	0.47
	Munich ...	29.98	53	NW	3	r	30.20	+ 24	46	46	- 10	W	4	0	*	68	46	0.28
	The Helder ...	29.96	56	WSW	2	b	30.15	+ 39	56	52	0	WNW	2	bo	3	59	52	-
	Brussels (9 a.m.)	*	*	*	*	*	30.22	+ 35	48	47	- 4	SSW	1	b	*	62	42	-
	Cape Gris Nez	29.95	56	W	5	bc	30.17	+ 33	52	50	- 1	WNW	3	b	3	59	50	-
	Paris ...	30.08	51	NW	2	b	30.26	+ 32	42	42	- 10	SW	1	b	*	62	40	-
	Brest ...	?	56	NW	2	bc	?	?	53	52	0	SE	1	c	3	63	50	-
	Lorient ...	30.14	58	NW	4	b	30.28	+ 27	50	49	- 6	ESE	1	b	4	63	48	-
FRANCE AND BELGIUM.	Rocheport ...	30.13	58	NW	4	bc	30.22	+ 23	51	50	- 4	E	3	b	*	64	48	-
	Belfort ...	?	57	W	4	c	?	?	52	41	- 3	N	3	f	*	68	43	0.20
	Lyons ...	30.10	51	NE	1	0	30.19	+ 22	48	44	- 4	WNW	3	b	*	52	45	0.98
	Nice ...	29.91	55	E	2	r	29.75	- 25	56	53	- 2	NE	2	bc	3	73	54	0.71
	Perpignan ...	30.09	59	NW	5	0	30.16	+ 22	57	50	- 7	NW	4	c	*	66	55	0.04
	Biarritz ...	30.17	63	N	3	bc	30.23	+ 17	54	52	- 5	ESE	3	c	2	66	50	0.28

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, 3<sup>rd</sup> October, 1891.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP

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

Changes since previous morning are stated in words.

**WIND**—Arrows show the prevalent winds. They fly with the wind and

their barbs and feathers refer to force thus—

— forces above 10; — forces 8 to 10;

— forces 5 to 7; — forces 1 to 4.

— dead calm.

**SEA DISTURBANCE**—Where considerable, is shown thus:

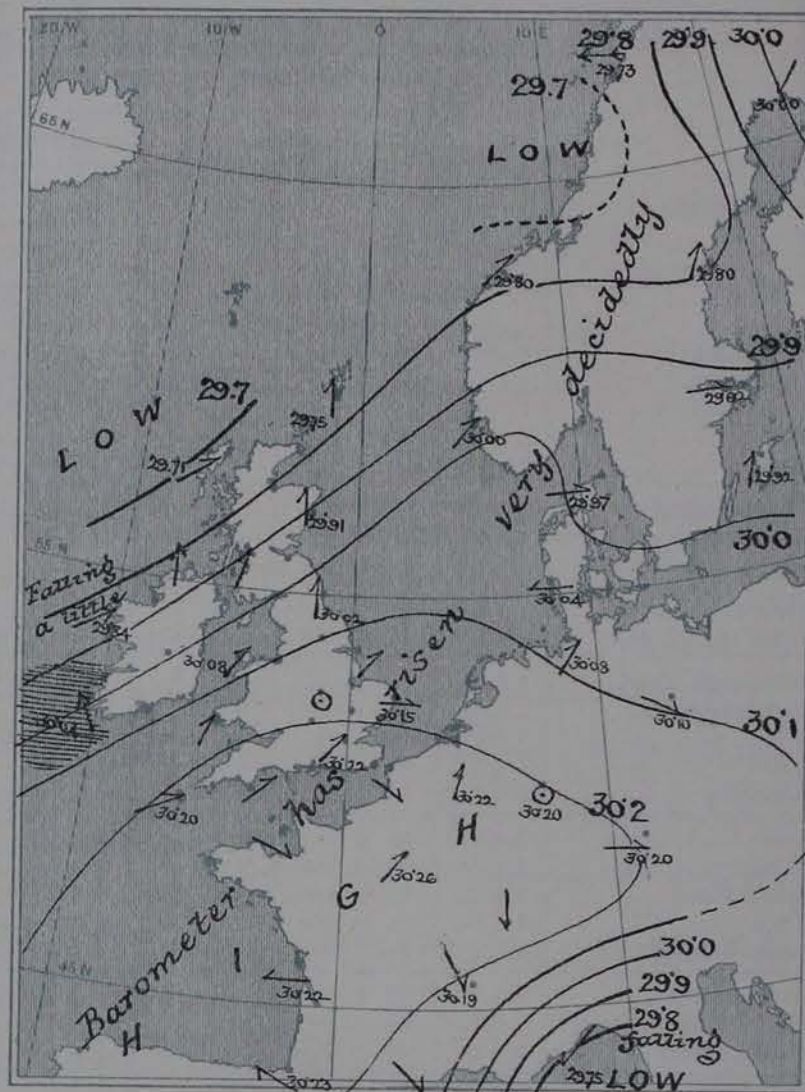
— Rough. — High.

## MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of October

During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.726
Stornoway	29.756
Wick	29.763
Nairn	29.779
Aberdeen	29.793
Leith	29.822
Shields	29.846
Spurn Head	29.867
York	29.882
Loughborough	29.904
Ardrossan	29.831
Mullaghmore	29.845
Donaghadee	29.850
Holyhead	29.872
Liverpool	29.879
Parsonstown	29.897
Valencia	29.896
Roche's Point	29.892
Pembroke	29.888
Scilly	29.910
Prawle Point	29.931
Jersey	29.925
Hurst Castle	29.921
Dover	29.916
LONDON	29.923
Oxford	29.921
Cambridge	29.912
Yarmouth	29.891



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

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

**WEATHER** is shown by Letters of the Beaufort Scale.

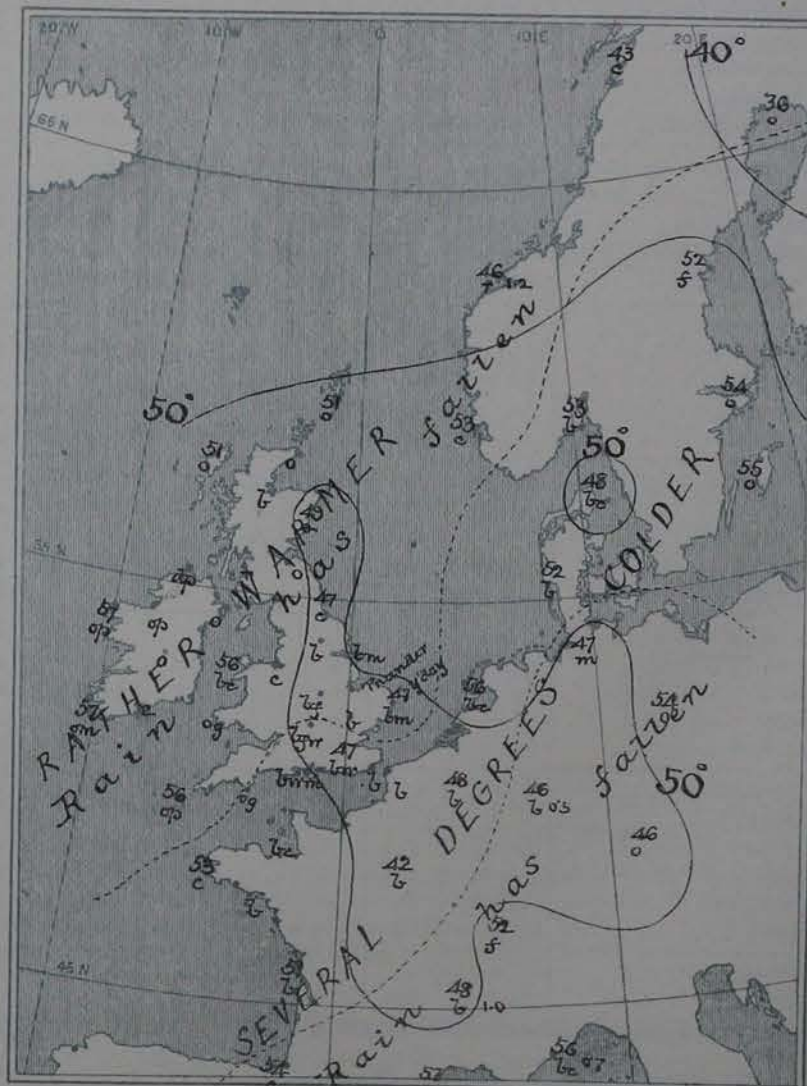
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of October.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 5 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	49.8	41.6	46.0	44.3	4.27
Stornoway .....	51.0	40.5	45.6	44.5	5.04
Wick.....	51.7	40.5	46.3	44.6	3.02
Nairn.....	51.9	40.8	44.8	42.9	2.38
Aberdeen.....	52.5	41.4	45.6	43.6	2.87
Leith.....	54.7	41.8	46.7	44.9	1.97
Shields.....	53.2	42.7	47.2	45.4	2.48
Spurn Head.....	53.3	45.7	48.8	47.3	2.27
York.....	54.5	41.4	45.9	44.5	2.60
Loughborough.....	53.7	41.1	45.9	44.6	2.80
Ardrossan.....	53.7	43.7	47.8	45.8	3.87
Mullaghmore.....	54.2	45.7	49.1	46.9	4.75
Donaghadee.....	53.6	43.6	47.8	46.6	3.14
Holyhead.....	54.7	47.3	50.3	48.3	4.31
Liverpool.....	53.8	44.7	47.8	45.8	3.46
Parsonstown.....	54.8	41.0	46.2	44.5	3.16
Valencia.....	56.6	46.8	51.4	49.2	5.88
Roche's Point.....	56.0	46.1	50.2	48.3	4.09
Pembroke.....	54.9	48.0	51.2	49.2	3.96
Scilly.....	56.6	50.2	53.7	51.6	3.70
Prawle Point.....	56.7	46.2	51.2	49.6	3.60
Jersey.....	58.2	48.6	53.3	50.7	4.45
Hurst Castle.....	57.1	45.8	50.8	49.2	3.28
Dover.....	56.1	46.2	50.2	48.2	3.22
LONDON.....	56.7	42.7	47.5	45.9	2.57
Oxford.....	55.5	42.2	46.2	44.9	2.56
Cambridge.....	56.5	41.0	46.4	45.3	2.27
Yarmouth.....	54.3	44.6	49.0	47.6	2.92

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.2 ins: and upwards, over the Bay of Biscay, the Channel, the south of England, and greater part of France.  
 Lowest, 29.7 ins: and less, in a depression lying off the west of Norway, and also in another system lying to the northward of the Hebrides; 29.8 ins: and less, in a third disturbance lying over the Gulf of Genoa.

Gradients slight generally, but steep over the southeast of France.

Barometer falling slightly in the northwest of Ireland and more decidedly in the southeast of France, but rising elsewhere.

## TEMPERATURE

Highest, 62° at Dublin, 57° at Belmullet, Valencia Island and Perpignan, and 56° at Mullaghmore, Holyhead, Hobart, Pembroke, Sully and Nice.

Lowest, 36° at Haparanda, 42° at Paris, 43° at Rode, Loughborough, Oxford and Dungeness, and 46° at Wiesbaden and Munich.

During last night the thermometer in London fell to 30° on the grass.

## WIND

S<sup>3</sup> or SW<sup>4</sup> in all the more western and northern parts of our Islands, light or moderate in force generally, but fresh or strong in the west of Ireland.

Light from the W<sup>1</sup> or NW<sup>2</sup> in the southeast of England, and also in Germany.

W<sup>3</sup> in the south of Scandinavia; E<sup>1</sup> in the north of that country, with a gale at Rode.

## WEATHER

Fine over the greater part of England, as well as in Denmark, the Netherlands and France, but foggy over our midland counties.

Dull and showery in the western parts of the United Kingdom and also at several of the Scandinavian stations.

Since yesterday morning slight rain has fallen in many parts of our Islands, and larger amounts in Germany and the east and south of France.

## SEA

Moderate to smooth generally, but rather rough at Valencia Island.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Depressions are apparently beginning to skirt our extreme western and northwestern coasts, but the weather over England is likely to remain fine for the present, with high day temperatures but with cold foggy nights.

# FORECASTS

For the 24 hours ending at NOON on 4<sup>th</sup> October 1891.

## DISTRICTS.

## FORECASTS.

## DISTRICTS.

## FORECASTS.

0 SCOTLAND  
NORTH

S<sup>2</sup> and SW<sup>3</sup> winds, freshening;  
dull, rain locally.

1 SCOTLAND  
EAST

S<sup>3</sup> winds, moderate; fair generally.

2 ENGLAND  
N.E.

3 ENGLAND  
EAST

4 MIDLAND  
COUNTIES

W<sup>1</sup> and SW<sup>2</sup> winds, light; fine generally,  
warm in daytime, very cold at night, with local  
fogs.

5 ENGLAND  
SOUTH

6 SCOTLAND  
WEST

Same as No. 0.

7 ENGLAND  
N.W.

Same as Nos 1 and 2.

8 ENGLAND  
S.W.

SW<sup>3</sup> winds, moderate; cloudy, local  
showers

9 IRELAND  
NORTH

10 IRELAND  
SOUTH

S<sup>2</sup> and SW<sup>3</sup> winds, fresh or strong;  
dull, some rain

## WARNINGS

None issued.

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

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.60	53	50	WNW	5	0	3		Holyhead ...	29.92	55	50	WNW	4	4
Sumburgh Head ...	29.70	52	50	W	1	6	2		Valencia ...	30.03	58	52	WSW	2	3
Stornoway ...	29.73	54	53	SW	3	c	3		Scilly ...	30.05	57	53	WNW	4	4
Aberdeen ...	29.78	53	49	NW	2	cph	1		Jersey ...	30.05	61	53	W	4	3
Shields ...	29.73	55	51	WSW	2	c	2		Dungeness ...	29.92	62	54	WNW	4	3
Ardrossan ...	29.77	56	53	W	3	b	2		London ...	29.92	61	56	W	3	*
Malin Head ...	29.84	53	48	WNW	3	c	3		Yarmouth ...	29.83	58	53	WSW	3	3
Mullaghmore ...	29.90	55	51	WSW	4	c	3		Rochefort ...	30.06	64	57	NW	4	3
Belmullet ...	29.90	55	49	WSW	2	0	*								

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

Weather in morning fine and bright over Russia, central and southern Europe, as well as at many of the Mediterranean and Spanish stations, temporarily fine over several parts of the British Islands also; cloudy and unsettled over the North Sea and Scandinavia, and rainy over the greater part of France. Rain later over all the northern and western parts of our Islands, as well as in Norway, Germany, and the south and east of France; amounts very large at Christiania, Belfast, and Lyons. Thunder at Yarmouth.

Temperature much lower over England and France than of late, but inclined to rise again in Ireland, morning readings exceeding 70° at a few of the Mediterranean stations, much lower elsewhere. Below 50° in the north and east of Great Britain, and lowest of all (1) 41° at Aberdeen, 45° at Uain, 46° at Wick and Cambridge; (2) 40° at Craon and Kief, 41° at Kharkov, 43° at Warsaw and also at Archangel, 46° at Prague. Rising later to a little above 60° in some parts of England and over the northern half of France to 73° at Nice and to 75° at Lisbon.

Winds light and anticyclonic over Russia, Poland, and Austria-Hungary, light and variable over the Mediterranean and Spain, moderate to light from between NW. and N over the United Kingdom, from W. in the Netherlands and Holstein, from S. and SSE. over the Baltic and Gulf of Bothnia. Backing to SW. on our northwest coasts, later, not much change elsewhere.

Barometer highest (1) 30.4 ins. and more to 30.1 ins. in an anticyclone over Russia and Hungary; (2) 30.1 ins. and more in another lying over the northwest of Spain and neighbouring parts of the Atlantic. Lowest 29.4 ins. and less, in a depression over the west of Iceland, and below 29.5 ins. in a secondary over the south of Norway. Below 30.0 ins. over the western portion of the Mediterranean. Rising over Western Europe during day as the Spanish anticyclone spread northwards to the British Islands.

### EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

„ Weekly „ „ „ „ £1 10 0 „



# DAILY WEATHER REPORT.

for Sunday 4<sup>th</sup> OCTOBER

1891.

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

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea. (0 to 12.)	SHADE TEMP.				
	Reading at 32° F. and Sea Level.	Dry.	Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)		Max.	Min.	Amount of Rainfall.		
SCANDINAVIA.	Haparanda ...	29.85	45	Z	0	f	30.00	+ 00	37	36	+ 1	Z	0	b	*	50	34	—
	Hernösand ...	30.10	43	S	2	b	30.16	+ 36	39	38	— 13	Z	0	b	*	61	39	—
	Stockholm ...	30.09	52	Z	0	o	30.15	+ 23	45	44	— 9	Z	0	f	*	64	?	—
	Wisby ...	30.10	53	NNW	4	r	30.13	+ 21	51	50	— 4	NNW	4	o	*	55	48	0.32
	Bodö ...	29.81	43	SW	6	r	29.89	+ 16	47	47	+ 4	S	4	b	2	7	37	0.43
	Christiansund	29.92	51	S	4	b	30.00	+ 20	52	49	+ 6	SE	1	c	3	52	44	0.20
	Skudesnaes ...	30.10	54	S	8	r	30.13	+ 13	55	54	+ 2	SSE	6	o	4	7	52	0.08
	Christiania Fjord (Frøder)	30.09	50	WSW	3	b	30.16	+ 24	53	50	0	WSW	4	b	2	56	53	—
	Skagen (The Seaw)	30.17	50	NNW	1	b	30.20	+ 23	52	51	+ 4	WSW	1	o	0	55	46	—
	Fanö ...	30.26	47	Z	0	b	30.27	+ 23	50	50	— 2	SW	1	b	*	59	46	—
BRITISH ISLANDS.	Sumburgh Head	29.83	51	Z	0	o	29.81	+ 06	53	52	+ 2	S	4	o	4	55	48	—
	Stornoway ...	29.74	56	SW	6	r	29.73	+ 02	52	52	+ 1	W	5	r	5	57	50	0.85
	Wick ...	29.83	52	SW	3	c	29.81	+ 05	56	55	+ 4	S	5	o	3	59	50	0.03
	Nairn ...	29.83	60	SW	3	c	29.83	+ 05	58	55	+ 7	WSW	2	c	2	64	51	—
	Aberdeen ...	29.94	56	SSW	4	bc	29.98	+ 07	57	52	+ 8	S	4	cq	3	58	49	—
	Leith ...	30.00	59	WSW	4	o	29.99	+ 07	58	53	+ 4	SW	3	o	*	62	53	—
	Shields ...	30.07	58	S	4	c	30.11	+ 09	54	51	+ 7	S	2	bc	2	58	45	—
	Spurn Head ...	30.17	55	SSW	2	cm	30.20	+ 07	53	51	+ 1	SSW	3	bc	3	61	51	—
	York ...	30.16	56	S	1	o	30.19	+ 07	55	52	+ 6	S	1	o	*	59	46	—
	Loughborough	30.19	55	WSW	2	o	30.20	+ 05	48	47	+ 5	SE	2	cm	*	61	43	—
GERMANY & HOLLAND.	Ardrossan ...	30.00	57	SSW	4	o	30.00	+ 06	56	54	+ 2	S	4	o	4	58	53	0.01
	Malin Head ...	29.85	59	SSW	5	o	29.83	+ 01	55	53	+ 1	S	5	og	3	60	47	0.02
	Mullaghmore ...	29.91	59	SSW	7	o	29.86	— 02	55	53	— 1	SSW	6	pg	5	61	55	0.06
	Belmullet ...	29.86	57	SSW	5	o	29.83	— 01	53	52	— 4	SW	1	o	*	61	52	0.63
	Donaghadee ...	30.02	58	SW	3	c	30.02	+ 05	55	53	+ 1	SW	5	op	3	62	53	—
	Liverpool (Bidston)	30.16	58	SSW	2	c	30.17	+ 04	53	50	+ 1	SSE	2	c	3	62	52	—
	Holyhead ...	30.12	57	SSW	4	o	30.09	+ 01	56	53	0	SSW	5	cq	4	61	53	0.02
	Parsonstown ...	30.03	57	SE	1	c	29.97	— 05	55	52	+ 1	SE	2	c	*	64	53	—
	Valencia ...	30.00	58	SSW	6	o	29.92	— 12	58	56	+ 1	SSE	7	og	6	60	56	0.02
	Roche's Point...	30.09	55	SW	4	o	30.03	— 07	57	54	+ 1	SW	5	o	4	57	54	—
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.18	57	SSW	4	c	30.15	— 02	56	55	0	SSW	4	bc	4	60	55	—
	Scilly ...	30.19	58	S	4	c	30.14	— 06	58	55	+ 2	S	4	bc	4	61	53	—
	Prawle Point ...	30.26	53	W	2	bc	30.21	— 04	57	55	+ 2	SSE	2	b	2	59	53	—
	Jersey (St. Aubin's)	30.28	59	SE	2	b	30.25	— 03	58	53	+ 4	E	2	bmw	2	63	45	—
	Hurst Castle ...	30.27	56	W	3	b	30.25	+ 01	56	54	+ 3	NNE	2	c	1	63	48	—
	Dungeness ...	30.26	57	SW	3	b	30.26	+ 03	46	45	+ 3	Z	0	cm	0	62	40	—
	London ...	30.25	53	WSW	1	bm	30.27	+ 05	48	47	+ 1	Z	0	fw	*	62	39	—
	Oxford ...	30.26	54	WSW	1	c	30.26	+ 03	46	45	+ 3	SSW	1	bef	*	62	39	—
	Cambridge ...	30.24	55	SW	1	c	30.27	+ 05	47	47	— 1	SW	1	b	*	64	38	—
	Yarmouth ...	30.22	57	SSW	2	b	30.25	+ 10	52	50	+ 5	WSW	2	bmw	2	59	45	—
PENINSULA.	Cuxhaven ...	30.22	50	NNW	1	b	30.31	+ 23	46	45	— 1	S	1	f	*	58	44	—
	Berlin ...	30.26	55	W	1	b	30.34	+ 24	48	47	— 6	Z	0	b	*	57	45	0.04
	Wiesbaden ...	*	*	*	*	*	30.26	+ 06	53	50	+ 7	Z	0	c	*	59	43	—
	Munich ...	30.26	46	NW	2	r	30.20	— 00	48	47	+ 2	NE	5	o	*	48	46	0.12
	The Helder ...	30.30	51	WSW	1	b	30.32	+ 17	45	44	— 11	S	1	b	1	57	43	—
	Brussels (9 a.m.)	*	*	*	*	*	30.29	+ 07	48	48	0	NE	1	b	*	61	39	—
	Cape Gris Nez	30.24	55	SW	1	b	30.27	+ 10	49	47	— 3	E	1	b	1	61	48	—
	Paris ...	30.28	50	N	2	b	30.26	— 00	39	39	— 3	NNE	1	b	*	63	38	—
	Brest ...	?	63	SW	1	b	?	?	52	52	— 1	E	1	b	2	66	35	—
	Lorient ...	30.27	56	Z	0	b	30.20	— 08	51	49	+ 1	E	3	b	2	62	50	—
FRANCE AND BELGIUM.	Rochefort ...	30.23	61	ESE	3	b	30.17	— 05	49	47	— 2	ESE	4	b	2	?	46	—
	Belfort ...	?	57	N	3	c	?	?	52	41	0	N	3	o	*	68	42	—
	Lyons ...	30.15	53	NNW	3	bc	30.13	— 06	47	45	— 1	N	2	c	*	60	46	—
	Nice ...	29.93	60	SSE	1	c	29.96	+ 21	58	51	+ 2	ESE	2	bc	2	66	54	—
	Perpignan ...	30.08	60	NW	5	b	30.07	— 09	52	46	— 5	W	2	b	*	68	46	—
	Biarritz ...	30.17	61	E	2	b	30.11	— 12	48	46	— 6	SE	3	b	2	68	45	—
	Corunna ...	*	*	*	*	*	30.05	— 12	56	53	— 4	SE	6	b	2	68	46	—
Lisbon ...	30.02	62	NW	4	b	30.05	— 04	61	57	— 1	Z	0	b	2	75	59	—	



# WEATHER CHARTS

for 8 a.m. on Sunday, 4<sup>th</sup> October, 1891.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP

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

Changes since previous morning are stated in words.

**WIND**—Arrows show the prevalent winds. They fly with the wind and

their barbs and feathers refer to force thus—

— forces above 10; — forces 8 to 10;

— forces 5 to 7; — forces 1 to 4.

— dead calm.

**SEA DISTURBANCE**—Where considerable, is shown thus:

— Rough. — High.

## MEAN HEIGHT OF THE BAROMETER

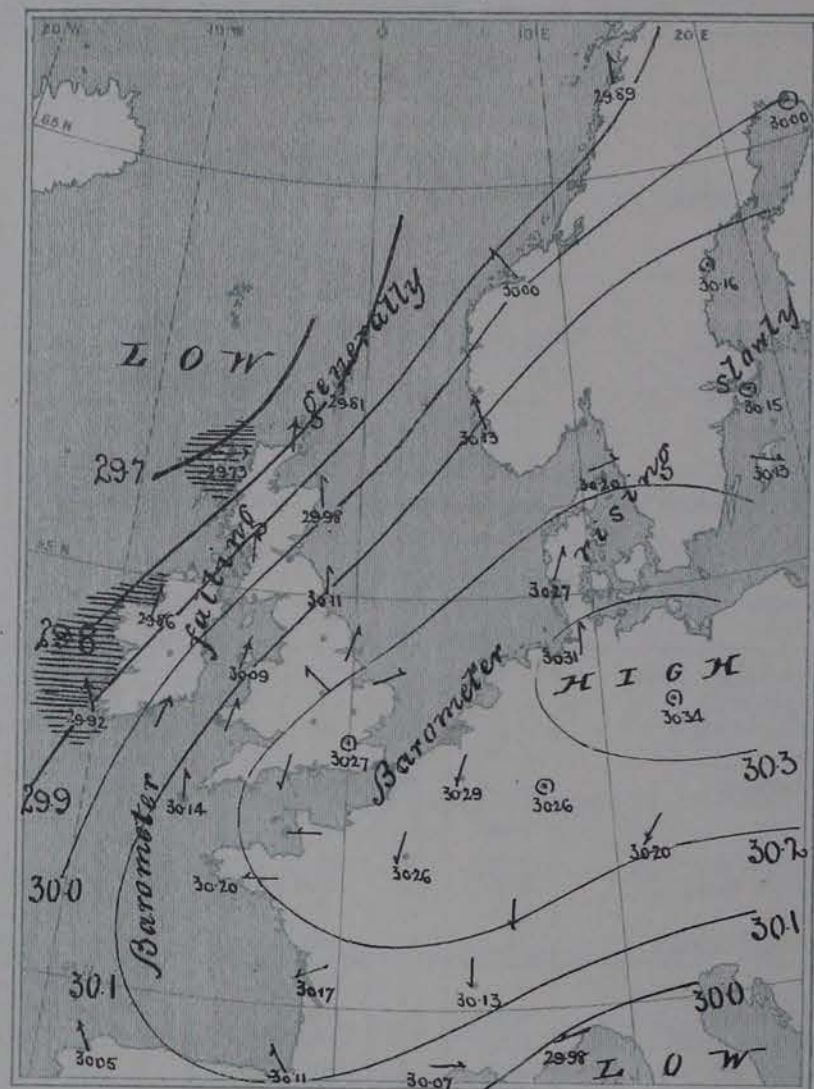
at 8.0 a.m. for the month of October

During the 20 Years: 1871—1890.

### STATIONS.

### MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.726
Stornoway	29.756
Wick	29.763
Nairn	29.770
Aberdeen	29.793
Leith	29.822
Shields	29.846
Spurn Head	29.867
York	29.882
Loughborough	29.904
Ardrossan	29.831
Mullaghmore	29.845
Donaghadee	29.850
Holyhead	29.872
Liverpool	29.879
Parsonstown	29.897
Valencia	29.895
Roche's Point	29.892
Pembroke	29.888
Scilly	29.910
Prawle Point	29.931
Jersey	29.925
Hurst Castle	29.921
Dover	29.916
LONDON	29.923
Oxford	29.924
Cambridge	29.912
Yarmouth	29.891





## GENERAL SITUATION AT 8 A.M.

### PRESSURE

Highest, 30.2 ins. to 30.3 ins. and upwards, in an anticyclone lying over Denmark, Germany, the Netherlands, the south and east of England and north of France.  
Lowest, 29.7 ins. and less, in a depression lying to the northward of Scotland.  
Gradients moderate over the west and north of our Islands, but slight elsewhere.  
Barometer falling a little in France, Spain, and the western and northern parts of the United Kingdom, but rising elsewhere.

### TEMPERATURE

Highest, 61° at Lisbon, and 58° at Nain, Leith, Valencia Island, Scilly, Jersey, and Nice.  
Lowest, 37° at Haparanda, 39° at Helsingfors and Paris, 45° at Stockholm and the Udden, and 46° at Lüneburg and Oxford.  
 During yesterday the thermometer rose very little above 60° in any other part of our Islands; ground frost was experienced over England at night.

### WIND

S<sup>3</sup> over the greater part of our Islands, and fresh or strong in force on our western and extreme northern coasts.  
 Light from the E<sup>3</sup> or NE<sup>3</sup> over France and the eastern parts of the Channel.  
 SE<sup>3</sup> in the west of Norway, SW<sup>3</sup> in Denmark, calm in Sweden.

### WEATHER

Dull in Ireland, Scotland, and the west of Norway with passing showers at Belmullet and Mullaghmore.  
 Fine in nearly all other parts of Western Europe, but with fog at some of the English stations.  
 Since yesterday morning rain has fallen in the extreme west and north generally, the largest amount being 0.6 in. at Belmullet.

### SEA

Rough at Valencia Island and rather rough at Stornoway and Mullaghmore, but moderate to smooth elsewhere.

### PROBABLE CHANGES IN SYSTEM NOW PREVALENT

## FORECASTS

For the 24 hours ending at NOON on 5<sup>th</sup> OCT<sup>r</sup> 1891.

### DISTRICTS.

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

### FORECASTS.

None issued

### DISTRICTS.

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

### WARNINGS

### FORECASTS.

None issued

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 ...	30.07	54	50	S	6	c	4	Holyhead ...	30.13	58	56	SSW	4	omg	4
Sumburgh Head ...	29.78	53	51	W	2	c	3	Valencia ...	30.03	59	57	SSW	7	o	6
Stornoway ...	29.75	56	55	SW	4	o	4	Scilly ...	30.21	61	59	SSW	2	o	3
Aberdeen ...	29.90	57	53	SW	4	cq	3	Jersey ...	30.29	61	54	WNW	3	c	3
Shields ...	30.05	57	53	S	3	o	2	Dungeness ...	30.26	61	55	WSW	3	b	2
Ardrossan ...	29.98	56	56	SSW	4	o	3	London ...	30.25	61	56	WSW	2	c	*
Malin Head ...	29.85	60	58	SSW	5	c	3	Yarmouth ...	30.21	59	53	WNW	2	b	3
Mullaghmore ...	29.92	61	59	SSW	6	c	4	Rocheport ...	30.26	70	61	NW	3	b	2
Belmullet ...	29.90	57	57	SSW	4	omw	*								

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

Weather in morning fine and bright over Spain, France and England, with fog and heavy dew in many places, fine over Russia also; cloudy elsewhere, with rain in several parts of Ireland and Norway. Rain later at several of our western and northern stations, in Germany, Ireland, and Norway, and a very heavy fall over the north of Italy, and at Trieste.

Temperature distribution somewhat unusual; morning readings still exceeding 70° over Sicily, Malta, and on the Algerian coast, and exceeding 60° over some of the extreme southern parts of Europe; much lower in other places, and below 50° over the inland parts of France, England, and Russia. Lowest of all (1) 40° at Moscow, Warsaw, and Odesa, 42° at Kiev and Lemberg; (2) 39° at Limoges, 42° at Paris, 48° at Brussels, 53° at Dungeness, Oxford, and Loughborough, 47° in London and at Yarmouth. Rising later to 60° and more over England, and 70° and more over many parts of Southern Europe and on the Algerian coast.

Wind very variable and anticyclonic over France and Russia, NE<sup>3</sup> over Spain, E<sup>3</sup> over the Bay of Biscay, SW<sup>3</sup> in the English Channel; S<sup>3</sup> over the greater part of our Islands, and somewhat strong at the Irish stations. E<sup>3</sup> wind prevalent over Lapland and blowing hard at Bodö. A S<sup>3</sup> gale felt at Belmullet and Stornoway the following night. Blowing strongly on the Norwegian coast also. A cyclonic circulation of fresh breezes over the northeastern part of the Mediterranean all day.

Barometer highest 30.4 ins. and more to 30.1 ins. in an anticyclone over Central Russia; 30.2 ins. and more to 30.1 ins. in another over France, the north of Spain, the Bay of Biscay, and the greater part of England. Lowest 29.9 ins. and less, over the north of Russia and White Sea; 29.7 ins. and less, off the northwest of Norway and extreme northwest of Scotland; 29.8 ins. and less, in a depression over the Gulf of Genoa and neighbouring parts of the Mediterranean. Latter disturbance moving eastwards later and a new one approaching the Irish coast at night.

### EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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" Weekly " " " £1 10 0 "



# DAILY WEATHER REPORT.

for *Monday, 5<sup>th</sup> October,* 1891.  
 Issued by the Meteorological Office, 63, Victoria Street, London. *R. H. SCOTT, Secretary.*

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 3.)	SHADE TEMP.		Amount of Rainfall.	
	Reading at 32° F. and Sea Level.	Dry.	Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...	30.10	43	Z	0	b	30.21	+21	38	37	+1	Z	0	bc	*	46	30	-
	Hernösand ...	30.22	42	Z	0	b	30.26	+10	40	40	+1	Z	0	bc	*	59	32	-
	Stockholm ...	30.25	47	Z	0	b	30.29	+14	44	43	-1	Z	0	bc	*	57	41	-
	Wisby ...	30.17	47	NEW	4	b	30.21	+08	45	45	-6	ESE	4	bc	*	52	45	0.04
	Bodö ...	29.99	50	E	2	b	30.04	+15	53	51	+6	SW	2	bc	1	?	46	0.16
	Christiansund	30.03	56	N	3	o	30.02	+02	51	50	-1	N	1	b	3	60	48	-
	Skudesnaes ...	30.18	56	SSE	6	o	30.13	-00	54	51	-1	SE	6	c	4	?	52	-
	Christiania Fjord (Færder)	30.17	56	WSW	2	b	30.16	-00	51	51	-2	Z	0	f	2	57	48	-
	Skagen (The Seaw)	30.22	55	WSW	1	c	30.18	-02	51	50	-1	Z	0	b	0	57	46	-
	Fanö ...	30.26	49	Z	0	b	30.20	-07	50	50	0	E	1	c	*	59	46	-
BRITISH ISLANDS.	Sumburgh Head	29.90	52	S	2	r	29.76	-05	53	51	0	S	3	c	4	55	48	0.01
	Stornoway ...	29.78	52	Z	0	f	29.58	-15	51	51	-1	SW	4	r	4	54	46	1.50
	Wick ...	29.80	56	S	4	bc	29.78	-03	54	51	-2	S	3	c	1	60	52	-
	Nairn ...	29.84	57	WSW	2	c	29.78	-05	55	52	-3	SW	3	c	1	62	53	-
	Aberdeen ...	29.98	55	S	4	cq	29.84	-14	53	50	-4	SSE	4	bcq	4	59	52	-
	Leith ...	30.00	57	WSW	2	o	29.84	-15	51	49	-2	SSE	1	bc	*	63	49	-
	Shields ...	30.07	58	S	1	c	29.94	-17	50	48	-2	SSE	3	m	2	62	47	-
	Spurn Head ...	30.14	57	SE	2	bc	29.98	-22	55	53	+2	SSE	3	bcw	3	62	50	-
	York ...	30.13	58	S	1	c	29.98	-21	46	45	-1	SSE	1	bc	*	62	43	-
	Loughborough	30.13	55	S	1	c	29.95	-25	44	44	-4	ESE	1	cfw	*	63	41	-
GERMANY & HOLLAND.	Ardrossan ...	29.96	56	SSE	5	o	29.76	-20	55	53	-2	SSE	5	o	4	57	54	-
	Malin Head ...	29.80	53	S	5	or	29.55	-25	54	53	-1	S	5	og	3	55	50	0.40
	Mullaghmore ...	29.84	53	S	2	r	29.53	-33	57	53	+2	SE	6	og	4	57	51	1.47
	Belmullet ...	29.80	52	SW	2	o	29.35	-45	55	53	+2	SSE	7	og	*	55	52	0.80
	Donaghadee ...	29.96	56	SW	4	c	29.74	-22	55	52	0	SSW	6	o	4	61	55	-
	Liverpool (Bidston)	30.09	58	SSE	2	c	29.90	-27	48	47	-1	ESE	2	o	2	61	46	-
	Holyhead ...	30.05	57	SSW	4	cq	29.81	-28	54	51	-2	SSE	5	cqw	4	60	52	-
	Parsonstown ...	29.91	57	Z	6	c	29.61	-36	55	52	0	SE	2	o	*	61	54	0.90
	Valencia ...	29.83	56	SSE	8	rgm	29.42	-50	56	55	-2	SSE	9	omg	7	58	54	1.55
	Roche's Point...	29.94	57	S	5	o	29.61	-42	57	54	0	SSW	7	c	5	58	55	-
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.08	57	SSW	3	b	29.80	-35	56	54	0	S	5	bc	5	59	54	-
	Scilly ...	30.05	57	SSE	4	bc	29.77	-37	57	54	-1	SSE	5	bc	5	61	53	-
	Prawle Point ...	30.12	55	SE	2	b	29.88	-33	57	54	0	SSE	3	bcm	3	60	54	-
	Jersey (St. Aubin's)	30.14	60	ESE	2	bm	29.94	-31	51	50	-1	E	1	of	1	65	47	-
	Hurst Castle ...	30.17	56	SSE	2	bc	29.94	-31	56	55	0	SE	2	m	1	62	53	0.01
	Dungeness ...	30.19	57	SE	2	b	29.99	-27	49	46	+3	S	3	bm	2	63	44	-
	London ...	30.18	56	ESE	1	b	29.98	-20	47	46	-1	Z	0	fw	*	68	43	-
	Oxford ...	30.17	50	Z	0	b	29.97	-20	42	42	-4	Z	0	fw	*	60	36	-
	Cambridge ...	30.21	55	SW	1	b	29.99	-22	48	48	+1	Z	0	b	*	64	39	-
	Yarmouth ...	30.20	56	S	3	b	30.01	-21	51	50	-1	ESE	3	bw	3	59	50	-
GERMANY & HOLLAND.	Cuxhaven ...	30.30	50	NE	1	b	30.22	-09	50	49	+4	ESE	2	b	*	57	46	-
	Berlin ...	30.29	54	Z	0	b	30.22	-12	51	49	+3	E	2	o	*	61	48	-
	Wiesbaden ...	*	*	*	*	*	30.08	-18	50	48	-3	Z	0	o	*	61	46	-
	Munich ...	30.13	52	N	5	o	30.06	-14	48	48	0	E	1	m	*	54	46	0.04
	The Helder ...	30.27	56	E	1	b	30.12	-20	53	51	+8	ESE	1	b	3	57	45	-
	Brussels (9 a.m.)	*	*	*	*	*	29.99	-28	50	48	+1	SE	2	b	*	61	48	-
	Cape Gris Nez	30.16	53	ESE	3	m	30.00	-26	54	52	+15	E	1	o	*	64	39	-
	Paris ...	30.14	57	NE	2	o	30.00	-26	53	52	+1	ESE	3	b	3	66	50	-
	Brest ...	?	60	S	2	b	?	?	53	52	+1	ESE	3	b	3	66	50	-
	Lorient ...	30.12	56	SSE	1	b	29.91	-29	52	50	+1	E	2	b	2	63	50	-
FRANCE AND BELGIUM.	Rocheport ...	30.06	61	ESE	4	b	29.93	-24	49	48	0	ESE	3	b	*	72	46	-
	Belfort ...	?	58	N	1	bc	?	?	53	46	+1	N	3	f	*	62	41	-
	Lyons ...	*	*	*	*	*	30.03	+07	60	54	+2	E	1	c	0	68	55	-
	Nice ...	30.06	60	Z	0	bc	30.03	+07	60	54	+2	E	1	c	0	68	55	-
	Perpignan ...	30.03	53	SE	1	b	29.99	-08	51	49	-1	SW	1	bc	*	70	44	-
	Biarritz ...	30.04	61	NE	3	b	29.89	-22	53	46	+5	SE	3	b	2	66	45	-
	Cornuna ...	*	*	*	*	*	30.00	-05	60	57	-1	Z	0	o	3	68	59	-
	Lisbon ...	30.02	62	NE	3	b	30.00	-05	60	57	-1	Z	0	o	3	68	59	-
	Corunna ...	*	*	*	*	*	30.00	-05	60	57	-1	Z	0	o	3	68	59	-
	Lisbon ...	30.02	62	NE	3	b	30.00	-05	60	57	-1	Z	0	o	3	68	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 Monday, 5<sup>th</sup> OCTOBER, 1891.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP

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

Changes since previous morning are stated in words.

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

→ forces above 10; → forces 8 to 10;

→ forces 5 to 7; → forces 1 to 4.

○ = dead calm.

**SEA DISTURBANCE**—Where considerable, is shown thus:

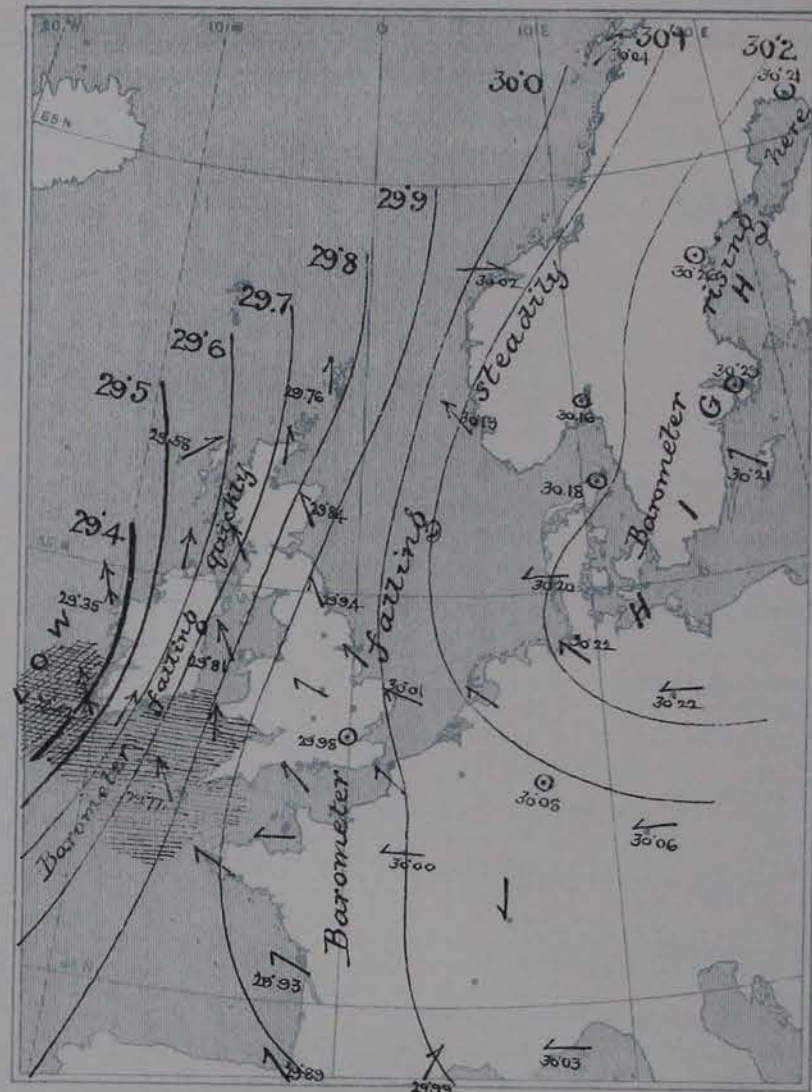
▨ = Rough. ▨ = High.

## MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of October

During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.726
Stornoway	29.756
Wick	29.763
Nairn	29.773
Aberdeen	29.793
Leith	29.822
Shields	29.840
Spurn Head	29.867
York	29.882
Loughborough	29.904
Ardrossan	29.831
Mullaghmore	29.845
Donaghadee	29.850
Holyhead	29.872
Liverpool	29.879
Parsonstown	29.887
Valencia	29.896
Roche's Point	29.892
Pembroke	29.848
Seilly	29.910
Prawle Point	29.931
Jersey	29.925
Hurst Castle	29.923
Dover	29.916
LONDON	29.923
Oxford	29.924
Cambridge	29.912
Yarmouth	29.894



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

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

**WEATHER**—is shown by Letters of the Beaufort Scale.

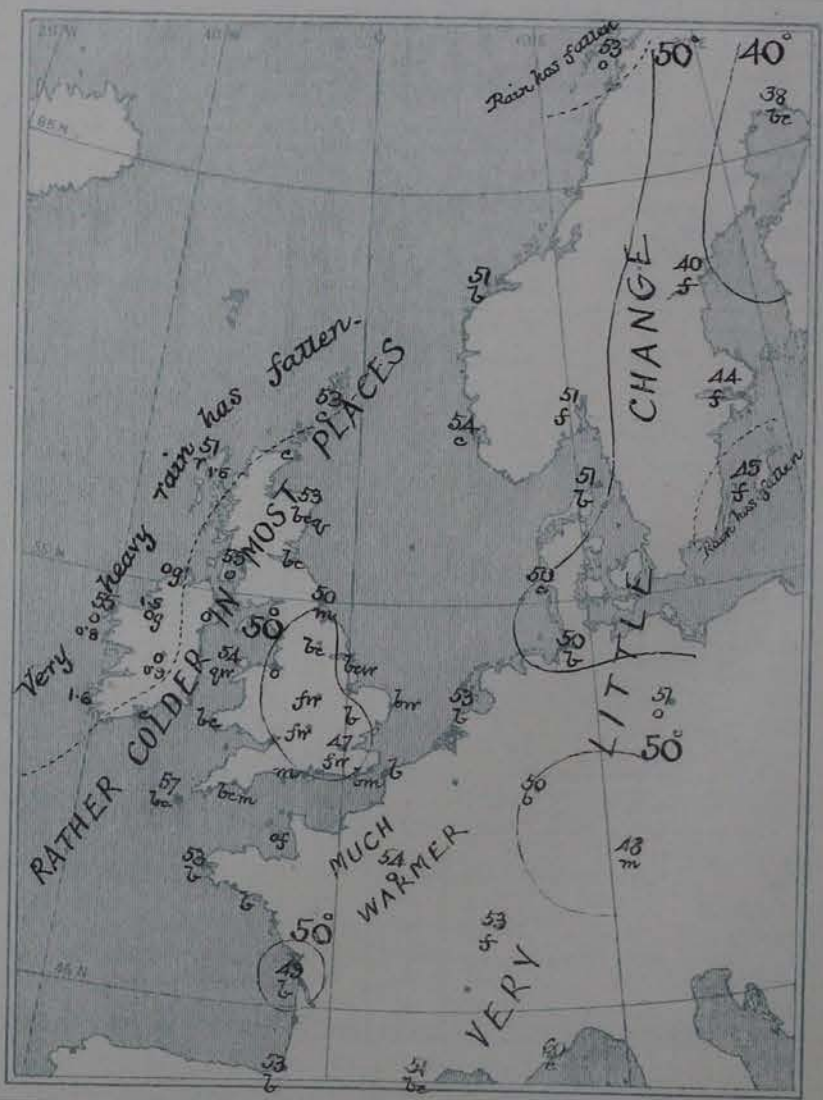
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of October.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Samburgh Head.....	49.8	41.6	46.0	44.3	4.27
Stornoway.....	51.0	40.5	45.0	44.5	5.04
Wick.....	51.7	40.5	46.3	44.0	3.02
Nairn.....	51.9	40.8	44.8	42.9	2.98
Aberdeen.....	52.5	41.4	45.6	43.6	2.87
Leith.....	54.7	41.8	46.7	44.9	1.97
Shields.....	53.2	42.7	47.2	45.4	2.48
Spurn Head.....	53.3	45.7	48.8	47.3	2.27
York.....	54.5	41.4	45.9	44.5	2.40
Loughborough.....	55.7	41.1	45.9	44.6	2.80
Ardrossan.....	53.7	43.7	47.8	45.8	3.87
Mullaghmore.....	54.2	45.7	49.1	46.9	4.75
Donaghadee.....	53.6	43.6	47.8	46.6	3.14
Holyhead.....	54.7	47.3	50.3	48.3	4.31
Liverpool.....	53.8	44.7	47.8	45.8	3.46
Parsonstown.....	54.8	41.0	48.2	44.5	3.16
Valencia.....	56.6	46.8	51.4	49.2	5.88
Roche's Point.....	56.0	46.1	50.2	48.3	4.09
Pembroke.....	54.9	48.0	51.2	49.2	3.96
Seilly.....	56.6	50.2	53.7	51.6	3.70
Prawle Point.....	56.7	46.2	51.2	49.6	3.60
Jersey.....	58.2	48.6	53.3	50.7	4.45
Hurst Castle.....	57.1	45.8	50.8	49.2	3.28
Dover.....	56.1	46.2	50.2	48.2	3.22
LONDON.....	56.7	42.7	47.5	45.9	2.57
Oxford.....	55.6	42.2	46.2	44.9	2.56
Cambridge.....	56.5	41.0	46.4	45.3	2.27
Yarmouth.....	54.3	44.6	49.0	47.6	2.92

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.2 in: and upwards, over Sweden, the Baltic, North Germany, and the south of Denmark.  
 Lowest, 29.4 in: and less, in a deep depression lying off the west of Ireland.  
 Gradients steep over the west and north of our Islands, but slight elsewhere.  
 Barometer falling at all but the Swedish stations, — quickly in Ireland.

## TEMPERATURE

Highest, 60° at Nice and Lisbon, and 57° at Mullaghmore, Roghurbuit, Scilly, Prawle Point and Yarmouth.  
 Lowest, 38° at Haparanda, 40° at Helsingfors, 42° at Oxford, and 44° at Stockholm and Loughborough.  
 The highest maxima registered over our Islands yesterday were 68° in London, 65° at Jersey, and 64° at Cambridge.

## WIND

SE or S over the whole of the United Kingdom, fresh or strong in force on our western coasts, with a gale at Valencia Island.  
 Light from the E over France, Germany, and the Netherlands; calm at many of the Scandinavian stations.

## WEATHER

Fine over the greater part of Western Europe, but foggy over the inland parts of England as well as in Sweden.  
 Dull in Ireland and the west of Scotland with rain in the Hebrides.  
 Since yesterday morning, 0.8 in. of rain has fallen at Belmullet, 0.9 in. at Buncrana, 1.5 in. at Stornoway and Mullaghmore and 1.6 in. at Valencia Island.

## SEA

High at Valencia Island, and rather rough off our southern coast generally, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The deep depression off the west of Ireland will probably travel northwards, and the gale in the extreme west is likely to extend to all our western and northern coasts. The weather over the eastern and southeastern parts of the Kingdom is scarcely likely to be affected at present.

# FORECASTS

For the 24 hours ending at NOON on 6<sup>th</sup> OCT. 1891.

## DISTRICTS.

## FORECASTS.

## DISTRICTS.

## FORECASTS.

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

S<sup>W</sup> winds, increasing to a gale; fair to squally and some rain.  
 Same as No 5  
 SE<sup>W</sup> winds, light to fresh; fair generally.

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

## WARNINGS

S<sup>W</sup> winds, increasing to a gale; dull, squally, some rain.  
 S<sup>W</sup> winds, increasing in force; fair to squally and showery.  
 SE<sup>W</sup> to S<sup>W</sup> strong winds and gales; squally, rainy.  
 The SOUTH CONE was hoisted last evening in districts 0, 6, 10, and part of 9, and this morning in 1, 7, part of 8 and remainder 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 ...	30.17	56	55	SSW	6	0	5		Holyhead ...	30.07	60	SW	5	60	5
Sumburgh Head									Valencia ...						
Stornoway ...	29.83	53	53	W	4	7	4		Scilly ...						
Aberdeen ...									Jersey ...	30.21	64	SE	3	6	3
Shields ...									Dungeness ...	30.22	60	NE	1	6	0
Ardrossan ...									London ...						*
Malin Head ...	29.84	54	54	S	4	0	3		Yarmouth ...						
Mullaghmore ...									Rochefort ...	30.12	69	ESE	4	6	*
Belmullet ...	29.85	51	50	SSW	2	7	*								

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

*Weather* in morning fine and bright over Spain, France, the Netherlands and greater part of England as well as over many parts of Sweden, Russia and Germany, cloudy over the Mediterranean, dull and unsettled in the west and north of the British Islands, and in Norway. Rain reported at Breslau and Memel also. Heavy rain later in the extreme west and northwest of our Islands, (1.5 ins. at Valencia and Mullaghmore, 0.8 in. at Belmullet) none over the more eastern part of our Islands, but a little in Sweden.

*Temperature* changing irregularly. Morning readings still exceeding 70° at Malta, Palermo and Brindisi, and 50° to 58° in Ireland and Scotland, much lower elsewhere, below 50° over the inland parts of England, France and Russia and as low as (1) 37° to 39° over the northern parts of Sweden, (2) 36° at Moscow, 38° at Riga, 42° at Warsaw, (3) 39° at Paris, 47° at Lyons, and (4) 46° at Oxford, 47° at Cambridge, 48° in London and at York. Rising to 60° and more over England later and to 70° and more in the southwest of France.

*Wind* very light and anticyclonic, over Russia and central Europe as a whole; E<sup>ly</sup> light, on the northern shores of the Mediterranean, E<sup>ly</sup> to SE<sup>ly</sup>, moderate, over the Bay of Biscay, S<sup>ly</sup> over the greater part of the United Kingdom and Norway, and fresh to strong at the western stations. Increasing to a gale at Valencia Island later, but remaining light over our eastern counties.

*Barometer* highest 30.3 ins. and more to 30.2 ins. in an anticyclone over Germany and France, and 30.4 ins. in another over Russia. Lowest 29.7 ins. and less off the coast of Finmark and to the northwest of our Islands. 30.0 ins. and less over Corsica, Sardinia and northern Italy. Falling slowly over the United Kingdom and Bay of Biscay all day, but most in the west and southwest. Depressions advancing from outside our extreme western coasts.

### SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 27<sup>th</sup> SEPT. TO 3<sup>rd</sup> OCT. 1891.

The weather experienced over our Islands last week was mostly fair in the eastern and southern districts but cloudy and unsettled in the west and north, with frequent rain. Temperature was rather below the average, with slight ground frosts over England during the last day or two of the period.

At the commencement of the week a large barometrical depression was travelling away in a northeasterly direction from our northern coasts and on the 27<sup>th</sup> a well marked anticyclone appeared over France and Germany, its northwestern edge spreading as far as the east and southeast of England. The weather in the latter regions was therefore mostly fair and dry but in the west and north the conditions were influenced by fresh depressions which continued to advance from the Atlantic and which moved northwards outside our northwestern and northern coasts. Strong winds from the S<sup>W</sup> or S<sup>W</sup> were therefore experienced in Ireland and Scotland, with heavy rain in some districts and a rough sea on the coasts.

On the 1<sup>st</sup> October a shallow secondary disturbance travelled in a east-northeasterly direction across the southern parts of England and occasioned considerable falls of rain in some parts of our south and southeastern counties. In the rear of this, however, the barometer rose briskly and on the concluding days of the week a large anticyclone advanced from the Atlantic over France and the southern parts of our Islands where the weather became fine and bright. Depressions were still skirting our extreme northwest coasts and on the night of the 3<sup>rd</sup> October a strong S<sup>W</sup> gale prevailed in the extreme western parts of Ireland and Scotland.

### EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

**WEATHER.**—Beaufort Scale is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.  
\* AN ASTERISK is inserted in all places for which information is not usually received.

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

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„ Weekly „ „ „ „ £1 10 0 „



# DAILY WEATHER REPORT.

for Tuesday 6<sup>th</sup> October.

1891.

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

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.			
	Reading at 32° F. and Sea Level.	Dry.	Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.	Haparanda ...	30.23	45	SW	2	6	30.27	+06	47	46	+9	SW	4	0	•	48	32	—
	Hernösand ...	30.28	46	S	4	6	30.27	+01	45	44	+5	2	0	0	•	55	34	—
	Stockholm ...	30.27	45	S	2	0	30.27	-02	51	50	+7	E	2	C	•	55	37	—
	Wisby ...	30.22	45	ENE	3	6	30.15	-06	54	51	+9	ENE	4	6	•	55	37	—
	Bodö ...	30.01	47	2	0	0	30.05	+01	51	50	-2	E	2	6	0	55	43	—
	Christiansund	29.77	51	N	2	6	29.82	-20	55	49	+4	SE	2	6	2	57	34	—
	Skudesnaes ...	29.77	55	SE	4	6	29.78	-35	56	51	+2	SE	8	C	5	53	54	—
	Christiania Fjord (Færdar)	30.12	54	NNE	2	0	30.05	-11	52	50	+1	ENE	5	0	3	53	48	—
	Skagen (The Scaw)	30.06	53	SE	4	C	29.78	-20	53	52	+2	SE	5	0	2	57	51	0.08
	Fanö ...	29.98	50	ENE	4	6	29.84	-36	51	50	+1	ENE	4	6	•	53	48	—
BRITISH ISLANDS.	Sumburgh Head	29.63	52	ENE	5	0	29.32	-44	53	52	0	SE	8	0	8	58	47	—
	Stornoway ...	29.24	54	S	6	0	29.52	-66	52	52	+1	S	4	0	5	55	50	1.00
	Wick ...	29.52	53	S	8	0	29.10	-68	53	53	-1	S	9	0	8	57	52	—
	Nairn ...	29.40	53	SW	1	C	29.01	-77	54	52	-1	SE	8	0	2	66	52	0.02
	Aberdeen ...	29.57	53	SE	8	C	29.17	-67	52	51	-1	SE	8	0	8	55	52	0.11
	Leith ...	29.52	55	SE	2	0	29.06	-78	54	52	+3	S	5	7	•	55	50	0.01
	Shields ...	29.63	58	SE	4	0	29.22	-72	54	52	+4	SE	5	7	4	57	46	0.01
	Spurn Head ...	29.68	57	ENE	6	6C	29.38	-60	56	54	+1	ENE	7	0	5	58	52	—
	York ...	29.67	58	ENE	3	0	29.29	-65	54	53	+8	ENE	4	7	•	62	44	—
	Loughborough	29.67	56	NE	4	0	29.28	-67	56	55	+12	SE	5	7	•	63	44	0.11
GERMANY & HOLLAND.	Ardrossan ...	29.41	56	SE	4	0	29.96	-80	55	55	0	SE	4	7	4	57	53	0.28
	Malin Head ...	29.06	53	SE	7	0	29.91	-64	48	47	-6	S	3	0	2	56	46	0.28
	Mullaghmore ...	29.56	55	SE	7	7	29.92	-61	49	46	-8	S	4	0	3	59	48	0.56
	Belmullet ...	29.86	55	S	8	0	29.88	-47	45	46	-6	SW	3	C	•	56	49	1.10
	Donaghadee ...	29.36	57	S	7	0	29.56	-78	54	54	-1	S	3	7	2	58	52	0.72
	Liverpool (Bidston)	29.54	55	SE	5	C	29.10	-80	55	55	+7	SE	6	C	4	58	48	0.09
	Holyhead ...	29.45	55	ENE	6	C	29.03	-78	56	55	+2	SW	6	C	6	60	53	0.35
	Parsonstown ...	29.09	56	SE	4	7	29.55	-62	48	47	-7	2	0	C	•	55	47	0.68
	Valencia ...	29.54	57	S	9	7	29.56	-46	48	46	-8	SE	3	C	4	58	44	1.71
	Roche's Point...	29.67	57	S	5	7	29.63	-58	52	50	-5	SW	3	C	5	58	48	1.15
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.41	58	S	8	0	29.09	-71	55	56	+1	SW	6	C	8	55	55	0.74
	Scilly ...	29.40	58	SE	7	7	29.15	-62	55	56	0	SW	4	C	5	60	54	1.03
	Prawle Point ...	29.61	57	SE	5	C	29.23	-65	55	55	-2	SW	5	7	5	59	54	0.92
	Jersey (St. Aubin's)	29.72	60	SE	4	6	29.42	-52	61	58	+10	SE	7	0	5	61	50	0.04
	Hurst Castle ...	29.73	57	SW	4	C	29.40	-54	58	58	+2	S	8	7	4	59	55	0.21
	Dungeness ...	29.77	55	S	3	C	29.58	-44	55	56	+10	SW	6	C	5	62	57	—
	London ...	29.73	56	SE	3	0	29.40	-53	55	55	+10	SW	3	0	•	61	46	0.02
	Oxford ...	29.66	54	SE	3	0	29.35	-62	56	55	+14	SE	4	7	•	55	41	0.08
	Cambridge ...	29.73	56	ENE	1	0	29.42	-55	57	56	+9	SE	3	0	•	65	46	—
	Yarmouth ...	29.78	57	NE	6	6	29.53	-48	58	55	+7	SE	6	6	5	59	55	—
GERMANY & HOLLAND.	Cuxhaven ...	30.03	52	ENE	3	6	29.92	-30	49	48	-1	SE	4	6	•	60	46	—
	Berlin ...	30.06	54	E	4	6	29.57	-23	50	49	-1	SE	2	6	•	61	46	—
	Wiesbaden ...	30.02	55	S	3	6	29.55	-13	50	50	0	2	0	6	•	61	45	—
	Munich ...	30.02	55	SW	3	6	30.05	-01	48	47	0	S	2	6	•	58	41	—
	The Helder ...	29.88	57	ENE	1	6	29.71	-41	52	50	-1	SE	3	6	3	59	52	—
	Brussels (9 a.m.)	*	*	*	*	*	29.78	-41	55	52	+5	SE	4	6	•	65	46	—
	Cape Gris Nez	29.75	56	SE	1	6	29.58	-41	55	50	+5	S	5	C	5	64	50	—
	Paris ...	29.86	60	ENE	2	6	29.75	-25	52	49	-2	SE	3	6	•	66	49	—
	Brest ...	29.73	61	S	4	0	29.45	-46	?	?	?	SW	7	0	7	64	52	—
	Lorient ...	29.73	61	S	4	0	29.45	-46	?	?	?	SW	7	0	7	64	52	—
FRANCE AND BELGIUM.	Rocheport ...	29.81	61	SW	3	6	29.63	-30	55	55	+10	SE	5	C	•	77	52	—
	Belfort ...	29.81	50	N	2	C	29.63	-30	55	46	0	N	1	6	•	66	41	—
	Lyons ...	30.04	60	SE	4	C	30.06	+03	55	53	-2	E	2	6	1	66	54	0.16
	Nice ...	29.92	63	S	2	6	29.51	-48	54	54	+3	2	0	6	•	72	51	—
	Perpignan ...	29.81	64	E	3	6	29.71	-18	64	60	+11	SW	5	6	2	72	?	—
	Biarritz ...	29.81	64	E	3	6	29.71	-18	64	60	+11	SW	5	6	2	72	?	—
	Corunna ...	29.96	63	SW	3	6	29.91	-05	64	63	+4	S	4	0	5	68	?	—
	Lisbon ...	29.96	63	SW	3	6	29.91	-05	64	63	+4	S	4	0	5	68	?	—
	Corunna ...	29.96	63	SW	3	6	29.91	-05	64	63	+4	S	4	0	5	68	?	—
	Lisbon ...	29.96	63	SW	3	6	29.91	-05	64	63	+4	S	4	0	5	68	?	—



# WEATHER CHARTS

for 8 a.m. on Tuesday, 6<sup>th</sup> OCTOBER 1891.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP

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

Changes since previous morning are stated in words.

**WIND**—Arrows show the prevalent winds. They fly with the wind and

their barbs and feathers refer to force thus—

— forces above 10; — forces 8 to 10;

— forces 5 to 7; — forces 1 to 4.

○ = dead calm.

**SEA DISTURBANCE**—Where considerable, is shown thus:

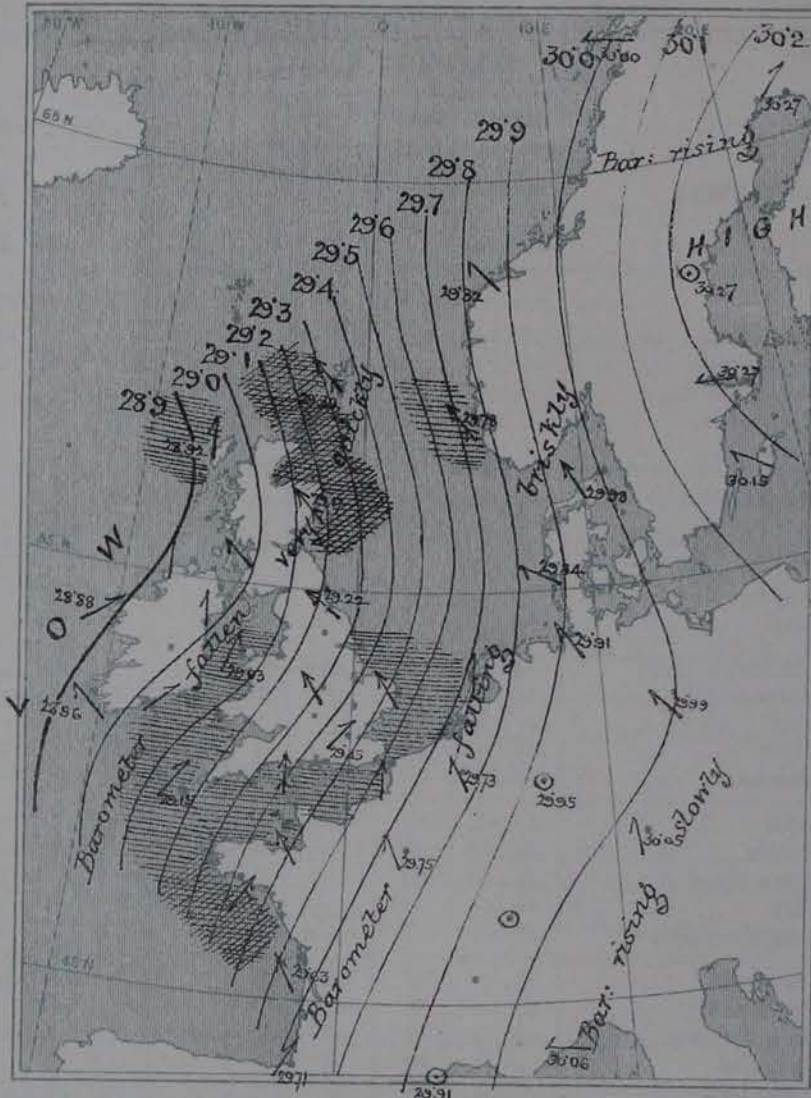
— = Rough. — = High.

## MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of October

During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.726
Stornoway	29.756
Wick	29.763
Nairn	29.779
Aberdeen	29.793
Leith	29.822
Shields	29.846
Spurn Head	29.867
York	29.882
Loughborough	29.904
Ardrossan	29.831
Mullaghmore	29.845
Donaghadee	29.850
Holyhead	29.872
Liverpool	29.879
Parsonstown	29.897
Valencia	29.896
Roche's Point	29.892
Pembroke	29.888
Scilly	29.910
Prawle Point	29.931
Jersey	29.925
Hurst Castle	29.922
Dover	29.916
LONDON	29.923
Oxford	29.924
Cambridge	29.912
Yarmouth	29.894



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

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

**WEATHER**—is shown by Letters of the Beaufort Scale.

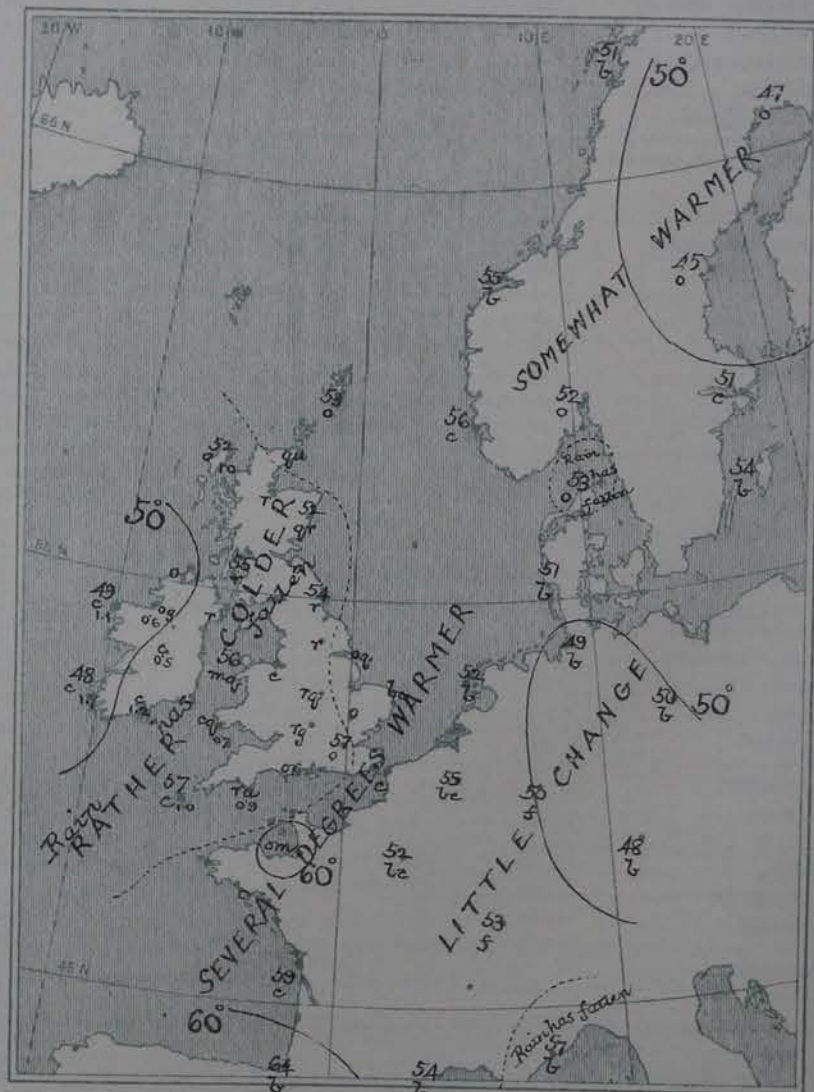
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of October.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	49.8	41.6	46.0	44.3	4.27
Stornoway .....	51.0	40.5	45.6	44.5	5.04
Wick.....	51.7	40.5	46.3	44.6	3.02
Nairn .....	51.9	40.8	44.8	42.9	2.38
Aberdeen .....	52.5	41.4	45.6	43.6	2.87
Leith .....	54.7	41.8	46.7	44.9	1.97
Shields .....	53.2	42.7	47.2	45.4	2.48
Spurn Head.....	53.3	45.7	48.8	47.3	2.27
York .....	54.5	41.4	45.9	44.5	2.60
Loughborough .....	53.7	41.1	45.9	44.0	2.80
Ardrossan .....	53.7	43.7	47.8	45.8	3.87
Mullaghmore .....	54.2	45.7	49.1	46.9	4.75
Donaghadee.....	53.6	43.6	47.8	46.6	3.14
Holyhead .....	54.7	47.3	50.3	48.3	4.31
Liverpool.....	53.8	44.7	47.8	45.8	3.46
Parsonstown .....	54.8	41.0	46.2	44.5	3.16
Valencia .....	56.6	46.8	51.4	49.2	5.88
Roche's Point .....	56.0	46.1	50.2	48.3	4.09
Pembroke.....	54.9	48.0	51.2	49.2	3.96
Scilly .....	56.6	50.2	53.7	51.6	3.70
Prawle Point .....	56.7	48.2	51.2	49.6	3.60
Jersey .....	58.2	48.6	53.3	50.7	4.45
Hurst Castle .....	57.1	45.8	50.8	49.2	3.28
Dover .....	56.1	46.2	50.2	48.2	3.22
LONDON .....	56.7	42.7	47.5	45.9	2.57
Oxford .....	55.5	42.2	46.2	44.9	2.56
Cambridge .....	56.5	41.0	46.4	45.3	2.27
Yarmouth .....	54.3	44.6	49.0	47.6	2.92

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.





## GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.2 ins. and more to 30.0 ins. over Finland and Sweden; and 30.0 ins. and more over the southeastern part of France.  
Lowest, 28.9 ins. and less, off the northwest of Ireland.  
Gradients steep in the east and south, moderate in the west.  
Barometer still falling generally, but unequally in the west. Valencia <sup>del</sup> reports a fresh fall during the night.

## TEMPERATURE

Haiphong (?) 65° at Lorient, 64° at Bhamitz, 61° at Jersey, 57° at Sally and in London.

Lowest, 45° at Heröesand, 47° at Haparanda, 48° at Munich, 49° at Cuxhaven

It has risen  $10^{\circ}$  to  $14^{\circ}$  over Central England since yesterday and the air is close and damp.

## WIND

SE<sup>3</sup> over the northern, and S<sup>3</sup> to SW<sup>3</sup> over the southern part of western Europe. It is blowing a gale on the Scotch coast, and a strong breeze on the English coast generally, but the gales in the west have all died down.

## WEATHER

Very cloudy and unsettled generally with rain at many ~~at many~~ English and Scotch stations. The fall in the northwest, west and southwest of our Islands yesterday was very heavy (0.6 in. to 1.7 in.).

## SEA

Very high on the northeast coast of Scotland, rough on our other coasts, high at Orient


### PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The large and deep depression which reached our western coasts yesterday, appears to be travelling away to the northward, after spreading all over the British Islands and their neighbourhood. The southerly gales have spread to Scotland, but have died down in the west and the weather has become unsettled everywhere, and a renewed fall of the barometer at Valencia Island, accompanied by a SE<sup>E</sup> wind seems to show that further disturbances are approaching.

## FORECASTS

For the 24 hours ending at NOON on 7<sup>TH</sup> OCT<sup>R</sup> 1891.

DISTRICTS.		FORECASTS.	DISTRICTS.		FORECASTS.
1	0 { SCOTLAND NORTH	} S <sup>2</sup> winds, moderating; rainy then finer, but not at all settled.	1	6 { SCOTLAND WEST	} S <sup>2</sup> winds, force doubtful; unsettled, rain at times.
1	1 { SCOTLAND EAST		1	7 { ENGLAND N.W.	
2	2 { ENGLAND N.E.	} Same as No 5	1	8 { ENGLAND S.W.	} Same as No 5
3	3 { ENGLAND EAST		1	9 { IRELAND NORTH	
4	4 { MIDLAND COUNTIES		1	10 { IRELAND SOUTH	
5	5 { ENGLAND SOUTH				
			WARNINGS		The S. CONE is still flying 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 (41), 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 ...	28.06	55	54	SE	6	bc	4	Holyhead ...	27.61	60	53	SE	6	bcg	5
Sumburgh Head ...	27.72	53	52	S	4	c	4	Valencia ...	27.11	57	57	SE	9	tm	7
Stornoway ...	27.43	53	53	S	6	o	5	Scilly ...	27.56	58	56	SE	8	c	3
Aberdeen ...	27.70	54	57	SE	7	cg	6	Jersey ...	27.80	61	56	SE	8	c	1
Shields ...	27.73	55	52	SE	4	cm	3	Dungeness ...	27.86	60	55	S	2	c	1
Ardrossan ...	27.55	54	53	SE	4	o	4	London ...	27.82	61	57	SE	4	o	*
Malin Head ...	27.23	55	57	SE	5	o	4	Yarmouth ...	27.87	57	56	SE	5	6	4
Mullaghmore ...	27.18	57	52	SE	5	ogp	6	Rocheport ...	27.88	67	60	SE	3	6	*
Belmullet ...	27.07	55	54	SE	5	o	*								

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

Weather in morning dull over Ireland, the Irish Sea, and the west of Scotland, with rain in the Hebrides. Dull also over the greater part of Germany, Austria, and the south of Italy, but fine in most other countries. Foggy over the inland parts of England as well as over Finland, Sweden, and the Baltic Provinces. Dull weather spreading later to all parts of the United Kingdom, and very heavy rain falling on our western coasts, the largest amounts being 1.7 in. at Valencia Island and 1.2 in. at Rocheport.

Temperature highest 76° at Malta, 71° at Brindisi and La Cella, and 68° at Palma and Algiers; above 60° over the Adriatic and Mediterranean generally, as well as on the coasts of the Iberian Peninsula; above 55° in the south and southeast of our Islands. Lowest (1) 36° at Moscow, 37° at Ulesborg and Kuopio, and 38° at Haparanda and St Petersburg (below 45° at most of the Russian and Swedish stations); (2) 42° at Oxford, 44° at Loughborough and 46° at York. Daily maxima below 60° in Ireland and Scotland, but thermometer rising to between 60° and 65° over the inland parts of England.

Wind S<sup>W</sup> or SE<sup>W</sup> over our Islands and the west of Norway, fresh or strong in force on our western coasts, with a gale at Valencia Island. Light from the E<sup>W</sup> or SE<sup>W</sup> over the Baltic, Germany, the Netherlands, France and Spain. Calm in Sweden, light and variable in Russia and also in Algeria, chiefly N<sup>W</sup> in Italy. Subsequently increasing to a strong or whole gale from the SE<sup>W</sup> or S<sup>W</sup> in all the more western and northern parts of the United Kingdom.

Barometer highest 30.4 in. and upwards over Central Russia, 30.0 in. and upwards, in a large anticyclone covering the whole of northern, eastern, and central Europe, and extending S<sup>W</sup> over Italy and the eastern parts of the Mediterranean. Lowest, 29.4 in. and less, in a large and deep depression lying to the westward of our Islands. Depression subsequently advancing northwards, barometer falling locally in all parts of Western Europe, and rapidly on our western coasts, and gradients becoming very steep over Ireland and the neighbouring Channels.

### EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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# DAILY WEATHER REPORT.

for Wednesday, 7<sup>th</sup> October, 1891.  
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
	Reading at 32° F. and Sea Level.	Dry.	Direc.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ...	30.32	45	SW	4	0	30.26	-01	44	43	-3	S	2	b	*	50	43	-	
Hernösand ...	30.23	48	Z	0	1	30.21	-06	50	49	+5	S	4	c	*	50	41	-	
Stockholm ...	30.21	52	SE	2	0	30.18	-09	53	51	+2	ESE	2	b	*	59	43	-	
Wisby ...	30.09	55	SE	4	0	30.07	-08	55	53	+1	SE	4	b	*	63	41	-	
Bodö ...	30.04	48	E	2	0	29.95	-10	53	47	+2	E	2	bc	1	55	43	-	
Christiansund	29.71	53	SE	6	0	29.68	-14	59	51	+4	SE	7	0	2	59	?	-	
Skudesnaes ...	29.62	60	SE	8	0	29.57	-21	58	55	+2	SSE	8	f	6	59	55	-	
Christiania Fjord (Færd)	29.95	55	ESE	5	0	29.95	-10	54	53	+2	ESE	5	c	4	55	52	-	
Skagen (The Seaw)	29.89	56	SSE	5	0	29.86	-12	56	54	+3	SSE	6	0	4	?	53	-	
Fanö ...	29.76	55	ESE	6	0	29.70	-14	55	53	+4	ESE	6	c	*	63	50	-	
BRITISH ISLANDS.																		
Sumburgh Head	29.11	52	SE	8	7	29.26	-06	51	50	-2	SSE	3	0	7	52	48	0.47	
Stornoway ...	28.91	50	S	6	0	29.02	+10	52	51	0	S	7	0	8	53	48	0.50	
Wick ...	29.05	54	S	5	0	29.22	+12	51	50	-2	S	5	bc	6	56	50	0.12	
Nairn ...	28.96	53	S	1	0	29.17	+16	52	50	-2	SW	3	c	1	60	45	0.04	
Aberdeen ...	29.11	54	SSE	6	0	29.29	+12	51	48	-1	S	3	bcq	6	55	49	0.44	
Leith ...	29.08	55	S	1	bc	29.27	+21	50	47	-4	S	2	b	*	59	46	0.14	
Shields ...	29.14	55	SSE	4	op	29.35	+13	50	48	-4	SSE	3	c	3	59	48	0.26	
Spurn Head ...	29.28	57	SSE	6	7	29.45	+07	53	51	-3	SSW	4	bc	4	58	52	0.32	
York ...	29.20	56	S	3	7	29.41	+12	50	49	-4	SSW	2	bc	*	58	47	0.41	
Loughborough	29.24	54	SSW	4	7	29.45	+17	48	47	-8	SE	2	b	*	58	48	1.07	
Ardrossan ...	29.04	55	SSE	4	bc	29.20	+24	53	51	-2	SW	4	7	4	57	50	0.06	
Malin Head ...	28.90	47	S	5	op	29.06	+15	49	47	+1	S	5	0	3	53	45	0.03	
Mullaghmore ...	28.93	48	S	5	bc	29.11	+19	50	45	+1	S	5	c	4	54	47	0.03	
Belmullet ...	28.87	51	S	5	0	29.07	+19	51	47	+2	WSW	4	b	*	53	48	0.23	
Donaghadee ...	29.04	47	SW	3	bc	29.23	+27	51	49	-3	SSW	3	c	1	59	47	0.28	
Liverpool (Bidston)	29.19	53	SSE	2	0	29.38	+28	48	46	-9	SE	3	b	3	58	45	0.06	
Holyhead ...	29.13	54	SW	5	bc	29.31	+28	49	48	-7	SSW	4	mpg	4	58	49	0.51	
Parsonstown ...	29.04	47	Z	0	bc	29.24	+25	48	46	0	Z	0	b	*	54	44	-	
Valencia ...	29.00	53	SSW	5	bcq	29.24	+28	53	50	+5	SW	6	c	5	54	46	0.37	
Roche's Point...	29.00	52	SW	5	bc	29.29	+26	51	49	-1	WSW	4	bc	4	55	47	0.25	
Pembroke (St. Ann's Hd.)	29.17	56	SW	4	c	29.37	+28	54	52	-3	SW	4	cqp	5	58	50	0.10	
Scilly ...	29.21	58	W	6	7	29.43	+28	55	52	+2	SW	6	og	6	60	50	0.15	
Prawle Point ...	29.29	54	SSW	4	0	29.50	+27	55	52	-0	SW	7	c	6	55	49	0.43	
Jersey (St. Aubin's)	29.42	55	WSW	4	7m	29.57	+17	57	57	+1	SW	7	bcqp	4	63	52	1.26	
Hurst Castle ...	29.37	55	W	8	7gm	29.57	+17	57	57	+1	SW	7	bcqp	4	63	52	1.26	
Dungeness ...	29.37	64	SW	6	c	29.57	+02	57	54	-2	WSW	6	cq	4	64	54	0.32	
London ...	29.39	55	SSW	2	or	29.57	+12	54	52	-3	SSE	2	0	*	62	49	0.59	
Oxford ...	29.35	53	S	4	7	29.52	+17	48	47	-8	S	1	b	*	58	48	1.05	
Cambridge ...	29.37	55	S	1	7	29.56	+14	52	51	-5	SW	1	c	*	61	50	0.51	
Yarmouth ...	29.37	62	SSE	7	c	29.54	+01	54	53	-4	SW	4	cm	4	62	53	0.04	
GERMANY & HOLLAND.																		
Cuxhaven ...	29.83	56	SSE	4	b	29.79	-13	55	54	+6	SSE	4	b	*	65	49	0.05	
Berlin ...	29.97	56	SE	2	b	29.97	-02	50	49	0	SE	3	b	*	63	46	-	
Wiesbaden ...	*	*	*	*	*	29.87	-08	53	51	+3	S	1	c	*	64	48	-	
Munich ...	30.02	51	NE	2	b	30.03	-02	47	45	-1	E	2	b	*	63	41	-	
The Helder ...	29.59	60	SSE	3	0	29.61	-10	60	58	+8	SSW	2	0	3	63	52	-	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.)	*	*	*	*	*	29.68	-05	55	52	0	WSW	3	7	*	70	55	-	
Cape Gris Nez	29.43	68	S	6	c	29.59	+01	56	54	+1	SW	5	7	6	70	52	0.24	
Paris ...	29.60	72	S	4	bc	29.77	+02	53	52	+1	WSW	2	7	*	77	52	0.28	
Brest ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lorient ...	29.44	55	SSW	2	7	29.64	+19	58	52	?	SW	6	bc	6	64	52	1.30	
Rochefort ...	29.54	72	SSE	7	c	29.79	+16	56	54	-3	SW	5	c	2	73	52	0.24	
Belfort ...	29.85	62	N	2	bc	29.86	?	55	48	+2	N	2	bc	*	73	?	-	
Lyons ...	29.87	62	S	5	b	29.86	?	64	55	?	SSW	5	c	*	70	58	-	
Nice ...	30.10	60	Z	0	c	30.12	+06	59	54	+2	E	1	b	1	68	54	-	
Perpignan ...	29.84	69	SE	4	b	29.85	-06	66	61	+12	S	3	b	*	81	?	-	
Biarritz ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
PENINSULA.																		
Corunna ...	*	*	*	*	*	30.04	+13	62	59	-2	N	3	c	4	68	61	0.28	
Lisbon ...	29.90	65	SSW	4	0	30.04	+13	62	59	-2	N	3	c	4	68	61	0.28	

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

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



# WEATHER CHARTS

for 8 a.m. on Wednesday 7<sup>th</sup> October, 1891.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP

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

Changes since previous morning are stated in words.

**WIND**—Arrows show the prevalent winds. They fly with the wind and

their barbs and feathers refer to force thus—

→ forces above 10; → forces 8 to 10;

→ forces 5 to 7; → forces 1 to 4.

— = dead calm.

**SEA DISTURBANCE**—Where considerable, is shown thus:

▨ = Rough. ▨ = High.

## MEAN HEIGHT OF THE BAROMETER

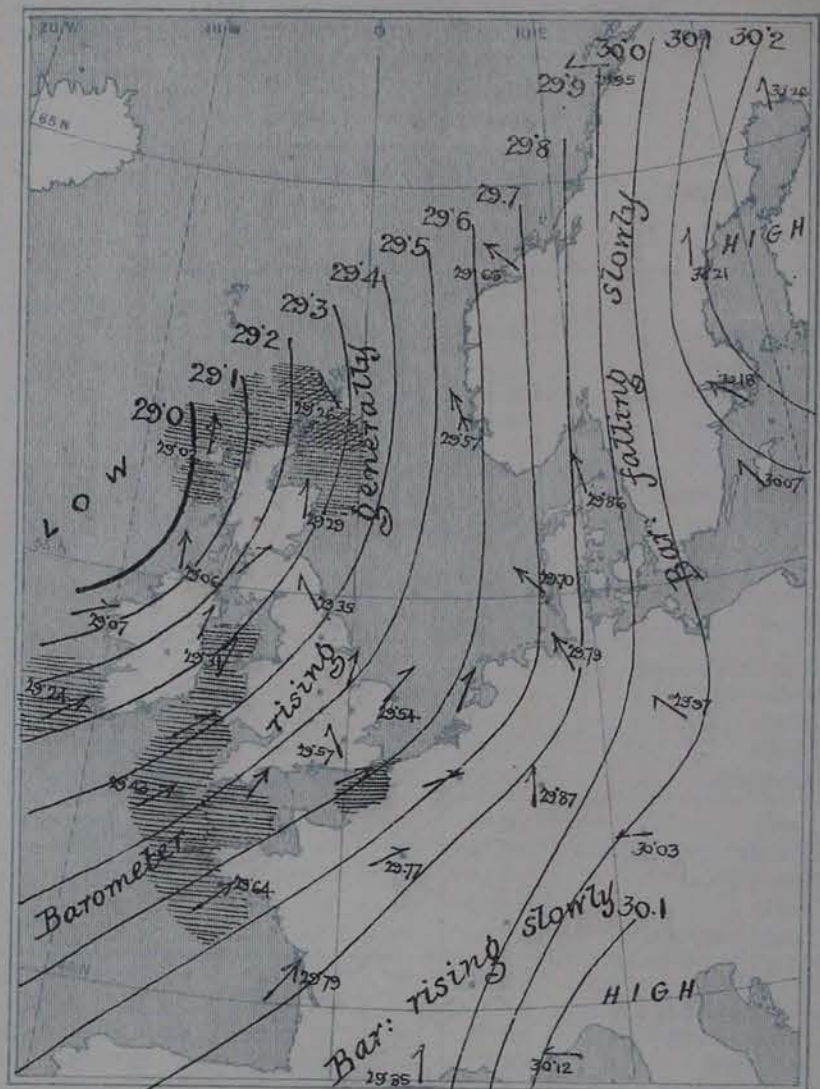
at 8.0 a.m. for the month of October

During the 20 Years: 1871—1890.

### STATIONS.

### MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.726
Stornoway	29.756
Wick	29.763
Nairn	29.770
Aberdeen	29.793
Leith	29.822
Shields	29.846
Spurn Head	29.867
York	29.882
Loughborough	29.904
Ardrossan	29.831
Mullaghmore	29.845
Donaghadee	29.850
Holyhead	29.872
Liverpool	29.879
Parsonstown	29.897
Valencia	29.896
Roche's Point	29.892
Pembroke	29.888
Seilly	29.910
Prawle Point	29.931
Jersey	29.925
Hurst Castle	29.922
Dover	29.916
LONDON	29.923
Oxford	29.924
Cambridge	29.912
Yarmouth	29.894



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

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

**WEATHER**—is shown by Letters of the Beaufort Scale.

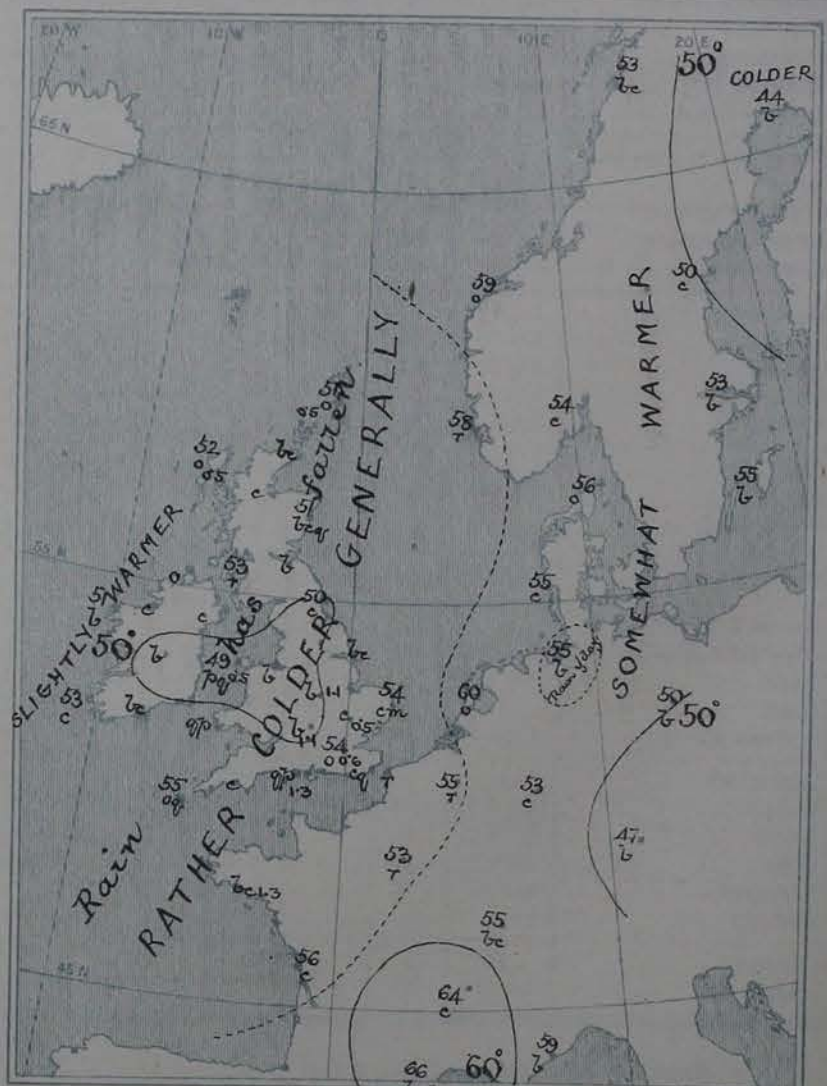
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of October.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry	Wet.	
Sumburgh Head.....	49.8	41.6	46.0	44.3	4.27
Stornoway .....	51.0	40.5	45.6	44.5	5.04
Wick.....	51.7	40.5	46.3	44.6	3.02
Nairn .....	51.9	40.8	44.8	42.9	2.38
Aberdeen .....	52.5	41.4	45.6	43.6	2.87
Leith.....	54.7	41.8	46.7	44.9	1.97
Shields.....	53.2	42.7	47.2	45.4	2.48
Spurn Head.....	53.3	45.7	48.8	47.3	2.27
York.....	54.5	41.4	45.9	44.5	2.60
Loughborough .....	55.7	41.1	45.9	44.6	2.80
Ardrossan .....	53.7	43.7	47.8	45.8	3.87
Mullaghmore .....	54.2	45.7	49.1	46.9	4.75
Donaghadee.....	53.6	43.6	47.8	46.6	3.14
Holyhead.....	54.7	47.3	50.3	48.3	4.31
Liverpool.....	53.8	44.7	47.8	45.8	3.46
Parsonstown .....	54.8	41.0	46.2	44.5	3.16
Valencia.....	56.6	46.8	51.4	49.2	5.88
Roche's Point.....	56.0	46.1	50.2	48.3	4.09
Pembroke.....	54.9	45.0	51.2	49.2	3.96
Seilly.....	56.6	50.2	53.7	51.6	3.70
Prawle Point.....	56.7	46.2	51.2	49.6	3.60
Jersey.....	58.2	48.6	53.3	50.7	4.45
Hurst Castle .....	57.1	45.8	50.8	49.2	3.28
Dover.....	56.1	46.2	50.2	48.2	3.22
LONDON.....	56.7	42.7	47.5	45.9	2.57
Oxford.....	55.5	42.2	46.2	44.9	2.56
Cambridge.....	56.5	41.0	46.4	45.3	2.27
Yarmouth.....	54.3	44.6	49.0	47.6	2.92

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.2 ins: and more to 30.0 ins: over Sweden and apparently still higher over Finland; 30.1 ins: and more to 30.0 ins: over the southeast of France.  
Lowest, 29.0 ins: and less, in a large depression off the west of Scotland.

Gradients moderate over the United Kingdom, France and the North Sea, steep over Scandinavia.

Barometer falling in Norway, rising steadily over the United Kingdom and France.

## TEMPERATURE

Highest, 66° at Perpignan, 64° at Lyons, 62° at Dijon, and 57° at Hunt Castle and Bingen.

Lowest, (1) 44° at Haparanda, 50° at Haparanda; (2) 47° at Munich, 50° at Berlin; (3) 48° at Oxford, Loughboro', Holyhead and Banbury.

The daily maxima in our Islands yesterday exceeded 60° over the southern parts of England only, but in many parts of France the thermometer rose to above 70°, and at Biarritz and Perpignan it exceeded 80°.

## WIND

Blossing hard from SE. in the west of Norway, and strongly from S. or SW. on many parts of our west and southwest coasts. In the northeast and east, however, it is moderate from the SE.

The strong gales noticed on our northern coasts yesterday died down towards night.

## WEATHER

Clear over the British Islands generally, than it was yesterday (clear and bright at several stations), but still in a rather changeable unstable condition generally.

Rainfall yesterday, exceeded an inch at Loughboro', Oxford, Hunt Castle and Dorchester, and amounted to 0.6 in: in London.

## SEA

High in the far north, but decreasing, rough in the west, southwest, and south, moderate in the southeast and south and tending to decrease generally.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The disturbances, large and small, noticed over the British Islands and their neighbourhood yesterday, are all passing away to the northward, and a gradual rise of the barometer is in progress over the British Isles generally. The gales have all died down, but strong and equally breezy from SW. are still reported over the English and Irish Channels. The barometer is rising on all our coasts and no new disturbance is indicated at present—though showery mild weather is still probable.

## FORECASTS

For the 24 hours ending at NOON on 8<sup>TH</sup> OCT<sup>R</sup>

1891.

### DISTRICTS.

### FORECASTS.

- |   |                  |   |
|---|------------------|---|
| 0 | SCOTLAND NORTH   | S <sup>W</sup> winds, strong to moderate; rain at times.                                |
| 1 | SCOTLAND EAST    |   |
| 2 | ENGLAND N.E.     | S <sup>W</sup> winds, moderate; some showers but mostly fair and mild.                  |
| 3 | ENGLAND EAST     |   |
| 4 | MIDLAND COUNTIES | S <sup>W</sup> to S <sup>W</sup> breezes moderate; showers with bright intervals, mild. |
| 5 | ENGLAND SOUTH    |   |
|   |                  | SW <sup>W</sup> winds, moderate, strong in Channel; some showers, but mostly fair.      |

### DISTRICTS.

### FORECASTS.

- |    |               |   |
|----|---------------|---|
| 6  | SCOTLAND WEST | S <sup>W</sup> and SW <sup>W</sup> winds, strong to fresh; showery, bright intervals. |
| 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 ...	29.68	59	54	SE	5	C	6			Holyhead ...	29.10	56	52	SSW	4	C
Sumburgh Head ...	29.17	53	52	SE	9	T	9			Valencia ...	28.98	50	48	S	3	CP
Stornoway ...	28.85	51	51	S	4	T	4			Scilly ...	29.18	58	58	SSW	5	C
Aberdeen ...	29.08	54	53	SSE	8	Og pu	8			Jersey ...	29.37	57	56	H	5	T
Shields ...	29.14	54	57	SSE	5	T	4			Dungeness ...	29.45	62	59	SW	7	C
Ardrossan ...	28.99	57	55	SW	2	C	3			London ...	29.34	62	60	SSE	4	T
Malin Head ...	28.90	53	49	S	4	bc	2			Yarmouth ...	29.44	61	58	S	7	bcq
Mullaghmore ...	28.92	53	48	S	4	C	4			Rochefort ...	29.58	71	63	SSE	7	C
Belmullet ...	28.88	53	49	SSE	4	Op	*									

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

Weather dull and rainy over the greater part of the United Kingdom, but fair in the west of Ireland and the extreme southeast of England, cloudy also at several of the Scandinavian stations and in the western parts of the Spanish Peninsula but fine on the Continent generally. Heavy rain falling during day over the central and southern parts of England and also in the northwest of France, the largest amounts being 1.3 ins. at Hunt Castle and Lorient and 1.1 ins. at Loughborough and Oxford. Lightning seen at some of the western stations at night.

Temperature highest 72° at Barcelona and Palermo, 71° at Algiers, and 70° at Brindisi, above 60° over the Mediterranean and Adriatic generally, as well as on the shores of the Bay of Biscay; above 55° at many of the English stations. Lowest 37° at Archangel, Uleaborg, and Moscow, 38° at St. Petersburg and Helsingfors, and 41° at Riga. Daily maxima very little above 60° in any part of the United Kingdom, and below 55° at many of the Irish stations, but thermometer exceeding 70° in many parts of France, and reaching 81° at Perpignan.

Wind strong from the SE<sup>wd</sup> or S<sup>wd</sup> over the greater part of Western Europe, with a gale in the north and east of Scotland, but light or moderate in force at the Irish stations. Light from the SE<sup>wd</sup> over most of the northern and central countries; calm in the south of Russia; variable in Italy and also in Algeria. Subsequently veering to the SW<sup>wd</sup> or W<sup>wd</sup> in the south of England; gale in Scotland subsiding towards evening.

Barometer highest 30.5 ins. to 30.6 ins. in a large anticyclone lying over northern and central Russia. Lowest 28.9 ins. and less, in a large depression of somewhat irregular form lying to the westward of the United Kingdom; gradients steep over the whole of Western Europe. Small secondary disturbance appearing later over England, but barometer beginning to rise again at all our more western and southern stations.

### EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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

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

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

„ Weekly „ „ „ £1 10 0 „



# DAILY WEATHER REPORT.

for *Thursday, 8<sup>th</sup> October, 1891.*  
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 4.)	SHADE TEMP.		Amount of Rainfall.	
	Reading at 32° F. and Sea Level.	Dry.	Direc.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...	30.20	48	2	0	bc	30.14	-12	48	47	+4	SW	2	0	*	45	41	-
	Hernösand ...	30.14	51	S	2	f	30.11	-10	51	50	+1	SSE	2	0	*	54	39	-
	Stockholm ...	30.15	51	SE	2	b	30.08	-10	55	53	+2	SE	2	0	*	61	48	-
	Wisby ...	30.04	55	SSE	4	b	30.01	-06	56	55	+1	SSE	4	0	*	63	50	-
	Bodö ...	29.90	53	E	2	b	29.86	-09	54	49	+1	E	2	0	1	55	46	-
	Christiansund	29.62	60	ESE	6	0	29.74	+06	57	53	-2	NE	4	0	3	61	54	-
	Skudesnaes ...	29.68	55	SSE	8	r	29.79	+22	54	49	-4	SE	6	0	4	59	52	1.14
	Christiania Fjord (Fæder)	29.88	57	E	5	c	29.81	-14	55	54	+1	WSW	3	0	3	57	54	0.43
	Skagen (The Scaw)	29.81	57	S	6	0	29.84	-02	54	54	-2	WSW	1	0	0	59	54	0.20
	Fanö ...	29.82	56	2	0	0	29.87	+17	55	54	0	SSW	1	0	*	64	54	0.08
BRITISH ISLANDS.	Sumburgh Head	29.35	50	SSE	3	bc	29.51	+25	51	50	0	SSE	3	0	5	54	42	-
	Stornoway ...	29.20	53	SW	6	bc	29.36	+34	50	50	-2	SW	6	bc	6	54	47	0.85
	Wick ...	29.31	54	S	4	c	29.47	+25	51	49	0	S	5	bc	3	58	49	-
	Nairn ...	29.30	50	SW	1	b	29.48	+31	50	48	-2	SW	1	bc	1	57	45	-
	Aberdeen ...	29.42	51	S	3	c	29.60	+31	50	48	-1	S	2	bw	3	56	45	0.04
	Leith ...	29.42	54	SSE	2	b	29.61	+34	50	47	0	S	1	b	*	58	46	0.01
	Shields ...	29.49	53	S	3	c	29.66	+31	45	44	-5	SSW	3	m	2	58	42	-
	Spurn Head ...	29.59	56	S	4	b	29.74	+29	50	49	-3	SSW	3	bc	3	60	48	-
	York ...	29.55	53	SW	2	c	29.73	+32	44	44	-6	ESE	1	f	*	59	41	0.03
	Loughborough	29.58	54	SW	1	0	29.73	+28	48	47	0	SW	2	bw	*	62	47	0.20
GERMANY & HOLLAND.	Ardrossan ...	29.37	54	S	3	bc	29.57	+37	52	51	-1	S	3	c	3	57	50	-
	Malin Head ...	29.24	51	S	5	bc	29.43	+37	47	45	-2	S	5	bc	3	55	45	-
	Mullaghmore ...	29.28	52	S	6	c	29.48	+37	49	46	-1	S	5	c	4	55	47	0.01
	Belmullet ...	29.25	52	WSW	5	bp	29.42	+35	52	49	+1	SSW	2	0	*	54	49	0.15
	Donaghadee ...	29.39	51	SSW	2	bc	29.60	+37	47	46	-1	SSW	3	0	1	59	44	-
	Liverpool (Bidston)	29.54	50	S	2	c	29.71	+33	47	45	-1	SSE	2	b	2	56	43	0.02
	Holyhead ...	29.47	53	SW	4	cg	29.65	+34	52	50	+3	SW	2	cp	3	57	49	0.10
	Parsonstown ...	29.41	50	2	0	b	29.56	+32	47	46	-1	2	0	c	*	57	43	-
	Valencia ...	29.43	53	WSW	5	c	29.47	+23	54	52	+1	SSE	5	op	5	56	49	0.10
	Roche's Point...	29.46	53	WSW	3	b	29.57	+28	55	52	+4	SW	5	c	4	55	48	0.15
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.52	51	SW	4	c	29.69	+32	56	53	+2	SSW	4	bcyp	4	58	50	0.19
	Scilly ...	29.55	51	SW	3	cp	29.70	+27	55	53	0	S	4	c	6	59	48	0.35
	Prawle Point ...	29.62	55	SSW	6	0	29.81	+31	55	53	0	SW	4	bc	3	56	49	0.19
	Jersey (St. Aubin's)	29.67	57	SW	6	cg	29.83	+26	55	54	-2	W	3	bc	2	59	49	0.42
	Hurst Castle ...	29.67	57	SW	6	cg	29.83	+26	55	54	-2	W	3	bc	2	59	49	0.42
	Dungeness ...	29.71	59	WSW	6	qp	29.81	+24	58	55	+1	W	4	bc	3	61	53	0.24
	London ...	29.72	54	SW	3	op	29.82	+25	50	49	-4	SW	2	bw	*	62	45	0.30
	Oxford ...	29.68	51	SSW	2	0	29.80	+28	49	47	+1	SW	2	b	*	58	46	0.04
	Cambridge ...	29.69	55	SW	1	b	29.82	+26	50	50	-2	S	1	0	*	61	46	0.11
	Yarmouth ...	29.67	54	SSW	4	bc	29.77	+23	52	51	-2	SW	3	b	3	61	48	0.41
PENIN- SULA.	Cuxhaven ...	29.78	54	W	3	0	29.92	+13	50	49	-5	S	2	bc	*	68	48	-
	Berlin ...	29.93	60	SE	2	bc	29.95	-02	56	55	+6	NW	2	0	*	66	50	-
	Wiesbaden ...	*	*	*	*	*	30.00	+13	54	54	+1	2	0	r	*	66	52	0.39
	Munich ...	29.99	52	SSE	2	b	30.01	-02	46	46	-1	W	3	0	*	68	39	-
	The Helder ...	29.83	53	S	1	b	29.86	+25	49	48	-11	S	1	b	1	61	46	0.12
	Brussels (8 a.m.)	*	*	*	*	*	29.91	+23	52	50	-3	S	2	b	*	60	47	0.04
	Cape Gris Nez	29.73	58	SW	4	r	29.80	+21	55	53	-1	SW	5	r	5	61	50	0.28
	Paris ...	29.89	51	S	2	0	29.97	+20	51	50	-2	S	2	bc	*	57	50	0.32
	Brest ...	?	54	WSW	5	c	?	?	57	54	+1	SW	4	0	6	57	52	0.16
	Lorient ...	29.72	59	SSW	5	0	29.89	+25	58	53	0	SW	3	c	6	63	54	0.32
FRANCE AND BELGIUM.	Rochefort ...	29.88	61	SW	5	c	29.96	+17	59	55	+3	WSW	3	bc	*	73	54	0.20
	Belfort ...	29.90	59	W	2	r	30.05	+19	51	46	-4	WSW	2	0	*	65	41	0.20
	Lyons ...	29.97	52	N	2	r	30.07	+21	49	48	-15	W	1	b	*	67	48	2.14
	Nice ...	30.06	61	SW	1	c	29.88	-24	57	56	-2	ESE	4	b	4	68	55	-
	Perpignan ...	29.93	66	W	3	0	30.05	+20	58	51	-8	NW	2	b	*	78	46	-
	Biarritz ...	29.95	61	SE	3	b	30.01	+10	59	52	+2	S	2	c	4	68	54	-



# WEATHER CHARTS

for 8 a.m. on Thursday, 8<sup>th</sup> October, 1891.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP

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

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their barbs and feathers refer to force thus—

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

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≡ = Rough. ≡ = High.

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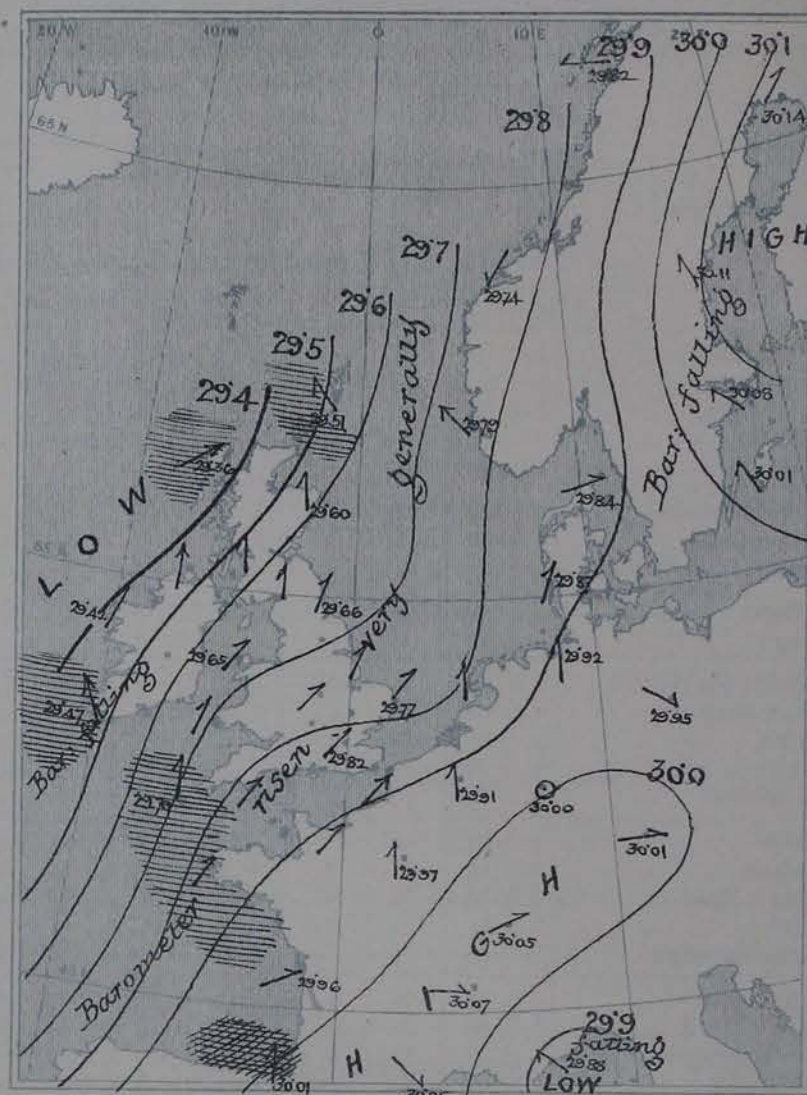
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During the 20 Years: 1871-1890.

### STATIONS.

### MEAN READINGS.

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Ardrossan	29.921
Mullaghmore	29.945
Donaghadee	29.960
Holyhead	29.972
Liverpool	29.979
Parsonstown	29.987
Valencia	29.996
Roche's Point	29.992
Pembroke	29.988
Scilly	29.910
Prawle Point	29.931
Jersey	29.925
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(For the month of October.)

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	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	49.8	41.6	46.0	44.3	4.27
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Wick.....	51.7	40.5	46.3	44.6	3.02
Nairn.....	51.9	40.8	44.8	42.9	2.38
Aberdeen.....	52.5	41.4	45.6	43.6	2.87
Leith.....	54.7	41.8	49.7	44.9	1.97
Shields.....	53.2	42.7	47.2	45.4	2.48
Spurn Head.....	53.3	45.7	48.3	47.3	2.27
York.....	54.5	41.4	45.9	44.6	2.60
Loughborough.....	55.7	41.1	45.9	44.6	2.80
Ardrossan.....	53.7	43.7	47.8	45.8	3.87
Mullaghmore.....	54.2	45.7	49.1	46.9	4.75
Donaghadee.....	53.6	43.6	47.8	46.6	3.14
Holyhead.....	54.7	47.3	50.3	48.3	4.31
Liverpool.....	53.8	44.7	47.8	45.8	3.46
Parsonstown.....	54.8	41.0	46.2	44.6	3.16
Valencia.....	56.6	46.8	51.4	49.2	5.89
Roche's Point.....	56.0	46.1	50.2	48.3	4.09
Pembroke.....	54.9	48.0	51.2	49.2	3.96
Scilly.....	56.6	50.2	53.7	51.6	3.70
Prawle Point.....	56.7	49.2	51.2	49.6	3.60
Jersey.....	58.2	48.6	53.3	50.7	4.45
Hurst Castle.....	57.1	45.8	50.8	49.2	3.28
Dover.....	56.1	46.2	50.2	48.2	3.22
LONDON.....	56.7	42.7	47.5	45.9	2.57
Oxford.....	55.5	42.2	46.2	44.9	2.56
Cambridge.....	56.5	41.0	46.4	45.3	2.27
Yarmouth.....	54.3	44.6	49.0	47.6	2.92

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.1 in. and more to 30.0 in. over the Gulf of Bothnia and Sweden, 30.0 in. and more over Spain and Central France.  
 Lowest, 29.4 in. and less to the northward of the Hebrides, and 29.5 in. and less, over the southwest of Ireland.  
 Gradients moderate.  
 Barometer falling rather decidedly, at Valencia Island, rising over Great Britain, the North Sea and France.

## TEMPERATURE

Highest, 59° at Rochefort and Brest, 58° at Bingen, 57° at Christiania, 55° at Pelly.  
 Lowest, (1) 46° at Munich, 49° at Lyons, 51° at Paris; (2) 44° at York, 49° at Oxford, 50° in London; (3) 48° at Haparanda.  
 The daily maxima recorded in our Islands yesterday exceeded 60° over the southeastern coasts of England only.

## WIND

Light and variable from the SW<sup>d</sup> over France; S<sup>1</sup> to E<sup>2</sup> on the eastern shores of the North Sea;  
 SW<sup>2</sup> to S<sup>3</sup> over the United Kingdom; SE<sup>3</sup>, and freshening, at Valencia Island.

## WEATHER

Temporarily fine over the greater part of the Kingdom, but dull and showery in the far west.  
 Rain has fallen at nearly all stations during the day, and thunderstorms have occurred in the south and southeast of England.

## SEA

Rough in the north and on our southwestern coasts, slight in the East and south.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

During the past twentyfour hours a further and considerable increase of pressure has occurred over the British Islands and their neighbourhood, the strong winds in the Channel have died down, and in most places the weather has cleared up. In the southwest of Ireland, however, the barometer has begun to fall again, the wind there has backed towards SE, and is freshening with an increase of sea, showery weather, and unsettled appearance.

## FORECASTS

For the 24 hours ending at NOON on 9<sup>th</sup> OCT<sup>r</sup>

1891.

### DISTRICTS.

### FORECASTS.

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

SE<sup>1</sup> and S<sup>2</sup> winds, increasing greatly in force; fine to rainy and unsettled.  
 Same as N<sup>o</sup> 5  
 SW<sup>2</sup> and S<sup>2</sup> winds, increasing; fine to wet and unsettled.

### DISTRICTS.

### FORECASTS.

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

S<sup>2</sup> winds, strong and increasing; squally, rainy.  
 D° D° D°  
 S<sup>2</sup> winds, strong to a gale; rainy, squally, unsettled.

### WARNINGS

The South Cone has again been hoisted this morning in districts 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.

Noon. The warnings have now been extended to all our western coasts.



# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND			SEA			BAR.	THER.		WIND			SEA		
		D.	W.	D.	F.	WEA.					D.	W.	D.	F.	WEA.			
Skudesnaes ...	29.56	59	56	SE	8	T	6			Holyhead ...	29.41	55	50	SW	4	bc	4	
Sumburgh Head ...	29.32	53	52	SSE	3	C	6			Valencia ...	29.35	55	50	SW	5	c qth p	5	
Stornoway ...	29.12	54	53	SW	6	C	5			Scilly ...	29.50	57	53	SSW	5	cp	6	
Aberdeen ...	29.34	56	51	SSE	4	bq	5			Jersey ...								
Shields ...	29.40	57	51	S	3	p	3			Dungeness ...	29.67	61	57	WSW	7	C	5	
Ardrossan ...	29.31	56	53	S	3	b	2			London ...	29.63	57	55	SSW	3	c p	8	
Malin Head ...	29.19	51	47	S	5	bc	4			Yarmouth ...	29.62	61	55	SSW	3	b	4	
Mullaghmore ...	29.23	54	48	S	5	cp	5			Rocheport ...	29.66	61	56	SW	5	T	8	
Belmullet ...	29.18	54	48	WSW	6	op	*											

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

Weather greatly improved over the British Islands, but still changeable and showery; rainy in Belgium, the northeast of France, and the south of Norway; dull over the Spanish Peninsula, with rain at San Fernando. Fine in most other parts of Europe but with fog at several of the German and Austrian stations. Heavy showers, accompanied in some instances by thunder, and lightning occurring over England during day. Large quantities of rain falling in the Hebrides and south of Norway as well as at Lyons.

Temperature highest 75° at Algiers and Marseilles, 74° at Barcelona and 73° at Cagliari; above 60° on the shores of the Mediterranean and Adriatic generally, as well as on the coasts of the Iberian Peninsula, above 55° in the southeast of England and also in the west of Norway. Lowest 33° at Moscow, 39° at Uleaborg, 40° at Archangel, and 41° at St. Petersburg and Kharkov. Daily maxima very little above 60° in any part of the United Kingdom, but thermometer exceeding 70° at some of the French stations.

Winds fresh or strong from the SW<sup>rd</sup> in the western and southern parts of the United Kingdom and also over the greater part of France, moderate from the SW<sup>rd</sup> in the north and east of our Islands, strong to a gale from the SE<sup>rd</sup> on the eastern shores of the North Sea. Light from SE over Sweden, Finland, the Baltic, eastern Germany, and Austria, and from the E<sup>rd</sup> or NE<sup>rd</sup> in the south of Russia. Very variable over southern Europe and the Mediterranean. No important change occurring during day, but wind moderating somewhat on our western and southern coasts.

Barometer highest 30.6 in: and upwards over Central Russia; 30.2 in: and upwards, in a large anticyclone covering the whole of Russia with the Gulf of Bothnia and the northern parts of the Baltic. Lowest 29.0 in: and less in a depression lying to the northward of the United Kingdom. Rise of barometer taking place during day in most parts of Western Europe, but shallow secondary depressions moving northward across England.

### EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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

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

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„ Weekly „ „ „ „ £1 10 0 „



# DAILY WEATHER REPORT.

for *Friday, 9<sup>th</sup> October, 1891.*  
 Issued by the Meteorological Office, 63, Victoria Street, London. *R. H. SCOTT, Secretary.*

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 3.)	SHADE TEMP.		Amount of Rainfall.	
	Reading at 32° F. and Sea Level.	Dry.	Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...	30.13	?	SW	2	0	30.12	- 02	48	47	0	2	0	0	50	45	-	
	Hernösand ...	30.07	51	S	2	0	30.02	- 09	51	51	0	5	2	0	55	46	0.04	
	Stockholm ...	30.05	54	2	0	0	30.06	- 02	54	53	- 1	SE	2	0	59	48	-	
	Wisby ...	30.01	53	SSE	4	0	29.99	- 02	55	54	- 1	SSE	4	0	59	50	-	
	Bodö ...	29.86	55	E	2	0	29.88	+ 02	56	54	+ 2	E	2	bc	61	48	-	
	Christiansund	29.83	51	SE	1	0	29.72	- 02	52	49	- 5	ESE	4	0	57	48	0.12	
	Skudesnaes ...	29.82	55	SSE	6	0	29.69	- 10	57	54	+ 3	SSE	8	0	57	55	0.04	
	Christiania Fjord (Færder)	29.95	55	SSE	2	0	29.95	+ 14	54	53	- 1	ESE	4	0	55	54	-	
	Skagen (The Scaw)	29.95	54	S	1	0	29.94	+ 10	52	51	- 2	SSW	1	0	55	52	-	
	Fanö ...	29.92	52	SSE	1	0	29.90	+ 03	51	50	- 4	SSE	4	0	61	48	-	
BRITISH ISLANDS.	Sumburgh Head	29.55	49	S	3	bc	29.11	- 40	51	51	0	SSE	3	0	54	43	0.23	
	Stornoway ...	29.30	54	S	6	0	28.93	- 43	52	52	+ 2	SW	4	0	54	48	0.35	
	Wick ...	29.50	53	S	7	bc	29.12	- 35	53	50	+ 2	SSW	5	0	57	49	0.08	
	Nairn ...	29.41	51	W	1	c	29.11	- 37	52	49	+ 2	S	1	0	59	49	0.09	
	Aberdeen ...	29.56	52	SSE	4	cq	29.24	- 36	52	49	+ 2	SW	4	bcq	56	50	0.40	
	Leith ...	29.61	53	S	2	bc	29.30	- 31	53	49	+ 3	SW	3	bc	61	48	0.34	
	Shields ...	29.62	55	SSE	4	0	29.37	- 29	59	57	+ 14	S	3	0	59	42	0.23	
	Spurn Head ...	29.72	55	SSE	4	0	29.52	- 22	58	57	+ 8	S	6	odp	60	50	0.01	
	York ...	29.64	53	SE	1	0	29.52	- 21	56	54	+ 12	SSW	1	0	59	43	0.11	
	Loughborough	29.70	54	SE	1	0	29.52	- 21	60	59	+ 12	SSW	4	odp	63	47	-	
GERMANY & HOLLAND.	Ardrossan ...	29.42	54	S	4	r	29.31	- 26	54	52	+ 2	SSW	5	c	57	51	0.68	
	Malin Head ...	29.09	49	SSE	8	0	29.12	- 31	51	48	+ 4	SSW	6	bc	57	46	0.38	
	Mullaghmore ...	29.03	55	SE	8	rg	29.25	- 23	51	47	+ 2	SSW	5	0	58	49	0.25	
	Belmullet ...	29.00	56	S	6	0	29.22	- 20	53	49	+ 1	SSW	9	bc	57	49	0.45	
	Donaghadee ...	29.37	53	S	7	r	29.37	- 23	51	48	+ 4	SSW	6	bc	58	45	0.88	
	Liverpool (Bidston)	29.55	52	SE	5	r	29.53	- 18	56	50	+ 9	SW	1	c	61	47	0.08	
	Holyhead ...	29.43	55	SSE	7	mga	29.48	- 17	55	52	+ 3	SW	4	cgm	58	52	0.11	
	Parsonstown ...	29.19	58	SE	2	0	29.43	- 13	52	48	+ 5	2	0	bc	60	46	0.25	
	Valencia ...	29.15	57	SSW	8	rm	29.46	- 01	55	50	+ 1	SSW	6	c	59	51	0.54	
	Roche's Point...	29.25	57	S	8	r	29.51	- 06	55	52	0	SSW	3	bc	58	50	0.25	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.43	56	S	7	r	29.58	- 11	57	55	+ 1	SW	4	cpq	58	53	0.18	
	Scilly ...	29.45	58	SSE	6	m	29.64	- 06	56	55	+ 1	SSW	3	c	58	52	0.10	
	Prawle Point ...	29.65	57	SSW	6	r	29.68	- 13	56	56	+ 1	SW	4	bcm	57	54	0.14	
	Jersey (St. Aubin's)	29.78	58	S	5	c	29.67	- 16	60	60	+ 5	SW	38	d m	62	54	0.15	
	Hurst Castle ...	29.85	57	SW	4	c	29.70	- 11	60	59	+ 2	SSW	6	cqd	62	56	0.02	
	Dungeness ...	29.82	55	SSE	4	0	29.66	- 16	60	58	+ 10	SW	4	od	63	49	0.01	
	London ...	29.70	55	SW	2	c	29.61	- 19	60	59	+ 11	SW	3	od	60	49	0.03	
	Cambridge ...	29.79	53	SW	2	c	29.62	- 20	60	59	+ 10	SW	3	d	63	49	-	
	Yarmouth ...	29.81	55	SSW	3	0	29.65	- 12	59	58	+ 7	S	5	0	59	50	-	
	PENINSULA.	Cuxhaven ...	29.95	50	S	2	0	29.97	+ 05	46	45	- 4	S	2	m	60	44	-
Berlin ...		29.99	57	SSW	3	0	30.00	+ 05	52	51	- 4	W	2	0	63	50	-	
Wiesbaden ...		30.00	48	S	3	r	30.06	+ 06	48	47	- 6	2	0	0	59	43	0.04	
Munich ...		30.10	48	SW	3	r	30.13	+ 12	48	47	+ 2	SE	2	0	52	43	0.28	
The Helder ...		29.94	49	S	1	0	29.83	- 03	52	50	+ 3	S	3	0	57	48	0.08	
Brussels (9 a.m.)		29.89	55	S	3	bc	29.89	- 02	55	52	+ 3	SSE	3	0	60	46	-	
Cape Gris Nez		29.88	55	S	3	bc	29.74	- 06	57	57	+ 2	S	5	0	59	52	0.08	
Paris ...		29.98	54	S	1	0	29.96	- 01	56	54	+ 5	SSE	3	bc	63	57	-	
Brest ...		29.81	60	SW	5	m	29.77	- 12	61	61	+ 3	SSW	3	0	61	55	0.32	
Lorient ...		29.81	62	SW	5	r	29.77	- 12	61	61	+ 3	SSW	3	0	63	57	0.24	
PENINSULA.	Rochefort ...	29.96	62	SW	4	0	29.89	- 07	63	62	+ 4	SW	4	0	66	59	-	
	Belfort ...	29.96	59	SW	3	0	29.89	- 07	63	62	+ 4	SW	4	0	66	59	-	
	Lyons ...	30.04	57	E	1	0	30.06	- 01	49	48	- 0	N	1	0	64	44	-	
	Nice ...	30.04	51	SE	4	0	29.95	+ 07	59	57	+ 2	E	2	0	70	55	-	
	Perpignan ...	30.04	58	S	2	0	30.01	- 04	50	49	- 8	2	0	0	77	46	-	
	Biarritz ...	29.96	66	E	2	bc	29.88	- 13	67	56	+ 8	S	4	bc	73	59	-	
	Lisbon ...	30.10	63	W	4	0	30.04	- 09	59	58	+ 1	2	0	0	68	57	-	

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

\* Received too late for insertion in Charts on p. 2.



# WEATHER CHARTS

for 8 a.m. on Friday 9<sup>th</sup> October, 1891.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP

**BAROMETER**—Isobars are drawn for each tenth of an inch.  
Changes since previous morning are stated in words.  
**WIND**—Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus—  
→ forces above 10; → forces 8 to 10;  
→ forces 5 to 7; → forces 1 to 4;  
→ dead calm.  
**SEA DISTURBANCE**—Where considerable, is shown thus:  
= Rough, = High.

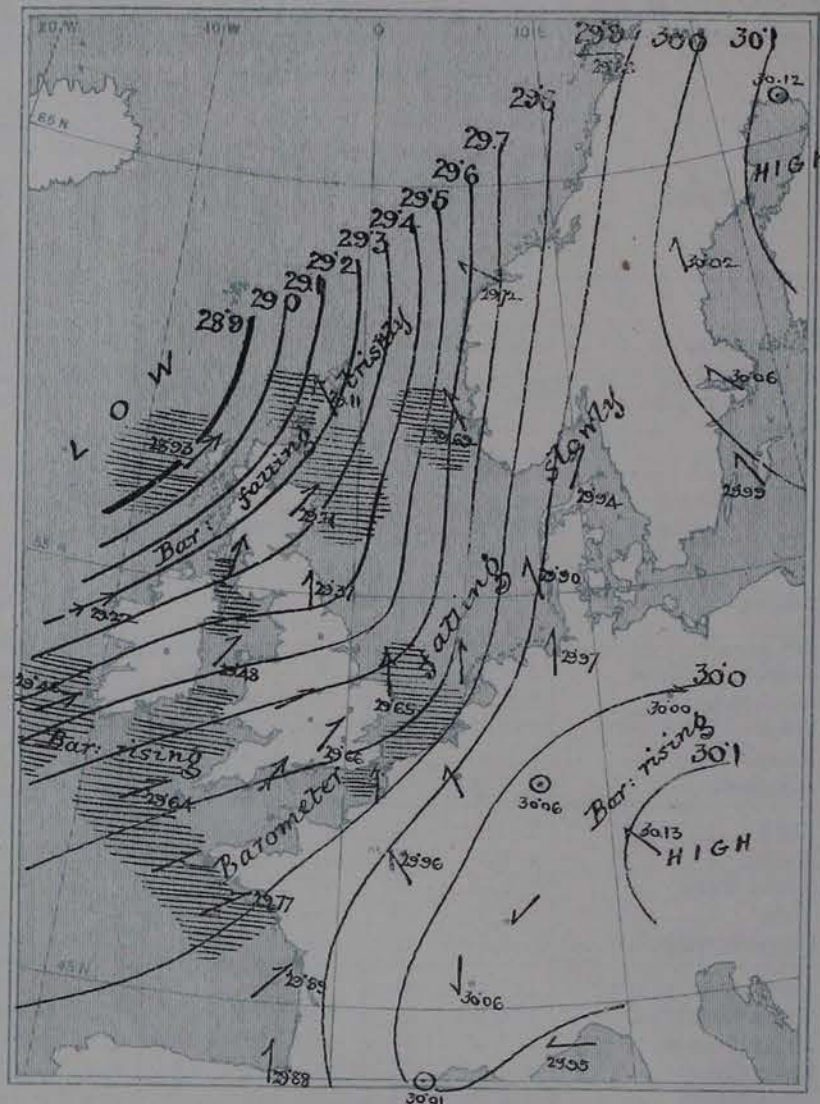
### MEAN HEIGHT OF THE BAROMETER

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

#### STATIONS.

#### MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.726
Stornoway	29.756
Wick	29.763
Nairn	29.770
Aberdeen	29.793
Leith	29.822
Shields	29.846
Spurn Head	29.867
York	29.882
Loughborough	29.901
Ardrossan	29.931
Mullaghmore	29.845
Donaghadee	29.850
Holyhead	29.872
Liverpool	29.879
Parsonstown	29.897
Valencia	29.896
Roche's Point	29.892
Pembroke	29.888
Scilly	29.910
Prawle Point	29.931
Jersey	29.925
Hurst Castle	29.922
Dover	29.916
LONDON	29.923
Oxford	29.924
Cambridge	29.912
Yarmouth	29.894



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

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

**WEATHER**—is shown by Letters of the Beaufort Scale.

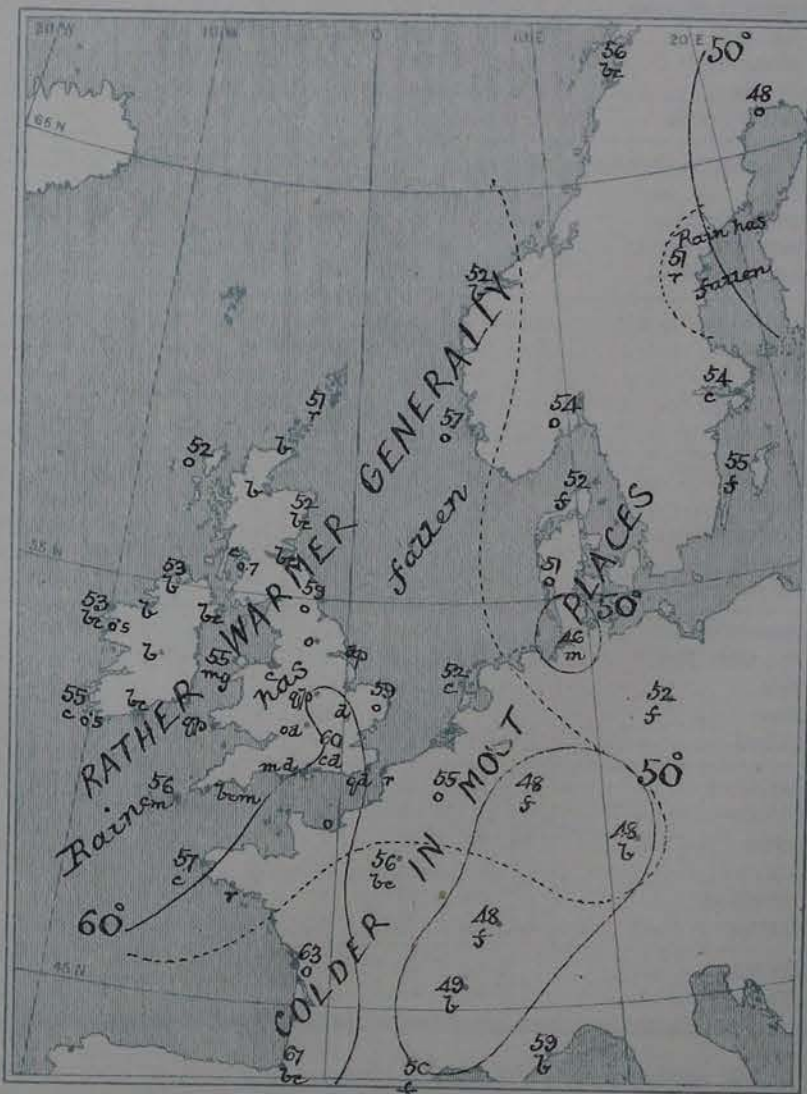
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of October.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	49.8	41.6	46.0	44.3	4.27
Stornoway.....	51.0	40.5	45.6	44.5	5.04
Wick.....	51.7	40.5	46.3	44.6	3.02
Nairn.....	51.9	40.8	44.8	42.9	2.38
Aberdeen.....	52.5	41.4	45.6	43.6	2.87
Leith.....	54.7	41.8	46.7	44.9	1.97
Shields.....	53.2	42.7	47.2	45.4	2.48
Spurn Head.....	53.3	45.7	48.8	47.3	2.27
York.....	54.5	41.4	45.9	44.5	2.60
Loughborough.....	53.7	41.1	45.9	44.6	2.80
Ardrossan.....	53.7	43.7	47.8	45.8	3.87
Mullaghmore.....	54.2	45.7	49.1	46.9	4.75
Donaghadee.....	53.6	43.6	47.8	46.6	3.14
Holyhead.....	54.7	47.3	50.3	48.3	4.31
Liverpool.....	53.8	44.7	47.8	45.8	3.46
Parsonstown.....	54.8	41.0	46.2	44.5	3.16
Valencia.....	56.6	46.8	51.4	49.2	5.88
Roche's Point.....	56.0	40.1	50.2	48.3	4.09
Pembroke.....	54.9	48.0	51.2	49.2	3.96
Scilly.....	56.6	50.2	53.7	51.6	3.70
Prawle Point.....	56.7	46.2	51.2	49.6	3.60
Jersey.....	58.2	48.6	53.3	50.7	4.45
Hurst Castle.....	57.1	45.8	50.8	49.2	3.28
Dover.....	56.1	46.2	50.2	48.2	3.22
LONDON.....	56.7	42.7	47.5	45.9	2.57
Oxford.....	55.5	42.2	46.2	44.9	2.56
Cambridge.....	56.5	41.0	46.4	45.3	2.27
Yarmouth.....	54.3	44.6	49.0	47.6	2.92

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.1 in: and more to 29.9 in: over Germany, France, Finland, and Sweden.  
 Lowest, 28.9 in: and less, a little to the northward of the Hebrides.  
 Gradient somewhat steep in the north and east, moderate in the south.  
 Barometer rising again at all our southern and western stations.

## TEMPERATURE

Highest, 67° at Biarritz, 63° at Rochefort, 60° over our southeastern counties generally and at Loughborough.  
 Lowest, 48° at Hafnarvalla and also at Munich, Wiesbaden, and Belfort.  
 The increase over Central England since yesterday morning ranges from 10 to 14 degrees.

## WIND

S<sup>4</sup> to SW<sup>4</sup> all over the Kingdom — moderate to strong in force at most stations, but blowing a gale at Helmsleet and Skudenaaes. The gales felt at the other western and northern stations last night have died down.

## WEATHER

Very variable in different parts of the Kingdom and changeable generally. Rain has fallen in our islands except in the extreme southeast, and in the extreme west and northwest the fall was rather large 0.68 in: at Anderson, 0.54 in: at Valencia Island.

## SEA

Still rough in the extreme west and north, moderate in the south and east as a whole.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression which was approaching our western coasts yesterday has been travelling north-eastwards during the day, and its centre now lies some distance to the northward of Skomaway. S<sup>3</sup> to SW<sup>3</sup> gales have been experienced on our western and northern coasts generally, and fresh to strong breezes elsewhere. These have since moderated, but the general appearance is still unsettled. Rain has fallen in almost all parts of the Kingdom, most in the northwest.

## FORECASTS

For the 24 hours ending at NOON on 10<sup>th</sup> OCT<sup>r</sup> 1891.

DISTRICTS.		FORECASTS.	DISTRICTS.		FORECASTS.
† 0	SCOTLAND NORTH	SW <sup>4</sup> and S <sup>4</sup> winds, moderating for a time, increasing again later, rain at times.	† 6	SCOTLAND WEST	Wind probably backing and increasing in force, with rainy unsettled weather.
† 1	SCOTLAND EAST		† 7	ENGLAND N.W.	
2	ENGLAND N.E.	SW <sup>4</sup> winds, moderate or fresh; some showers, very mild.	† 8	ENGLAND S.W.	
3	ENGLAND EAST		† 9	IRELAND NORTH	
4	MIDLAND COUNTIES		† 10	IRELAND SOUTH	
5	ENGLAND SOUTH	SW <sup>4</sup> winds, fresh to moderate; warm, weather clearing up temporarily.	WARNINGS		The south cone is still flying 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.

		THER:		WIND						THER:		WIND					
	BAR:	D.	W.	D.	F.	WEA.	SEA			BAR:	D.	W.	D.	F.	WEA.	SEA	
Skudesnaes ...	29.82	58	54	SSE	6	c	H	Holyhead ...	...	29.60	56	53	SSE	5	09	4	
Sumburgh Head	29.54	53	51	S	3	b	5	Valencia ...	...	29.22	58	56	SSE	8	77	6	
Stornoway ...	29.40	54	53	S	6	c	6	Scilly ...	...	29.56	57	57	SSE	6	m	6	
Aberdeen ...	29.61	54	50	SSE	4	b	H	Jersey ...	...								
Shields ...	29.66	56	50	S	3	c	2	Dungeness ...	...	29.85	61	56	WSW	4	6e	3	
Ardrossan ...	29.54	55	53	S	4	o	3	London ...	...	29.83	60	53	S	3	c	*	
Malin Head ...	29.36	54	49	SSE	5	c	3	Yarmouth ...	...	29.81	59	53	WSW	3	b	3	
Mullaghmore ...	29.32	52	49	SE	6	OTG	H	Rocheport ...	...	29.96	65	60	SW	4	o	*	
Belmullet ...	29.22	52	51	SSE	6	RU	3										

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

Weather fine over the greater part of our Islands and the Continent, but dull and showery in the west of Ireland. Dull also in many parts of Scandinavia, Germany, and north Italy, with rain at Wiesbaden; foggy at Prague and Vienna. Rain falling later in nearly all parts of the United Kingdom, heavily at some of our western and northern stations.

Temperature highest 79° at Galle, 75° at Cagliari, and 73° at Tunis and Malta; above 60° at nearly all the Mediterranean and Adriatic stations and above 55° in the extreme southeast of England. Lowest (1) 30° at Moscow, 39° at St Petersburg, and 40° at Kharkov; (2) 44° at York, 45° at Shields, and 47° at Donaghadee, Larne, and Liverpool; (3) 47° at Madrid. Daily maxima very little above 60° in any part of the Kingdom, but thermometer reaching 70° or more over the central and southern parts of France.

Wind S<sup>3</sup> (SW to SE) over the greater part of western and northern Europe, but W<sup>3</sup> in the eastern parts of the Channel; light or moderate in force generally, but fresh or strong on the west coasts of Ireland and Scotland. Light from the E<sup>nd</sup> in the south of Russia; variable over southern Europe, Algeria, and the Mediterranean. Subsequently increasing to a gale from the S<sup>wd</sup> in nearly all parts of our western and northern coasts, and freshening somewhat over the eastern parts of the United Kingdom.

Barometer highest 30.6 ins. and upwards, over Central Russia, 30.1 ins. and upwards in a large anticyclone covering the whole of Russia, with the Gulf of Bothnia and the northern parts of the Baltic, as well as in another system lying over Spain. Lowest 29.4 ins. and less, in a large area lying to the westward of our Islands. Deep depression subsequently advancing to our western coasts, and barometer falling <sup>quickly</sup> over Ireland and the west of England.

### EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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

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

„ Weekly „ „ „ £1 10 0 „



# DAILY WEATHER REPORT.

for *Saturday, 10<sup>th</sup> October, 1891.*  
*Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.*

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 2.)	SHADE TEMP.		Amount of Rainfall.	
	Reading at 32° F. and Sea Level.	Dry.	Dirac.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirac.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...	30.12	49	SW	4	0	30.10	-0.02	49	48	+1	S	2	c	*	50	45	-
	Hernösand ...	30.03	50	S	2	0	30.05	+0.03	48	?	-3	S	2	c	*	52	45	0.04
	Stockholm ...	30.08	54	SE	2	0	30.12	+0.06	52	51	-2	S	2	c	*	61	50	-
	Wisby ...	30.04	51	NE	4	0	30.09	+0.10	55	54	0	SSE	4	c	*	63	48	0.04
	Bodö ...	29.74	59	E	4	bc	29.70	-0.18	54	50	-2	SE	2	c	1	59	52	-
	Christiansund	29.52	58	ESE	2	c	29.60	-0.03	52	51	0	SE	1	bc	1	?	52	0.12
	Skudesnaes ...	29.67	55	SSE	8	0	29.83	+0.14	55	54	-2	SSE	5	0	4	?	?	0.16
	Christiania Fjord (Færder)	29.91	56	JSE	5	0	29.89	-0.06	58	55	+4	SSE	5	8	4	?	54	0.24
	Skagen (The Scaw)	29.91	56	S	5	0	29.92	-0.02	56	56	+4	SSW	5	1	3	57	52	0.12
	Fanö ...	29.89	57	SSE	4	0	29.94	+0.04	58	58	+7	SSE	4	0	*	59	56	-
BRITISH ISLANDS.	Sumburgh Head	29.44	52	S	4	b	29.54	+0.43	51	49	0	S	3	b	5	55	48	0.01
	Stornoway ...	29.16	51	SW	7	0	29.41	+0.48	51	50	-1	SW	6	c	5	54	46	0.45
	Wick ...	29.30	52	SSW	6	bc	29.56	+0.44	51	48	-2	SSW	4	b	4	58	46	-
	Nairn ...	29.32	51	SW	4	bc	29.55	+0.44	50	46	-2	WSW	2	b	1	59	42	-
	Aberdeen ...	29.45	53	S	6	bcy	29.70	+0.46	48	45	-4	SW	2	bw	3	57	45	-
	Leith ...	29.50	55	SW	3	bc	29.69	+0.39	48	46	-5	S	2	b	*	60	46	0.04
	Shields ...	29.59	56	SSW	3	c	29.75	+0.38	50	48	-4	S	3	c	2	61	47	-
	Spurn Head ...	29.71	57	S	3	c	29.80	+0.28	54	50	-4	S	2	opm	3	60	53	0.01
	York ...	29.73	52	SSW	2	b	29.74	+0.22	52	50	-4	SSE	1	o	*	61	48	-
	Loughborough	29.81	56	SSW	2	c	29.78	+0.26	53	53	-7	SE	1	gam	*	64	52	0.02
GERMANY & HOLLAND.	Ardrossan ...	29.50	55	SSW	3	b	29.65	+0.34	52	51	-2	S	3	bc	3	57	50	-
	Malin Head ...	29.39	50	SW	6	bcy	29.52	+0.40	46	45	-5	SSW	6	b	3	56	45	0.01
	Mullaghmore ...	29.50	50	SW	5	cp	29.56	+0.31	50	46	-1	S	5	bc	4	57	48	-
	Belmullet ...	29.38	54	WSW	8	c	29.50	+0.28	51	49	-2	WSW	3	bc	*	55	49	0.12
	Donaghadee ...	29.54	51	SW	4	bc	29.69	+0.32	48	47	-3	SW	4	b	2	57	46	0.04
	Liverpool (Bidston)	29.68	55	SW	2	c	29.77	+0.24	50	49	-6	SSE	2	+	1	61	50	0.02
	Holyhead ...	29.63	56	SW	5	gem	29.72	+0.24	52	50	-3	SW	1	cq	2	59	51	0.01
	Parsonstown ...	29.60	51	Z	0	b	29.65	+0.22	46	45	-6	Z	0	bg	*	57	42	-
	Valencia ...	29.64	54	SW	4	bm	29.63	+0.17	52	52	-3	SSW	5	cp	5	57	50	0.04
	Roche's Point...	29.67	53	WSW	3	bm	29.70	+0.19	55	52	0	SW	4	b	4	59	50	0.02
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.72	57	SSW	4	c	29.74	+0.16	55	53	-2	S	3	cp	4	59	53	0.32
	Scilly ...	29.73	57	SSW	3	c	29.73	+0.09	57	57	+1	N	2	r	5	60	54	0.20
	Prawle Point ...	29.90	57	SW	3	0	29.76	+0.08	55	55	-1	SW	1	rm	2	60	54	0.40
	Jersey (St. Aubin's)	29.84	61	W	2	c	29.79	+0.12	61	60	-1	SSE	5	omp	4	66	54	0.14
	Hurst Castle ...	29.82	58	SW	4	c	29.79	+0.12	59	59	-1	SSW	4	omr	3	61	57	0.01
	Dungeness ...	29.80	59	WSW	4	bc	29.85	+0.15	59	59	-1	S	3	cw	2	62	55	0.01
	London ...	29.81	57	SW	2	b	29.82	+0.16	56	55	-4	SW	2	cw	*	66	51	-
	Oxford ...	29.81	55	SW	2	c	29.81	+0.20	54	53	-6	SE	1	r	*	63	53	0.02
	Cambridge ...	29.77	57	S	1	c	29.84	+0.22	55	55	-5	S	1	o	*	65	51	-
	Yarmouth ...	29.75	60	SW	3	c	29.86	+0.21	56	55	-3	SSW	2	bcm	3	63	51	-
PENIN- SULA.	Cuxhaven ...	29.95	54	SSE	3	b	29.99	+0.02	56	56	+10	S	3	r	*	62	?	0.04
	Berlin ...	30.10	55	SW	2	b	30.15	+0.15	48	47	-4	SE	2	b	*	61	46	-
	Wiesbaden ...	*	*	*	*	*	30.08	+0.02	54	53	+6	Z	0	0	*	57	48	-
	Munich ...	30.12	49	NE	2	b	30.14	+0.01	39	39	-9	E	2	f	*	57	37	-
	The Helder ...	29.89	59	SSW	3	0	29.94	+0.11	57	57	+5	S	1	f	1	61	52	-
	Brussels (9 a.m.)	*	*	*	*	*	29.87	+0.13	58	58	+1	SSW	3	m	2	61	54	0.12
	Cape Gris Nez	29.83	59	SW	3	c	29.95	-0.01	59	58	+3	SSE	2	o	*	64	55	-
	Paris ...	29.94	62	S	7	0	?	?	59	58	+2	SE	3	r	6	66	55	0.35
	Brest ...	?	61	SW	2	c	?	?	59	58	+2	S	3	b	5	64	59	0.12
	Lorient ...	29.86	60	SW	2	bc	29.80	+0.03	62	61	+1	S	3	b	5	64	59	0.12
FRANCE AND BELGIUM.	Rochefort ...	29.90	65	WSW	3	0	29.84	-0.05	60	58	-3	SE	4	bc	*	68	57	0.08
	Belfort ...	?	59	NE	2	bc	?	?	54	?	+6	NE	2	bc	*	65	44	-
	Lyons ...	30.02	60	S	1	c	30.05	-0.01	51	50	+2	E	1	bc	*	67	51	-
	Nice ...	30.00	60	Z	0	b	30.04	+0.09	58	55	-1	ESE	1	b	0	68	55	-
	Perpignan ...	30.01	58	Z	0	b	30.02	+0.01	52	52	+2	SE	2	o	*	86	48	-
	Biarritz ...	29.90	71	ESE	3	b	29.85	-0.03	69	58	+2	SSE	1	b	4	79	63	-
	Corunna ...	*	*	*	*	*	29.96	-0.08	62	62	+3	NW	1	f	6	72	59	-
Lisbon ...	29.97	65	WNW	3	b	29.96	-0.08	62	62	+3	NW	1	f	6	72	59	-	

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

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



for 8 a.m. on Saturday, 10<sup>th</sup> October, 1891.

EXPLANATION OF MAP

Changes since previous morning are stated in words.

their barbs and feathers refer to force thus—

$\Rightarrow \Rightarrow \Rightarrow$  = forces above 10;  $\Rightarrow \Rightarrow$  = forces 8 to 10;  
 $\Rightarrow$  = forces 5 to 7;  $\Rightarrow$  = forces 1 to 4.  
 (•) = dead calm.

===== Rough. ===== High.

at 8.0 a.m. for the month of October

*During the 20 Years: 1871—1890.*

[illegible]

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

WEATHER is shown by Letters of the Beaufort Scale.

(For the month of October.)

A hand-drawn map of Europe and surrounding regions, including parts of North Africa, the Middle East, and Asia. The map is overlaid with a grid of latitude and longitude lines. Handwritten annotations in black ink are present throughout the map. Large, bold, slanted text reads "VERY GENERALLY" across the central part of Europe and "WARMER" across the southern part of Europe and North Africa. Smaller, bold, slanted text reads "COLDER" in the northern part of Europe. Other handwritten notes include "Rain" in the northwest, "Aurora in night" in the north, and "has" in the northwest. Numerous numbers and letters are scattered across the map, often near specific locations or along lines of latitude/longitude. For example, "50" is written multiple times, along with "48", "51", "52", "53", "54", "55", "56", "57", "58", "59", "60", "61", "62", "63", "64", "65", "66", "67", "68", "69", "70", "71", "72", "73", "74", "75", "76", "77", "78", "79", "80", "81", "82", "83", "84", "85", "86", "87", "88", "89", "90", "91", "92", "93", "94", "95", "96", "97", "98", "99", "100". Some numbers are accompanied by letters, such as "50 b", "48 m", "51 c", "52 f", "53 g", "54 h", "55 i", "56 j", "57 k", "58 l", "59 m", "60 n", "61 o", "62 p", "63 q", "64 r", "65 s", "66 t", "67 u", "68 v", "69 w", "70 x", "71 y", "72 z".

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.



# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.1 ins. and more, to 29.9 ins. over Russia, the Baltic, Sweden, Denmark, Germany, and France.  
 Lowest, 29.4 ins. and less, off the northwest of Scotland.  
 Gradients moderate to slight and variable.  
 Barometer rising in the north, falling a little in the west and south.

## TEMPERATURE

Highest, 69° at Biarritz, 62° at Lorient, 61° at Jersey, 59° at Hurst Castle and Dungeness.  
 Lowest, (1) 39° at Munich, 48° at Berlin; (2) 48° at Kemiöland, and 49° at Haparanda; (3) 46° at Malin Head and Stromsøy, 48° at Donaghadee and Aberdeen.  
 It is above 50° in all parts of England, where the daily maxima yesterday ranged from 60° to 66°.

## WIND

S<sup>3</sup> over nearly the whole of the United Kingdom and light to moderate in force; at Scilly, however it is very light from the N<sup>nd</sup>. Over Germany it is E<sup>3</sup>, over Denmark and Norway SE<sup>3</sup>.

## WEATHER

Fine and bright in the north of our Islands, cloudy and raining in the southwest and south, and in the Netherlands; fine and bright in the south and southwest of France.

## SEA

Rough off Biscay, rather rough in the extreme west and north of our Islands, moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Since yesterday the barometer has risen decidedly in all parts of our Islands — most in the north, but during the night it has begun to fall again in the west of Ireland, and this morning it is falling in the south of England also. A new large depression is approaching Ireland from the Westward, and a local disturbance is being developed at the mouth of the Channel. The weather is therefore becoming very unsettled again after a temporary improvement, and windy wet weather is probable in all districts.

## FORECASTS

For the 24 hours ending at NOON on 11<sup>th</sup> OCT<sup>r</sup>

1891.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	S <sup>3</sup> winds, increasing in force; fine to rainy.	6 SCOTLAND WEST	Same as N <sup>o</sup> 0 and 1.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	S <sup>3</sup> winds, increasing; squally, rain at times.
3 ENGLAND EAST	Same as N <sup>o</sup> 5.	9 IRELAND NORTH	S <sup>3</sup> and SW <sup>3</sup> winds, strong to a gale; rainy, unsettled.
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH	SW <sup>3</sup> winds, light to fresh or strong; changeable, close, rain at times.	WARNINGS	The SOUTH CONE is still flying in districts 0. 1. 6. 9. 10. and part of 7.

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



# YESTERDAY'S 2 P.M. REPORTS.

THER: WIND								THER: WIND							
BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA	
Skudesnaes ...	29.64	53	52	SSW	9	r	8	Holyhead ...	29.58	58	53	SW	4	c	4
Sumburgh Head	29.17	54	51	S	4	b	6	Valencia ...	29.57	57	52	WSW	5	bqm	5
Stornoway ...	29.04	51	51	SW	8	r	7	Scilly ...	29.70	57	56	SSW	3	o	5
Aberdeen ...	29.35	56	49	SSW	6	bcq	6	Jersey ...	29.41	65	60	WSW	4	bc	3
Shields ...	29.51	59	52	S	9	c	3	Dungeness ...	29.75	60	60	SW	5	r	4
Ardrossan ...	29.42	56	53	SSW	3	c	3	London ...	29.74	64	60	SSW	3	c	*
Malin Head ...	29.29	56	50	SW	7	b	4	Yarmouth ...	29.70	63	61	SSW	5	c	4
Mullaghmore ...	29.39	54	48	WSW	6	c	5	Rochefort ...	29.92	68	65	SW	4	o	4
Belmullet ...	29.38	54	51	WSW	8	cp	*								

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

Weather changeable and showery over the greater part of northwestern Europe, fine elsewhere, but with fog at many of the Danish, German, and Russian stations, as well as in the north of Italy. Some improvement taking place over our Islands during day, but weather remaining cloudy and showery in some districts.

Temperature highest 75° at Palermo and Tunis, 73° at Algiers, 72° at Malta, and 71° at Barcelona; above 60° over southern Europe generally, and just reaching that point at several of the English stations; above 55° even in the west of Norway. Lowest 28° at Moscow, 37° at Warsaw, 38° at St. Petersburg, 41° at Nicolaiiff, and 42° at Riga. Rising during day to 65° at Cambridge, to 66° in London, and to 67° at Jersey; exceeding 70° in the south of France, on the northern side of the Pyrenees, but not reaching that point in the Riviera.

Wind moderate to strong from the S.W. over the greater part of the United Kingdom, and also in the west of France, with a gale at Belmullet and Hurst Castle. Light or moderate from the S.E. over Sweden, Russia, western Denmark, the Netherlands and the northeast of France, but variable on the southern shores of the Baltic, as well as over the greater part of southern Europe and the Mediterranean. Wind moderating later in the west and south of our Islands, but remaining strong at some of our northern stations.

Barometer highest 30.50 in: at Moscow, 30.1 in: and upwards in an anticyclone covering the whole of Russia. Lowest 28.9 in: and less, in a depression lying off the northwest of Scotland. Distribution of pressure somewhat irregular over central and southern Europe, with shallow local depressions in various places. Scotch disturbances subsequently travelling away to the northward, and barometer rising in all parts of the United Kingdom.

### EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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„ Weekly „ „ „ „ £1 10 0 „



# DAILY WEATHER REPORT.

for Sunday OCTOBER 11<sup>th</sup> 1891.  
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 5.)	SHADE TEMP.		Amount of Rainfall.	
			Reading at 3 <sup>rd</sup> P. and Sea Level.	Dry.		Dir.	Force. (0 to 12.)	Reading at 8 <sup>th</sup> P. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.			Dir.	Force. (0 to 12.)		Max.
SCANDINAVIA.	Haparanda ...	29.06	49	SW	2	0	29.02	-0.08	49	48	0	SW	4	C	*	51	46	0.28
	Hernösand ...	29.08	51	S	2	f	29.01	-0.04	50	49	+2	ESE	6	f	*	52	46	0.04
	Stockholm ...	29.15	53	S	2	0	29.00	-0.02	53	52	+1	SSW	2	f	*	53	48	—
	Wibby ...	29.10	53	S	4	0	29.05	-0.04	55	55	0	SSE	4	0	*	51	48	—
	Bodo ...	29.25	50	E	2	b	29.73	+0.03	54	50	0	ESE	2	0	1	54	48	0.24
	Christiansund ...	29.76	54	NW	1	C	29.54	-0.15	53	51	+1	ESE	1	r	2	53	52	0.08
	Skudeanes ...	29.78	56	ESE	4	0	29.56	-0.27	58	55	+3	SSE	8	r	5	58	55	0.71
	Christiania Fjord (Fjord)	29.94	56	SSE	4	f	29.77	-0.17	56	54	-2	SE	5	0	4	58	55	0.12
	Skagen (The Row)	29.91	57	S	5	r	29.75	-0.17	56	55	0	SSE	6	0	4	57	55	0.04
	Fanø ...	29.84	58	SE	4	0	29.74	-0.20	53	52	-5	SE	4	C	*	59	55	—
BRITISH ISLANDS.	Sumburgh Head	29.50	50	SSE	3	b	29.40	-0.14	50	49	-1	SSE	2	C	4	54	47	—
	Stornoway ...	29.42	49	SW	6	r	29.11	-0.30	52	52	+1	SE	4	0	4	54	46	0.45
	Wick ...	29.52	50	SSW	5	b	29.30	-0.26	50	48	-1	S	6	C	4	58	48	—
	Nairn ...	29.52	51	Z	0	C	29.27	-0.28	53	48	+3	ESE	2	0	1	59	45	—
	Aberdeen ...	29.61	51	SSE	3	b	29.37	-0.33	52	50	+4	SSE	5	0	4	54	45	—
	Leith ...	29.60	53	S	1	b	29.35	-0.34	49	47	+1	SSE	3	0	*	60	44	—
	Shields ...	29.64	52	SE	2	r	29.45	-0.30	49	48	-1	SSW	3	0	2	55	44	0.10
	Spurn Head ...	29.62	53	NNW	4	0	29.56	-0.24	53	51	-1	S	4	C	3	56	50	0.21
	York ...	29.66	53	NNW	1	b	29.49	-0.25	52	49	-2	S	2	0	*	55	43	0.35
	Loughborough	29.67	52	WSW	1	b	29.52	-0.26	49	49	-4	SSE	2	0	*	57	47	0.76
GERMANY & HOLLAND.	Arcton ...	29.56	54	SSW	3	C	29.32	-0.43	53	52	+1	ESE	5	0	4	57	51	0.04
	Malin Head ...	29.49	50	S	3	b	29.22	-0.60	53	51	+7	SSE	6	0	3	55	44	0.04
	Mullaghmore ...	29.47	52	SSW	4	b	29.23	-0.63	56	53	+6	S	5	0	4	59	49	0.04
	Belmullet ...	29.43	53	S	4	0	29.12	-0.68	53	51	+2	SSW	8	0	*	55	49	0.25
	Donaghadee ...	29.57	52	SW	3	b	29.16	-0.53	54	53	+1	S	7	r	5	59	45	0.14
	Liverpool (Bidston)	29.67	53	SE	1	0	29.39	-0.38	52	49	+2	SE	4	C	3	55	46	0.08
	Holyhead ...	29.64	54	SSW	1	C	29.26	-0.46	52	52	+2	SSE	7	0	6	59	52	0.01
	Parsonstown ...	29.55	51	SE	1	b	29.27	-0.68	55	54	+9	SE	2	0	*	59	45	0.04
	Valencia ...	29.50	55	S	6	C	29.26	-0.67	54	52	+2	SW	5	C	5	51	51	0.55
	Roche's Point ...	29.60	55	SW	4	b	29.02	-0.68	53	53	-2	SW	5	r	5	55	53	0.20
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.69	55	SW	3	b	29.22	-0.52	55	55	0	S	8	r	7	58	54	0.08
	Scilly ...	29.70	55	SW	3	b	29.22	-0.51	55	55	-2	S	8	r	6	59	51	0.40
	Prawle Point ...	29.71	54	SSW	2	C	29.46	-0.30	55	55	0	S	6	r	5	59	52	0.24
	Jersey (St. Aubin's)	29.79	58	W	4	C	29.62	-0.17	58	56	-3	SSE	5	0	4	62	54	0.27
	Hurst Castle ...	29.72	59	WSW	5	C	29.58	-0.21	57	56	-2	SW	6	C	4	60	55	0.25
	Dungeness ...	29.74	58	NNW	3	r	29.67	-0.18	57	57	0	WSW	5	0	4	61	56	0.50
	London ...	29.72	57	SW	2	b	29.62	-0.20	53	52	-3	SSW	2	0	*	61	48	0.22
	Oxford ...	29.70	53	Z	0	0	29.57	-0.24	51	50	-3	SE	3	0	*	58	48	0.47
	Cambridge ...	29.70	56	SE	1	b	29.61	-0.23	52	52	-3	S	1	0	*	60	48	0.22
	Yarmouth ...	29.69	57	S	4	0	29.65	-0.21	53	53	-1	SSW	2	b	3	60	51	0.20
GERMANY & HOLLAND.	Cuxhaven ...	29.92	57	S	3	C	29.83	-0.16	57	50	-5	SSE	3	b	*	65	49	—
	Berlin ...	29.06	56	SE	3	b	29.00	-0.15	53	52	+5	SE	4	b	*	64	49	—
	Wiesbaden ...	29.03	55	SE	3	b	29.03	-0.15	53	51	-1	Z	0	0	*	64	48	—
	Munich ...	29.04	55	Z	0	b	29.03	-0.11	53	43	+4	E	2	0	*	64	39	—
	The Helder ...	29.79	60	SSE	1	r	29.75	-0.19	58	58	+1	S	1	b	1	63	57	0.12
	Brussels (S.M.)	29.78	59	SE	1	0	29.78	-0.16	57	57	0	SSE	2	b	*	71	56	—
	Cape Gris Nez	29.76	58	SE	4	0	29.71	-0.16	57	57	0	SSW	4	C	4	70	55	0.62
	Paris ...	29.83	65	SE	2	b	29.78	-0.13	57	56	-2	S	6	0	6	70	55	—
	Brest ...	29.82	59	W	2	C	29.78	-0.14	57	57	0	S	6	0	6	70	55	—
	Lorient ...	29.82	59	W	3	0	29.76	-0.14	57	54	-3	S	5	0	6	70	55	0.35
FRANCE AND BELGIUM.	Rochefort ...	29.85	64	W	3	0	29.78	-0.16	60	60	0	SSE	4	0	2	72	57	0.12
	Belfort ...	29.86	59	NE	2	b	29.75	-0.19	53	56	+3	SW	2	b	*	71	51	—
	Lyons ...	29.96	61	S	2	b	29.95	-0.03	58	58	0	E	1	0	*	71	51	—
	Nice ...	29.03	60	Z	0	0	29.01	-0.03	58	55	+3	SE	3	0	*	70	54	—
	Perpignan ...	29.01	63	E	1	b	29.91	-0.10	65	63	+2	SE	3	0	*	70	54	—
	Biarritz ...	29.94	66	W	5	0	29.92	-0.03	61	61	0	SE	4	0	*	71	59	—
	Corunna ...	29.97	65	W	4	b	29.96	-0.03	63	63	0	S	6	0	4	72	59	—
	Lisbon ...	29.97	65	W	4	b	29.99	+0.02	61	61	0	SE	1	0	4	72	59	—



for 8 a.m. on Sunday, 11 October, 1891.



EXPLANATION OF MAP

Changes since previous morning are stated in words.

\*  $\rightarrow$  forces above 10  $\rightarrow$  forces 8 to 10.

$\longrightarrow \neg$  forces 5 to 7;  $\longrightarrow =$  forces 1 to 4.

SEA DISTURBANCE - Where considerable, is shewn thus:

 = Rough,  = High

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

WEATHER is shown by letters of the Beaufort Scale.

(For the month of October.)

A hand-drawn map of Europe and the North Atlantic, showing isotherms and handwritten annotations. The map includes latitude and longitude lines. Isotherms for 50°C and 60°C are drawn, with handwritten notes like "falloff", "SCARCELY ANY CHANGE", "here", "NEARLY ALL", "WARMER", and "PLACES". Numerous numerical data points are scattered across the map, often with small circles around them. The word "Rain" is written near the British Isles.

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.



# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.1 ins. and more to 29.8 ins. over Sweden, the Baltic, Germany, the east and south of France, and the Spanish Peninsula.  
Lowest, 28.8 ins. and less, in a depression lying off the northwest of Ireland.

Gradients steep over the western parts of the British Islands, moderate elsewhere.

Barometer falling generally, — most over the western and northwestern parts of Great Britain.

## TEMPERATURE

Highest, 65° at Barmen, 63° at Courmayeur, 59° at Thier and Obergriesbach, 58° at Riedern.

Lowest, (1) 43° at Munich, (2) 49° at Loughborough, Thibault, and (3) 48° to 50° over the north of Sweden.

Daily maxima yesterday, slightly exceeded 60° in several parts of England.

## WIND

SE<sup>2</sup>, light to strong, in Norway, Denmark, and North Germany; SE<sup>3</sup> fresh in Scotland; S<sup>3</sup> over England and Ireland — strong to a gale at the western stations, moderate in the east.

S<sup>2</sup> fresh to strong over the Bay of Biscay.

## WEATHER

Cloudy, or overcast, and very changeable generally. Rain has fallen except in the east of Scotland, and some parts of Sweden and France; at Loughborough the fall has exceeded three quarters of an inch.

## SEA

Very rough in the west and southwest, moderate as a whole elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Depression in west "surging" eastwards, moving northwards.

## FORECASTS

For the 24 hours ending at NOON on 12<sup>th</sup> OCT<sup>r</sup> 1891.

### DISTRICTS.

### FORECASTS.

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

none issued

### DISTRICTS.

### FORECASTS.

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

none issued

### WARNINGS

The SOUTH CONE was hoisted in the W<sup>m</sup> parts of districts 6, 9 and 10, on Saturday and in districts 9 and 10 this morning.

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND		WEA.	SEA		BAR.	THER.		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.85	57	54	SSE	4	o	4	Holyhead ...	29.68	58	54	SSW	2	b	2
Sumburgh Head ...	29.50	53	50	S	3	bc	5	Valencia ...	29.59	56	52	SSW	5	c	3
Stornoway ...	29.44	52	52	SW	6	o	5	Scilly ...	29.73	59	56	SW	2	c	5
Aberdeen ...	29.66	52	49	SSE	3	bc	3	Jersey ...	29.77	61	60	SSW	4	r	3
Shields ...	29.71	53	51	SE	3	r	2	Dungeness ...	29.75	61	61	SW	3	r	2
Ardrossan ...	29.60	56	53	SSW	3	b	2	London ...	29.71	60	59	S.	2	org	8
Malin Head ...	29.50	55	50	S	5	c	3	Yarmouth ...	29.74	60	58	SSE	4	cg	4
Mullaghmore ...	29.53	53	50	SW	5	cp	3	Rocheport ...	29.58	68	65	SW	4	o	4
Belmullet ...	29.50	54	49	WSW	3	o	*								

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

Weather dull and rainy over the greater part of England, as well as over the north of France and the eastern shore of the North Sea. Fine in most other parts of Europe, but foggy at several of the London and German stations. Some improvement taking place later over England and the north of France, but rain again setting in over Ireland at night.

Temperature highest 77° at Malta, 72° at Algiers, and 70° at Barcelona and Tunis; above 60° over Southern Europe generally, and above 55° in the south and east of England, as well as on the eastern shores of the North Sea. Lowest 26° at Archangel, 35° at Moscow, 36° at Kharlov, and 37° at St Petersburg, below 45° in most parts of Russia and also over south Germany. Daily maxima very little above 60° in any part of the United Kingdom, but thermometer exceeding 70° in most parts of France and southern Europe, the highest readings of all being 82° at Madrid and Palermo, and 81° at Bordeaux.

Wind S<sup>3</sup> or SW<sup>3</sup> in our Islands, light or moderate in force generally but strong on our extreme northwest coasts. SE<sup>3</sup> in most other parts of Western Europe, as well as over the northern and central countries. Light from the NE<sup>3</sup> in the south of Russia and also over the greater part of Spain; N<sup>3</sup> in Italy; SE<sup>3</sup> or E<sup>3</sup> in Algeria. No important change occurring during day.

Barometer highest 30.4 ins: and upwards, over the northern and central parts of Russia; 30.1 ins: and upwards in a large anticyclone lying over the whole of Russia and the greater part of Germany. Lowest 29.4 ins: and less in a depression lying off the northwest of Scotland. Very small and shallow disturbance lying off the French coasts in morning, and subsequently moving northwards across England. Large depression approaching the Irish coasts in evening. No important change taking place on Continent.

### EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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" Weekly " " " £1 10 0 "



# DAILY WEATHER REPORT.

for *Monday, 12<sup>th</sup> October,* 1891.  
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 3.)	SHADE TEMP.		Amount of Rainfall.	
	Reading at 32° F. and Sea Level.	Dry.	Direc.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...	29.97	50	SW	4	0	29.92	-10	49	48	0	SSW	4	0	*	50	46	0.04
	Hernösand ...	29.94	50	S	4	0	29.95	-06	49	48	-1	S	4	bc	*	52	45	-
	Stockholm ...	30.03	52	SE	4	0	30.02	-08	54	50	+1	SSE	4	bc	*	59	50	-
	Wisby ...	29.99	53	SSE	4	0	29.98	-07	53	50	-2	SSE	4	b	*	61	48	-
	Bodö ...	29.63	53	W	0	1	29.68	-05	55	53	+1	E	2	c	1	55	50	0.16
	Christiansund	29.56	53	ESE	1	bc	29.43	-11	57	53	+4	ESE	2	r	3	59	50	0.04
	Skudesnaes ...	29.52	57	SSE	7	0	29.38	-18	60	57	+2	SSE	6	0	4	?	53	0.35
	Christiania Fjord (Farder)	29.73	56	SSE	3	0	29.71	-06	56	54	0	ESE	3	c	3	57	55	0.28
	Skagen (The Scaw)	29.72	57	S	5	r	29.64	-11	56	54	0	SSE	6	b	4	57	55	0.04
	Fanö ...	29.63	56	SE	4	c	29.53	-21	55	54	+2	ESE	4	c	*	59	53	0.04
BRITISH ISLANDS.	Sumburgh Head	29.17	50	SSE	5	0	29.09	-31	51	49	+1	SSE	3	0	6	52	45	0.03
	Stornoway ...	28.75	55	SE	6	r	28.91	-20	48	47	-4	S	7	0	6	55	45	0.10
	Wick ...	28.99	53	S	9	ogty	29.05	-25	50	48	0	S	4	b	5	56	49	-
	Nairn ...	28.89	56	SSE	2	0	29.04	-23	49	45	-4	W	0	bc	1	56	45	-
	Aberdeen ...	29.06	52	SE	8	0	29.17	-20	48	45	-4	S	3	b	5	54	45	0.15
	Leith ...	28.99	54	S	4	bc	29.18	-17	49	45	0	SW	2	bcm	*	56	46	0.01
	Shields ...	29.14	55	SE	5	0	29.25	-20	49	46	0	S	2	b	3	56	45	0.01
	Spurn Head ...	29.23	57	SSE	8	og	29.35	-21	49	47	-4	SW	3	c	3	58	48	0.07
	York ...	29.20	56	S	3	0	29.32	-17	45	44	-5	S	1	b	*	57	42	0.02
	Loughborough	29.21	57	SSW	5	0	29.33	-19	46	45	-3	SSW	2	bcw	*	58	44	0.15
GERMANY & HOLLAND.	Ardrossan ...	28.97	53	S	5	op	29.16	-06	50	49	-3	S	4	c	4	56	50	0.10
	Malin Head ...	28.78	51	SSW	7	ogp	29.02	+10	45	43	-8	SSW	6	b	4	55	45	0.09
	Mullaghmore ...	28.85	50	SSW	6	ou	29.10	+17	47	43	-9	SSW	5	bc	5	57	44	0.09
	Belmullet ...	28.80	50	WSW	8	0	29.05	+23	49	45	-4	WSW	3	c	*	54	49	0.25
	Donaghadee ...	28.98	50	S	3	b	29.20	+04	45	43	-9	SW	3	b	2	55	41	0.49
	Liverpool (Bidston)	29.13	54	SSW	3	c	29.31	-08	48	46	-4	SSE	2	bc	2	56	44	0.04
	Holyhead ...	29.07	54	SSW	6	og	29.26	-00	51	46	-3	SW	3	b	3	56	48	0.17
	Parsonstown ...	29.04	49	SW	2	c	29.22	+25	41	40	-14	SE	1	bc	*	56	39	0.29
	Valencia ...	29.10	51	WSW	6	om	29.23	+27	44	43	-10	SSW	3	chtp	3	56	41	0.21
	Roche's Point...	29.12	53	WSW	4	b	29.25	+23	47	45	-6	W	3	bc	4	57	45	0.15
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.17	56	SW	5	c	29.31	+09	52	48	-3	SW	4	bc	5	57	48	0.61
	Scilly ...	29.25	53	WSW	4	cp	29.36	+14	58	50	+3	SW	4	cp	5	60	47	0.38
	Prawle Point ...	29.28	55	SW	5	c	29.39	-07	52	50	-3	WSW	4	cp	2	56	48	0.14
	Jersey (St. Aubin's)	29.39	59	S	5	ou	29.47	-15	54	50	-4	WSW	4	bc	3	60	53	0.34
	Hurst Castle ...	29.32	59	SSW	8	0	29.42	-16	54	53	-3	SW	4	b	3	59	50	0.42
	Dungeness ...	29.40	57	SW	7	og	29.42	-25	53	52	-6	WSW	3	c	3	62	51	0.38
	London ...	29.36	58	SSW	5	r	29.42	-20	48	47	-5	S	1	bcw	*	62	46	0.16
	Oxford ...	29.28	57	SSW	3	0	29.40	-17	47	45	-4	SW	1	b	*	57	45	0.18
	Cambridge ...	29.37	58	S	2	0	29.39	-22	48	48	-4	S	1	c	*	61	45	0.09
	Yarmouth ...	29.40	58	SSE	7	og	29.38	-27	53	52	-2	WSW	2	cm	3	60	51	0.15
PENINSULA.	Cuxhaven ...	29.75	56	SSE	2	b	29.55	-28	55	53	+4	SSE	3	b	*	65	51	-
	Berlin ...	29.78	59	SE	3	bc	29.72	-28	55	52	+2	SE	4	b	*	66	52	-
	Wiesbaden ...	*	*	*	*	*	29.60	-33	53	51	0	W	0	0	*	63	50	-
	Munich ...	29.85	51	NE	2	b	29.67	-36	42	42	-1	W	0	b	*	64	39	-
	The Helder ...	29.53	61	SE	1	c	29.43	-32	59	57	+1	SSE	1	r	1	64	57	0.04
	Brussels (9 a.m.)	*	*	*	*	*	29.44	-34	58	57	-1	SSE	4	0	*	68	57	0.20
	Cape Gris Nez	29.47	60	S	5	r	29.42	-29	55	51	-3	WSW	3	r	4	64	52	0.43
	Paris ...	29.60	67	SSE	4	0	29.50	-32	54	54	-3	W	1	r	*	?	54	0.39
	Brest ...	?	59	W	4	c	?	?	45	47	-10	W	3	c	5	61	45	0.55
	Lorient ...	29.42	50	WSW	5	0	29.51	-15	55	50	-4	W	5	c	5	61	52	0.43
FRANCE AND BELGIUM.	Rochefort ...	29.57	62	WSW	5	r	29.57	-21	59	54	-1	W	4	bc	*	68	55	0.39
	Belfort ...	?	59	W	3	bc	?	?	58	53	+3	W	3	bc	*	72	43	-
	Lyons ...	29.75	64	SSW	4	0	29.62	-33	56	54	?	W	1	r	*	71	56	0.12
	Nice ...	29.93	61	SE	1	bc	29.78	-23	61	57	+3	E	4	0	2	70	55	-
	Perpignan ...	29.70	68	S	1	b	29.58	-34	62	61	-3	W	0	0	*	74	60	-
	Biarritz ...	29.64	73	SW	2	0	29.69	-13	59	56	-2	NW	7	r	5	81	55	0.51
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lisbon ...	29.88	64	SW	4	0	29.91	-09	60	56	-1	WSW	3	c	6	66	59	0.20	

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

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



# WEATHER CHARTS

for 8 a.m. on Monday, 12<sup>th</sup> October, 1891.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP

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

Changes since previous morning are stated in words.

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

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

**SEA DISTURBANCE**—Where considerable, is shown thus:

▨ = Rough. ▩ = High.

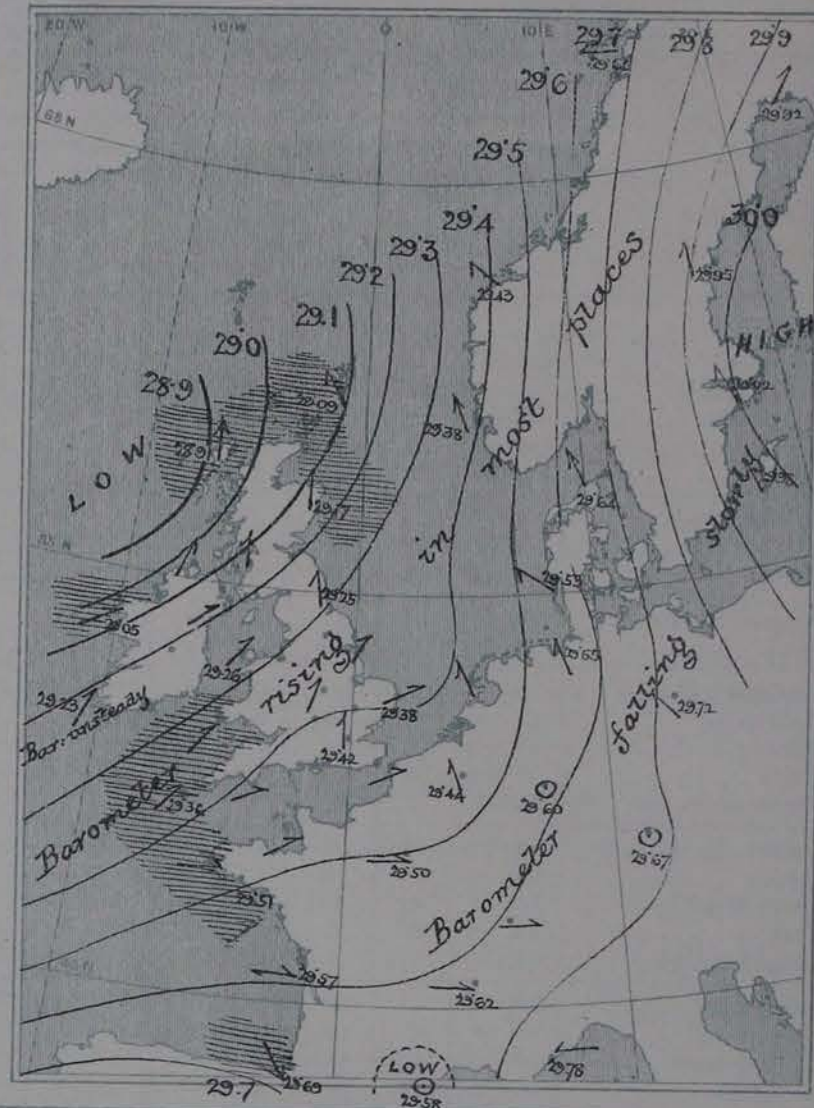
## MEAN HEIGHT OF THE BAROMETER

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

### STATIONS.

### MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head .....	29.726
Stornoway .....	29.756
Wick .....	29.763
Nairn .....	29.779
Aberdeen .....	29.793
Leith .....	29.822
Shields .....	29.846
Spurn Head .....	29.867
York .....	29.882
Loughborough .....	29.904
Ardrossan .....	29.931
Mullaghmore .....	29.945
Donaghadee .....	29.950
Holyhead .....	29.972
Liverpool .....	29.979
Parsonstown .....	29.997
Valencia .....	29.996
Roche's Point .....	29.992
Pembroke .....	29.988
Scilly .....	29.910
Prawle Point .....	29.931
Jersey .....	29.925
Hurst Castle .....	29.924
Dover .....	29.916
LONDON .....	29.923
Oxford .....	29.924
Cambridge .....	29.912
Yarmouth .....	29.894



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

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

**WEATHER** is shown by Letters of the Beaufort Scale.

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

### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of October.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head .....	49.8	41.6	46.0	44.3	4.27
Stornoway .....	51.0	40.5	45.6	44.5	5.04
Wick .....	51.7	40.5	46.3	44.6	3.02
Nairn .....	51.9	40.8	44.8	42.9	2.38
Aberdeen .....	52.5	41.4	45.6	43.0	2.87
Leith .....	54.7	41.8	46.7	44.9	1.97
Shields .....	53.2	42.7	47.2	45.4	2.48
Spurn Head .....	53.3	45.7	48.8	47.3	2.27
York .....	54.5	41.4	45.9	44.5	2.00
Loughborough .....	53.7	41.1	45.0	44.6	2.80
Ardrossan .....	53.7	43.7	47.8	45.8	3.87
Mullaghmore .....	51.2	45.7	49.1	46.9	4.75
Donaghadee .....	53.5	43.6	47.8	46.6	3.14
Holyhead .....	54.7	47.3	50.3	48.3	4.31
Liverpool .....	53.8	44.7	47.8	45.8	3.46
Parsonstown .....	54.8	41.0	46.2	44.5	3.16
Valencia .....	56.5	46.8	51.4	49.2	5.88
Roche's Point .....	56.0	46.1	50.2	48.3	4.09
Pembroke .....	54.9	48.0	51.2	49.2	3.96
Scilly .....	50.8	50.2	53.7	51.6	3.70
Prawle Point .....	56.7	46.2	51.2	49.6	3.60
Jersey .....	58.2	48.6	53.3	50.7	4.45
Hurst Castle .....	57.1	45.8	50.8	49.2	3.28
Dover .....	56.1	46.2	50.2	48.2	3.22
LONDON .....	56.7	42.7	47.5	45.9	2.57
Oxford .....	55.5	42.2	46.2	44.9	2.56
Cambridge .....	56.5	41.0	46.4	45.3	2.27
Yarmouth .....	54.3	44.6	49.0	47.6	2.92

**NOTE**—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.0 ins. and more, to 29.7 ins. over the Baltic and Sweden; 29.2 ins. and more to 29.7 ins. over the Spanish Peninsula  
lowest, 28.2 ins. and less, off the extreme northwest of Scotland.

Gradients moderate to slight and very variable.

Barometer very unsteady—apparently beginning to fall again in Ireland.

## TEMPERATURE

Highest, 61° to 62° in the south of France and 60° at Kuckersnaes; 58° at Scilly, 52° to 54° at most of the Channel stations.

lowest, 41° at Larne, 44° at Valencia Island, 45° at Belmullet, Donaghadee, and Port, 47° at Oxford.

It has fallen fast over Ireland and somewhat decidedly over England during the night.

## WIND

Moderate from the SE<sup>nd</sup> over Scandinavia and Denmark, from S. and SW. over England, from WSW in the Channel, and from SW. over the south of Ireland.

On our extreme northwestern coast it is strong to a gale from S., while in the Bay of Biscay it is W<sup>1</sup> to NW<sup>1</sup>.

## WEATHER

Fine and bright over the major part of Great Britain, but with a very unsettled appearance in London, where a very distinct halo is visible. In the east it is dull and showery.

Rain fall has been general but not large.

## SEA

Rough in the north, rather so in the west and southwest, slight in the southeast and east.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A large depression travelled in a northerly direction outside our western coasts yesterday, while a secondary system has passed across the southern and central parts of England in the night. Strong S<sup>1</sup> winds or gales have been very prevalent in all parts of the Kingdom, and have been accompanied by rain. Temperature was rather high and the air very close. These disturbances are now travelling away, but the conditions are still of an unsettled type and new systems will probably appear in the west and southwest shortly.

## FORECASTS

For the 24 hours ending at NOON on 13<sup>th</sup> OCT<sup>r</sup> 1891.

### DISTRICTS.

### FORECASTS.

0 SCOTLAND  
NORTH

S<sup>1</sup> winds, moderate to strong;  
unsettled, showery.

1 SCOTLAND  
EAST

S<sup>1</sup> winds, light to fresh; changeable  
showery.

2 ENGLAND  
N.E.

3 ENGLAND  
EAST

4 MIDLAND  
COUNTIES

S<sup>1</sup> to SW<sup>1</sup> winds, moderate;  
changeable, showers.

5 ENGLAND  
SOUTH

### DISTRICTS.

### FORECASTS.

6 SCOTLAND  
WEST

7 ENGLAND  
N.W.

8 ENGLAND  
S.W.

9 IRELAND  
NORTH

10 IRELAND  
SOUTH

S<sup>1</sup> and SW<sup>1</sup> winds, force doubtful  
at present, but probably strong;  
squally, showery, unsettled.

### WARNINGS

The signals have all been lowered  
this morning

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

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.58	55	54	SE	4	0	5	Holyhead ...	29.00	56	55	S	8	7 q m	7
Sumburgh Head								Valencia ...							
Stornoway ...	28.91	55	54	NE	14	0	4	Scilly ...							
Aberdeen ...								Jersey ...	29.45	60	58	SSW	6	7	5
Shields ...								Dungeness ...	29.54	61	60	SW	5	60	4
Ardrossan ...								London ...							8
Mulin Head ...	28.78	53	52	S	5	0	3	Yarmouth ...							
Mullaghmore ...								Rocheport ...	29.67	66	64	SSW	4	0	2
Belmullet ...	28.79	53	48	SW	8	6	*								

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

Weather fair at some of our eastern and southeastern stations, but dull over the greater part of the United Kingdom, with rain in the west. Rainy also in the west of Norway and dull at many of the French stations but fine in most other parts of the Continent. Fog still reported over the central parts of Sweden and mist in some parts of Germany. Considerable falls of rain taking place later over the greater part of western Europe, but weather improving somewhat in the west and southwest of our Islands.

Temperature highest 72° at Palma, 71° at Barcelona, and 70° at Malta and Alesmale, above 60° over southern Europe generally and above 55° over the extreme south of England and also on the eastern shores of the North Sea. Lowest 34° at Archangel, 36° at Hermanstadt, 37° at St. Petersburg, 39° at Riga, and 40° at Moscow, below 45° at most of the Russian stations, and also in some parts of Germany and Austria. Daily maxima below 60° in all but the extreme southern parts of our Islands but thermometer exceeding 70° at many of the French stations, and reaching 81° at Biarritz.

Wind S<sup>3</sup> or SE<sup>2</sup> in nearly all parts of western, northern and central Europe. Strong to a gale in force over the west of our Islands and also in the south of Norway. Somewhat variable over the southern and eastern parts of the Continent, but chiefly E<sup>2</sup> or NE<sup>2</sup>, very variable at the Mediterranean stations - S<sup>2</sup> gales spreading later to nearly all parts of the United Kingdom but wind veering to the SW<sup>2</sup> on our western coasts and moderating in strength.

Barometer highest 30.5 ins. and upwards over Central Russia; 30.1 ins. and upwards in an anticyclone covering the whole of Russia and the eastern parts of the Baltic. Lowest 28.8 ins. and less in a deep depression lying off the west of Ireland; gradient steep over all the more western parts of our Islands. Depression subsequently moving northwards and barometer rising again on our southwest coasts.

### SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 4<sup>TH</sup> TO 10<sup>TH</sup> OCT. 1891.

At the commencement of this week the weather over western Europe including by far the greater part of the British Islands, was fine generally with cold dewy nights over the inland districts, but comparatively warm day temperatures and S<sup>2</sup> to SW<sup>2</sup> winds. In the extreme west of Ireland, however, heavy rain fell, caused by depressions moving in a northerly direction outside our extreme western coasts. As this series of disturbances continued and spread eastwards the rains became more general, and on Monday were very heavy over our southwestern, western and extreme northwestern districts. On Tuesday some secondary systems caused falls of an inch and more as far east as Hurst Castle, Oxford and Loughborough and smaller quantities in all other parts of the Kingdom. The remainder of the week was unsettled and showery generally. The wind has been SE<sup>2</sup> to SW<sup>2</sup> and has at times blown very hard in the west and north, strongly in all other districts. Thunder and lightning have occurred from time to time, and, taken as a whole the weather of the week has been of a very unsettled character, and on some occasions the barometer has fallen to below 29 ins. at our extreme western and northwestern stations.

### EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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

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

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„ Weekly „ „ „ £1 10 0 „



# DAILY WEATHER REPORT.

for Tuesday 13<sup>th</sup> OCTOBER

1891.

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

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 3.)	SHADE TEMP.			
	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 ...	30.00	50	SW	4	0	30.06	+ .14	47	46	- 2	W	4	c	*	50	46	-
	Hernösand ...	30.04	48	S	2	0	30.02	+ .07	46	46	- 3	Z	4	f	*	54	46	-
	Stockholm ...	30.02	52	SE	4	0	29.95	- .07	50	48	- 4	SE	4	b	*	59	50	-
	Wisby ...	29.96	54	SE	6	0	29.88	- .10	50	47	- 3	SSE	4	b	*	61	48	-
	Bodö ...	29.67	57	E	2	0	29.68	+ .01	56	?	+ 1	E	3	b	2	59	55	-
	Christiansund	29.44	62	SE	6	0	29.47	+ .04	57	49	0	SE	6	bc	3	63	57	-
	Skudesnaes ...	29.41	59	SSE	7	0	29.51	+ .10	51	50	- 9	E	4	o	4	60	50	1.54
	Christiania Fjord (Færder)	29.70	56	E	5	0	29.65	- .05	53	51	- 3	ESE	6	c	3	59	52	-
	Skagen (The Scaw)	29.61	55	SSE	7	0	29.59	- .02	56	54	0	SSE	6	c	5	59	54	-
	Fanö ...	29.44	57	ESE	4	0	29.55	+ .11	53	52	- 2	Z	0	r	*	63	?	0.12
BRITISH ISLANDS.	Sumburgh Head	29.23	49	SSE	3	0	29.29	+ .06	50	50	- 1	SSE	3	bc	5	54	48	-
	Stornoway ...	29.07	48	S	7	0	29.12	+ .05	49	48	+ 1	S	7	bc	6	50	43	0.12
	Wick ...	29.20	48	Z	0	0	29.25	+ .05	49	47	- 1	S	4	bc	3	57	43	-
	Nairn ...	29.19	48	SW	1	0	29.22	+ .03	46	43	- 3	Z	0	bc	1	56	39	-
	Aberdeen ...	29.28	49	S	3	0	29.30	+ .02	46	44	- 2	S	2	c	3	53	36	-
	Leith ...	29.29	52	SW	2	0	29.27	+ .02	45	44	- 4	SE	3	c	*	57	42	0.01
	Shields ...	29.34	52	SSW	2	0	29.34	+ .00	43	42	- 6	SSW	2	c	2	57	39	-
	Spurn Head ...	29.39	52	S	2	0	29.39	+ .00	49	48	- 0	SSE	3	cp	3	57	46	0.01
	York ...	29.37	50	SSW	2	0	29.36	+ .01	46	45	+ 1	SE	1	o	*	57	38	0.03
	Loughborough	29.38	46	Z	0	0	29.38	+ .00	45	45	- 1	SSE	2	c	*	61	41	0.08
BRITISH ISLANDS.	Ardrossan ...	29.25	52	S	3	0	29.21	+ .04	45	44	- 5	E	2	c	1	53	41	-
	Malin Head ...	29.15	45	S	4	0	29.09	+ .06	41	39	- 4	SSE	4	bc	4	52	39	-
	Mullaghmore ...	29.18	46	S	4	0	29.05	- .13	45	42	- 2	ESE	5	og	4	51	42	-
	Belmullet ...	29.17	47	WSW	3	0	28.95	- .22	43	42	- 6	SSE	3	o	*	51	42	0.49
	Donaghadee ...	29.25	47	SSW	4	0	29.21	+ .04	42	41	- 3	SSW	3	b	1	54	37	0.09
	Liverpool (Bidston)	29.36	48	SSE	1	0	29.32	+ .04	43	42	- 5	SE	3	c	3	55	42	0.04
	Holyhead ...	29.31	48	SSE	2	0	29.22	- .09	50	48	- 1	SSE	5	cpq	4	56	45	0.29
	Parsonstown ...	29.26	43	Z	0	0	29.02	- .24	46	44	+ 5	SE	1	o	*	58	36	0.13
	Valencia ...	29.27	50	SW	2	0	28.81	- .46	50	49	+ 6	E	6	rmg	6	54	43	0.32
	Roche's Point...	29.31	48	WSW	4	0	28.93	- .38	53	53	+ 6	SSE	8	r	5	53	47	0.30
BRITISH ISLANDS.	Pembroke (St. Ann's Hd.)	29.35	50	WSW	4	0	29.17	- .18	53	52	+ 1	SSE	7	opg	5	55	48	0.30
	Scilly ...	29.35	51	WSW	4	0	29.08	- .27	54	54	- 4	SSE	7	r	5	58	48	0.36
	Prawle Point ...	29.43	51	WSW	3	0	29.34	- .09	53	51	+ 1	S	6	rg	5	55	42	0.12
	Jersey (St. Aubin's)	29.51	54	SW	3	0	29.50	+ .01	55	52	+ 1	SSE	5	opmw	5	60	51	0.13
	Hurst Castle ...	29.47	54	W	4	0	29.44	+ .03	55	54	+ 1	SSE	6	og	4	59	49	0.29
	Dungeness ...	29.48	55	W	5	0	29.48	+ .00	54	50	+ 1	WSW	5	c	4	61	52	0.10
	London ...	29.46	49	SW	1	0	29.48	+ .02	48	46	- 0	SW	2	bcw	*	61	44	0.09
	Oxford ...	29.44	46	SW	1	0	29.43	+ .01	44	43	- 3	S	2	b	*	57	42	0.07
	Cambridge ...	29.43	55	S	1	0	29.45	+ .02	49	48	+ 1	S	2	b	*	61	41	0.05
	Yarmouth ...	29.44	54	SSW	3	0	29.46	+ .02	52	50	- 1	S	4	c	4	59	47	0.06
GERMANY & HOLLAND.	Cuxhaven ...	29.47	58	SSE	2	0	29.60	+ .13	55	54	0	SW	2	r	*	67	53	0.12
	Berlin ...	29.62	56	SE	4	0	29.61	- .01	48	46	- 7	SE	3	b	*	66	46	-
	Wiesbaden ...	*	*	*	*	*	29.73	+ .13	52	51	- 1	Z	0	r	*	64	50	0.12
	Munich ...	29.60	52	SW	2	0	29.73	+ .13	50	49	+ 8	WNW	4	o	*	64	42	-
	The Helder ...	29.52	55	SW	1	0	29.58	+ .06	50	49	- 9	SSE	1	c	1	59	?	0.39
	Brussels (9 a.m.)	*	*	*	*	*	29.63	+ .19	49	47	- 9	SSE	4	b	*	58	44	0.08
	Cape Gris Nez	29.49	56	WSW	5	0	29.49	+ .00	49	47	- 6	S	4	c	4	61	45	-
	Paris ...	29.60	53	SSE	1	0	29.67	+ .07	49	47	- 5	S	3	r	*	60	43	-
	Brest ...	?	53	SW	5	0	?	?	57	55	+ 8	S	6	r	6	59	49	0.08
	Lorient ...	29.52	53	W	5	0	29.50	- .02	57	54	+ 3	S	6	r	6	59	52	0.12
FRANCE AND BELGIUM.	Rochefort ...	29.64	57	W	4	0	29.65	+ .01	54	53	- 5	S	4	o	*	64	52	0.08
	Belfort ...	?	59	W	3	0	?	?	57	50	- 1	W	3	c	*	66	43	0.20
	Lyons ...	29.68	51	WSW	1	0	29.83	+ .15	45	44	- 11	W	1	c	*	57	43	1.58
	Nice ...	29.61	57	E	6	0	29.54	- .07	58	55	- 3	NE	1	c	4	61	54	1.86
	Perpignan ...	29.69	57	W	2	0	29.79	+ .10	57	50	- 5	WNW	2	b	*	70	49	0.28
	Biarritz ...	29.77	62	WNW	4	0	29.75	+ .02	56	50	- 3	S	4	b	5	66	54	0.39
	Corunna ...	*	*	*	*	*	29.97	+ .06	64	60	+ 4	SSW	4	b	4	68	60	-
	Lisbon ...	29.99	62	SW	3	0	29.97	+ .02	64	60	+ 4	SSW	4	b	4	68	60	-
	Peninsular	*	*	*	*	*	29.97	+ .06	64	60	+ 4	SSW	4	b	4	68	60	-
	Peninsular	*	*	*	*	*	29.97	+ .06	64	60	+ 4	SSW	4	b	4	68	60	-

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

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



# WEATHER CHARTS

for 8 a.m. on Tuesday, 13<sup>th</sup> October, 1891.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

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

**SEA DISTURBANCE**—Where considerable, is shown thus:

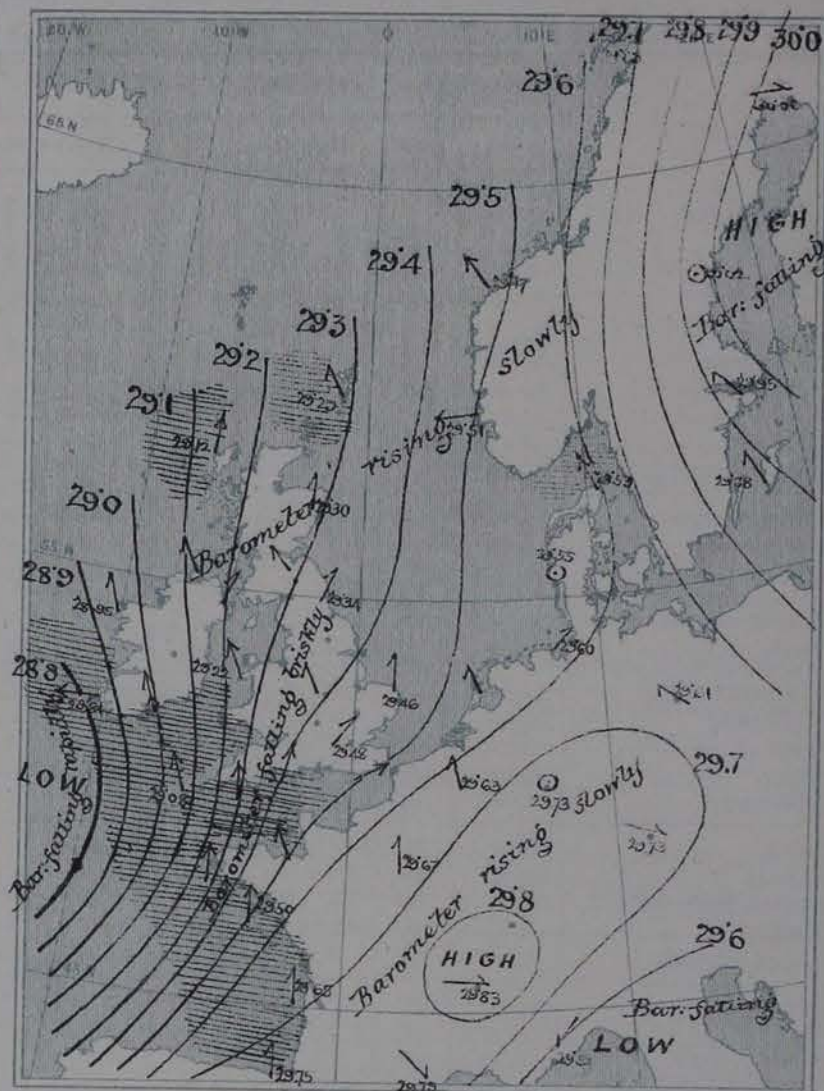
⊞ = Rough. ⊞ = High.

## MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of October

During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.726
Stormway	29.756
Wick	29.763
Nairn	29.779
Aberdeen	29.793
Leith	29.822
Shields	29.846
Spurn Head	29.867
York	29.882
Loughborough	29.904
Ardrossan	29.831
Mullaghmore	29.845
Donaghadee	29.850
Holyhead	29.872
Liverpool	29.879
Parsonstown	29.897
Valencia	29.896
Roche's Point	29.892
Penbrooke	29.898
Scilly	29.910
Prawle Point	29.931
Jersey	29.925
Hurst Castle	29.922
Dover	29.910
LONDON	29.923
Oxford	29.924
Cambridge	29.912
Yarmouth	29.894



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

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

**WEATHER**—is shown by Letters of the Beaufort Scale.

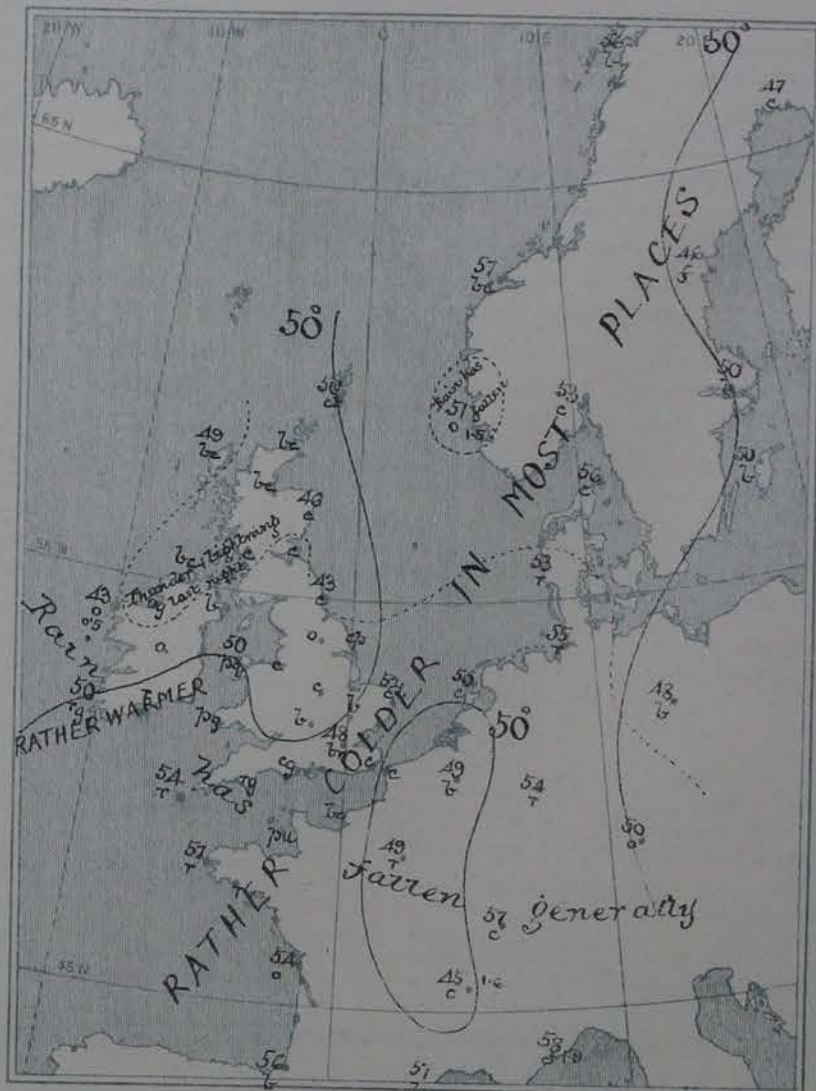
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of October.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	RE 8 A.M. Dry.	Wet.	
Sumburgh Head	49.8	41.6	46.0	44.3	4.27
Stormway	51.0	40.5	45.6	44.5	5.04
Wick	51.7	40.5	46.3	44.6	3.02
Nairn	51.9	40.8	44.8	42.9	2.38
Aberdeen	52.5	41.4	45.6	43.6	2.87
Leith	54.7	41.8	46.7	44.9	1.97
Shields	53.2	42.7	47.2	45.4	2.48
Spurn Head	53.3	45.7	48.8	47.3	2.27
York	54.5	41.4	45.9	44.5	2.60
Loughborough	53.7	41.1	45.9	44.6	2.80
Ardrossan	53.7	43.7	47.8	45.8	2.87
Mullaghmore	54.2	45.7	49.1	46.9	4.75
Donaghadee	53.6	43.6	47.8	46.6	3.14
Holyhead	54.7	47.3	50.3	48.3	4.31
Liverpool	53.8	44.7	47.8	46.8	3.46
Parsonstown	54.8	41.0	46.2	44.5	3.16
Valencia	55.6	46.8	51.4	49.2	5.88
Roche's Point	56.0	46.1	50.2	48.3	4.09
Penbrooke	54.9	48.0	51.2	49.2	3.96
Scilly	56.6	50.2	53.7	51.6	3.70
Prawle Point	56.7	46.2	51.2	49.6	3.60
Jersey	58.2	48.6	53.3	50.7	4.46
Hurst Castle	57.1	45.8	50.8	49.2	3.28
Dover	56.1	46.2	50.2	48.2	3.22
LONDON	56.7	42.7	47.5	45.9	2.67
Oxford	55.5	42.2	46.2	44.9	2.56
Cambridge	56.5	41.0	45.4	45.3	2.27
Yarmouth	54.3	44.6	49.0	47.6	2.92

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest 30.0 ins. and upwards over the Gulf of Bothnia; 29.9 ins. and upwards in the south of Portugal.  
 Lowest 28.8 ins. and less in a deep depression lying to the southwestward of Ireland.  
 Gradients steep in the southwest, but moderate or slight elsewhere.  
 Barometer falling quickly in the southwest of our Islands and less rapidly in the west and south generally.

## TEMPERATURE

Highest 64° at Lisbon, 58° at Lorient and Nice, and 57° at Christiansund, Brest and Perpignan.  
 Lowest 41° at Malin Head, 42° at Donaghadee, 43° at Shields, Belmullet and Liverpool, and 44° at Oxford.  
 The maxima registered yesterday were below 60° in most parts of the Kingdom, and below 53° at several of our western stations.

## WIND

S<sup>3</sup> or SE<sup>3</sup> in nearly all parts of western Europe; very strong in force on our southwest coasts, with a gale at Roche's Point; strong also at some of the Norwegian stations.  
 Light from the westward over South Germany and Central France, and from the N<sup>W</sup> in the south of France.

## WEATHER

Rainy in the southwest of our Islands and the northwest of France, as well as at Fano, Cuxhaven, Wiesbaden & Paris.  
 Fair or fine in most other localities, but thunder reported at Lumburgh Head.  
 Since yesterday morning rain has fallen at all but our northern stations, heavily in the south of France (1.9 in. at Nice and 1.6 ins. at Lyons).

## SEA

Rough or rather so on all our southwest coasts, as well as off the north of Scotland, but moderate to smooth in the east.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The deep depression in the southwest seems likely to occasion strong winds or gales from the SE<sup>2</sup> or S<sup>2</sup> in nearly all parts of the Kingdom. Its centre will probably travel northwards, but the system is likely to spread out in an easterly direction.

## FORECASTS

For the 24 hours ending at NOON on 14<sup>TH</sup> OCTOBER 1891.

### DISTRICTS.

### FORECASTS.

10	SCOTLAND NORTH	S <sup>3</sup> to SE <sup>3</sup> winds, increasing greatly in force, fair to squally and rainy.
11	SCOTLAND EAST	
2	ENGLAND N.E.	
3	ENGLAND EAST	S <sup>3</sup> winds, increasing in force, squally rainy.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	S <sup>3</sup> winds, increasing to a gale, squally, rainy.

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	{ SE <sup>3</sup> winds, increasing in force, fair to squally and rainy.
7	ENGLAND N.W.	
8	ENGLAND S.W.	{ SE <sup>2</sup> to S <sup>2</sup> gales; squally, rainy.
9	IRELAND NORTH	
10	IRELAND SOUTH	

WARNINGS

The South cone was hoisted early this morning in districts 5. and 7. to 10 and the signals have since been extended to districts 2. and 3.  
Noon. The North Cone has now been hoisted in districts 0, 1, and 6.

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 ...	29.41	58	57	SE	8	r	5	Holyhead ...	29.30	54	48	SSW	2	c	2
Sumburgh Head ...	29.17	51	49	SSW	3	c	6	Valencia ...	29.25	51	47	SSW	3	cf	3
Stornoway ...	29.02	48	48	S	7	r	6	Scilly ...	29.37	56	52	SSW	2	bc	5
Aberdeen ...	29.23	52	47	S	4	bg	5	Jersey ...	29.50	58	51	SW	4	c	4
Shields ...	29.29	50	49	SSW	2	c	2	Dungeness ...	29.44	58	54	W	5	bc	4
Ardrossan ...	29.22	53	50	S	3	bc	2	London ...	29.42	58	53	SW	3	c	*
Malin Head ...	29.10	51	45	SSW	6	c	4	Yarmouth ...	29.41	57	52	SW	3	bc	3
Mullaghmore ...	29.16	49	45	SSW	5	c	4	Rochefort ...	29.62	63	56	W	4	c	?
Belmullet ...	29.13	51	46	WSW	5	c	*								

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

*Weather in morning clear, bright and quiet over the greater part of southeastern and central Europe, and temporarily clear at most of the British and Irish stations; cloudy or overcast elsewhere, with showers in the extreme southwest of the British Islands (hail at Valencia Island) and rain at Christiansund. Rain falling later but not in large quantity, over Ireland, England and the greater part of France, heavy rains in the south of France. Heavy local falls at Skudesnaes also.*

*Temperature falling decidedly over the British Islands. Morning readings highest (70 and more) at Malta and on the Algerian coast, but below 60° over nearly the whole of Europe; below 50° at many inland stations. Locally high over Caithness and in the west of Norway, and as low as (1) 29° at Kharkov, 37° at Kiev, Moscow and St. Petersburg, 39° at Riga; (2) 41° at Partonstown, 45° at Malin Head and York, 47° at Oxford, 48° at London. Rising later to a little above 60° in southeastern and central England, as well as over many parts of the Continent; to 70° at Perpignan. Unsteady and low over England at night.*

*Wind moderate to fresh from between S. and SE. on the eastern shores of the North Sea and from between S. and SW. over the greater part of the British Islands, but strong on our northwest coasts. Moderate to light from west and northwest over France, light SE<sup>2</sup> over central and E<sup>2</sup> over southeastern Europe. No change of importance later.*

*Barometer highest 30.6 ins. and more to 30.0 ins. in a large anticyclone covering Russia; 29.9 ins. to 29.7 ins. over the Spanish Peninsula. Lowest 28.9 ins. and less in a depression off our extreme northwest coasts; shallow secondary disturbances over England and the North Sea. Rising over our Islands till evening when a very slight fall set in at Scilly.*

### EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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

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

„ Weekly „ „ „ £1 10 0 „



# DAILY WEATHER REPORT.

for Wednesday, 14<sup>th</sup> October, 1891.

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

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.  Reading at 32° F. and Sea Level.	TEMP.  Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.			
			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 ...	30.07	37	Z	0	6	129.93	-13	41	40	-6	SSE	4	bc	*	50	37	-
	Hernösand ...	29.96	47	SW	2	6	129.72	-30	48	47	+2	SE	6	0	*	52	37	-
	Stockholm ...	29.84	50	SSE	2	0	129.72	-23	54	52	+4	SSE	4	0	*	61	48	-
	Wisby ...	29.80	53	SE	4	c	129.77	-11	54	53	+4	SE	4	0	*	54	46	-
	Bodö ...	29.78	51	E	4	6	129.53	-15	49	46	-7	SE	6	c	*	50	48	-
	Christiansund	29.48	52	W	2	c	129.04	-43	56	49	-1	ESE	6	bc	3	?	50	-
	Skudesnaes ...	29.37	54	SE	7	bc	28.90	-61	51	50	0	S	7	1	6	55	50	0.75
	Christiania Fjord (Færdar)	29.56	54	ESE	5	r	29.32	-33	54	53	+1	ESE	8	r	4	55	52	0.28
	Skagen (The Scaw)	29.55	56	SW	1	0	29.37	-22	54	52	-2	S	8	r	5	57	50	0.32
	Fanö ...	29.50	50	SE	6	c	29.28	-27	52	52	-1	SE	8	r	*	58	50	0.32
BRITISH ISLANDS.	Sumburgh Head	29.10	50	SSE	4	0												
	Stornoway ...	28.72	49	SE	6	0	28.30	-82	46	46	-3	SW	8	1	6	52	44	0.20
	Wick ...	28.93	48	ESE	8	0	28.49	-76	48	46	-1	SSW	8	bc	8	56	44	0.36
	Nairn ...	28.71	50	SE	2	c	28.51	-71	48	48	+2	SW	4	b	4	62	41	0.14
	Aberdeen ...	28.84	49	SE	8	opqy	28.74	-56	48	44	+2	SSW	6	bcy	6	54	46	0.36
	Leith ...	28.66	47	ESE	5	r	28.80	-47	48	43	+3	SW	5	b	*	55	34	0.22
	Shields ...	28.74	50	SE	9	r	28.97	-37	50	45	+7	SSW	4	c	5	56	43	0.25
	Spurn Head ...	28.90	50	SSE	10	rg	29.19	-20	49	45	0	SW	7	bc	5	57	44	0.31
	York ...	28.84	51	SE	7	r	29.11	-25	46	44	0	S	3	b	*	57	43	0.74
	Loughborough	28.89	57	SSW	7	c	29.24	-14	46	44	+1	SW	4	b	*	57	44	0.61
GERMANY & HOLLAND.	Ardrossan ...	28.28	50	E	7	ru												
	Malin Head ...	28.08	44	ESE	10	0	28.63	-46	45	43	+4	SSW	7	cu	4	48	40	0.48
	Mullaghmore ...	28.33	45	NW	6	org	28.78	-27	45	43	0	SW	5	rg	4	49	43	1.12
	Belmullet ...	28.46	46	W	3	r	28.75	-20	49	45	+6	W	6	c	*	49	42	0.78
	Donaghadee ...	28.13	52	SW	8	0	28.87	-34	46	44	+4	SW	6	bc	4	55	39	0.84
	Liverpool (Bidston)	28.69	56	SSW	7	b	29.11	-21	47	45	+4	SSE	3	c	4	59	43	0.33
	Holyhead ...	28.57	56	SW	10	cqym	29.01	-21	51	48	+1	SW	9	cqymtl	7	57	47	0.35
	Parsonstown ...	28.53	50	SW	4	0	28.93	-09	47	44	+1	SW	2	c	*	57	43	0.37
	Valencia ...	28.75	51	W	6	cu	29.03	+22	50	46	0	WSW	7	cqtl	6	55	45	0.78
	Roche's Point...	28.75	53	W	7	c	29.07	+14	51	50	-2	WSW	6	c	6	57	46	0.90
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)																	
	Scilly ...	28.93	58	SSW	6	0	29.37	+29	55	52	+1	SW	8	c	6	61	51	0.35
	Prawle Point...																	
	Jersey (St. Aubin's)	29.22	61	S	8	0	29.62	+12	58	53	+3	WSW	6	bmv	6	63	54	0.46
	Hurst Castle ...	29.10	60	SW	10	cr	29.47	+03	57	56	+2	WSW	10	bc	6	62	51	0.41
	Dungeness ...	29.24	56	S	2	r	29.49	+01	59	57	+5	W	10	c	8	60	47	0.60
	London ...	29.11	56	S	7	oqyp	29.46	-02	52	47	+4	WSW	4	b	*	60	47	0.29
	Oxford ...	29.03	57	SSW	5	c	29.37	-06	50	46	+6	SSW	3	b	*	59	44	0.24
	Cambridge ...	29.13	55	S	3	b	29.39	-06	52	48	+3	S	4	b	*	60	48	0.34
	Yarmouth ...	29.22	53	SSE	8	rgqj	29.35	-11	51	48	-1	WSW	7	bcqj	5	56	50	0.06
PENINSULA.	Cuxhaven ...	29.67	55	SSW	3	c	29.48	-12	55	54	0	SSW	5	c	*	57	53	0.16
	Berlin ...	29.77	56	W	2	r	29.79	+18	52	50	+4	S	3	c	*	61	48	0.04
	Wiesbaden ...	*	*	*	*	*	29.82	+09	51	50	-1	Z	0	0	*	61	48	0.04
	Munich ...	29.90	48	SE	3	c	30.08	+28	44	43	-6	SSW	3	b	*	52	39	0.04
	The Helder ...	29.43	52	S	6	r	29.35	-23	59	55	+9	SW	7	c	4	59	50	0.24
	Brussels (8 a.m.)	*	*	*	*	*	29.61	-02	58	53	+9	SW	6	0	*	63	49	0.04
	Cape Gris Nez	29.28	55	S	8	0	29.45	-04	57	51	+8	SW	9	bc	9	59	48	0.51
	Paris ...	29.60	55	SE	5	0	29.72	+05	57	55	+8	SSW	4	r	*	58	49	0.08
	Brest ...	?	62	SW	6	f	?	?	57	54	0	WSW	7	c	7	63	46	0.63
	Lorient ...	29.33	60	SW	7	r	29.69	+19	59	53	+1	W	6	c	7	63	57	1.10
GERMANY & HOLLAND.	Rochefort ...	29.60	61	S	6	r	29.82	+17	61	57	+7	W	5	r	2	61	54	0.28
	Belfort ...	?	59	W	2	bc	?	?	55	50	-2	N	1	c	*	65	43	0.04
	Lyons ...	29.83	55	SSW	2	0	29.95	+12	52	49	+7	ESE	1	b	*	62	45	-
	Nice ...	29.80	59	SSE	1	b	29.99	+45	59	55	+1	E	2	b	2	68	54	-
	Perpignan ...	29.85	57	SE	1	b	29.97	+18	59	50	-7	SW	1	b	*	72	48	-
	Biarritz ...	29.73	67	SSW	4	b	29.94	+19	66	63	+10	NNW	6	0	4	68	56	-

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

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



# WEATHER CHARTS

for 8 a.m. on Wednesday 14<sup>th</sup> Oct. 1891.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP

**BAROMETER**—Isobars are drawn for each tenth of an inch.  
Changes since previous morning are stated in words.  
**WIND**—Arrows show the prevalent winds. They fly with the wind and their bars and feathers refer to force thus—  
→ forces above 10 → forces 8 to 10.  
→ forces 5 to 7 → forces 1 to 4.  
○ dead calm.  
**SEA DISTURBANCE**—Where considerable, is shown thus.  
▨ = Rough. ▩ = High.

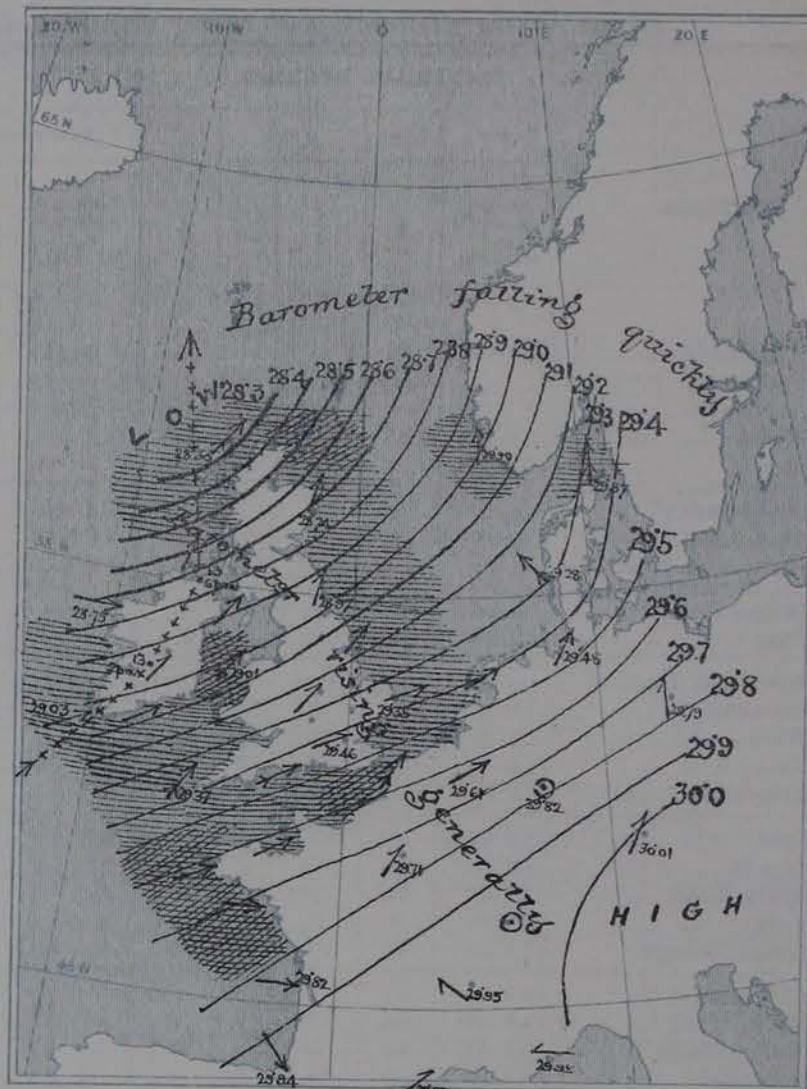
### MEAN HEIGHT OF THE BAROMETER

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

#### STATIONS.

#### MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.726
Stornoway	29.756
Wick	29.763
Nairn	29.779
Aberdeen	29.793
Leith	29.822
Shields	29.846
Spurn Head	29.807
York	29.889
Loughborough	29.904
Ardrossan	29.831
Mullaghmore	29.845
Donaghadee	29.850
Holyhead	29.872
Liverpool	29.879
Parsonstown	29.897
Valencia	29.866
Roche's Point	29.892
Pembroke	29.888
Scilly	29.910
Prawle Point	29.931
Jersey	29.925
Hurst Castle	29.921
Dover	29.916
LONDON	29.923
Oxford	29.921
Cambridge	29.912
Yarmouth	29.894



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

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

**WEATHER** is shown by Letters of the Beaufort Scale.

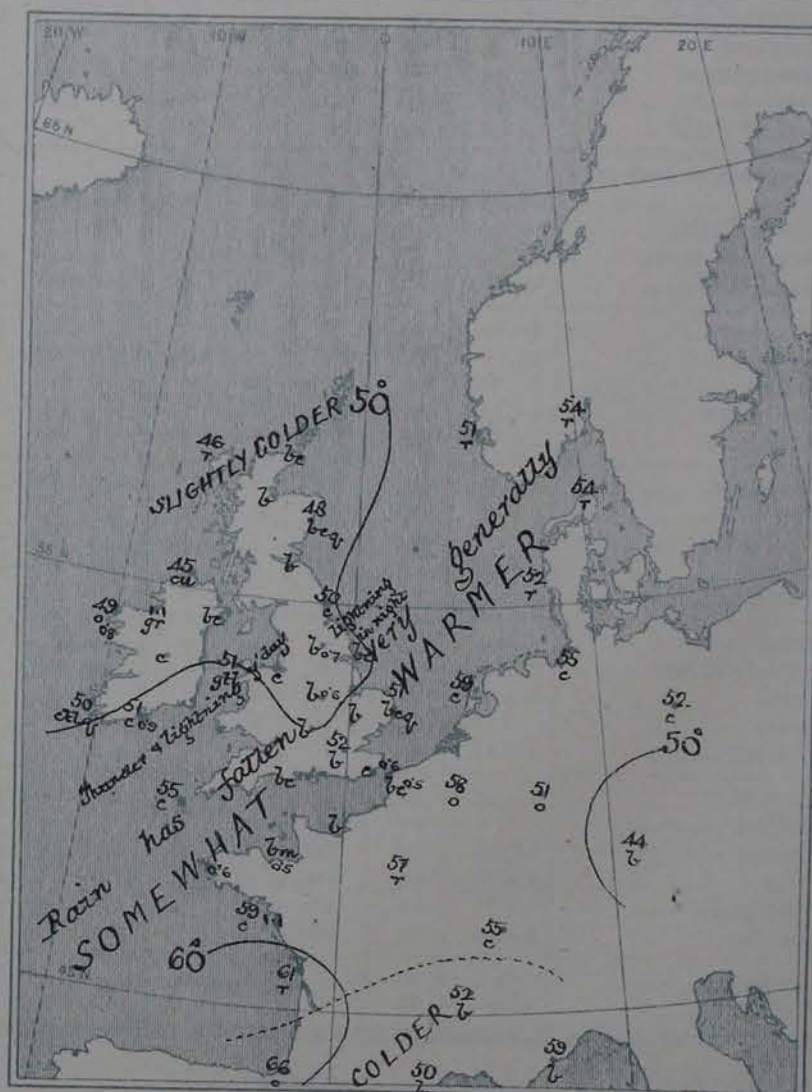
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of October.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	49.8	41.6	46.0	44.3	4.27
Stornoway	51.0	40.5	45.6	44.5	5.04
Wick	51.7	40.5	46.3	44.6	3.02
Nairn	51.9	40.8	44.8	42.9	2.38
Aberdeen	52.5	41.4	45.6	43.6	2.87
Leith	54.7	41.6	46.7	44.0	1.97
Shields	53.2	42.7	47.2	45.4	2.48
Spurn Head	53.3	45.7	48.8	47.3	2.27
York	54.5	41.4	45.9	44.5	2.60
Loughborough	53.7	41.1	45.9	41.6	2.80
Ardrossan	53.7	43.7	47.8	45.8	3.87
Mullaghmore	54.2	45.7	49.1	46.9	4.75
Donaghadee	53.6	43.6	47.8	46.6	3.14
Holyhead	54.7	47.3	50.3	48.3	4.31
Liverpool	53.8	44.7	47.8	45.8	3.46
Parsonstown	54.8	41.0	46.2	41.6	3.16
Valencia	56.6	46.8	51.4	49.2	5.88
Roche's Point	56.0	46.1	50.2	48.3	4.09
Pembroke	54.9	48.0	51.2	49.2	3.96
Scilly	56.6	50.2	53.7	51.6	3.70
Prawle Point	56.7	46.2	51.2	49.6	3.60
Jersey	58.2	48.6	53.3	50.7	4.45
Hurst Castle	57.1	45.8	50.8	49.2	3.28
Dover	56.1	46.2	50.2	48.2	3.22
LONDON	56.7	42.7	47.5	45.9	2.57
Oxford	55.5	42.2	46.2	44.9	2.56
Cambridge	56.5	41.0	46.4	45.3	2.27
Yarmouth	54.3	44.6	49.0	47.6	2.92

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.0 in. and upwards, over South Germany—Probably high in Sweden, but no Scandinavian reports yet received.  
Lowest, 28.3 in. and less, in a deep depression the centre of which lay to the northward of the Hebrides.

Gradients steep over the whole of Northwestern Europe, but inclined to moderate.

Barometer rising over our Islands, France, and Germany, but falling in Denmark, and apparently over Scandinavia also.

## TEMPERATURE

Highest, 66° at Biarritz, 61° at Hockfort, 59° at Dungeness, the Helder, and Lorient, and 58° at Jersey and Brussels.

Lowest, 45° at Malin Head and Mullaghmore, and 46° at Stromway, York, Loughboe and Donaghadee.

The maxima registered yesterday were below 60° in almost all the more northern parts of the Kingdom and below 50° in the north of Ireland.

## WIND

Strong to a gale from the SW<sup>rd</sup> in nearly all parts of the United Kingdom—gale severe in the Channel; moderate off-shore from the same quarter over Germany and the greater part of France.  
S<sup>th</sup> and SE<sup>th</sup> gales reported in Denmark.

During the past 24 hours a strong to whole gale from the S<sup>th</sup> or SW<sup>th</sup> has been experienced in nearly all parts of our Islands.

## WEATHER

Fine at present in the eastern parts of the United Kingdom, but showery in the west, with thunderstorms at Holyhead and Valentia Isl.  
Raining at many of the Continental stations.

Since yesterday morning rain has fallen generally, the largest amounts being 1.1 in. at Mullaghmore and Lorient, 0.9 in. at Hockfort and 0.8 in. at Balmaleet, Donaghadee, and Valentia Island.

## SEA

High or rough on all coasts,—very high in the Strait of Dover and also at Wick.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The barometer is at present rising in the west and southwest, and there are no signs of the approach of any new depressions of importance. Secondary disturbances are, however, likely to advance over our Islands and equally showery weather will probably continue in most places for a time.

## FORECASTS

For the 24 hours ending at NOON on 15<sup>th</sup> OCT<sup>r</sup> 1891.

### DISTRICTS.

### FORECASTS.

⌈ 0	SCOTLAND NORTH	SW <sup>th</sup> gales moderating later; squally, showery.
⌈ 1	SCOTLAND EAST	
⌈ 2	ENGLAND N.E.	
⌈ 3	ENGLAND EAST	SW <sup>th</sup> winds, fresh or strong; squally, some showers.
⌈ 4	MIDLAND COUNTIES	
⌈ 5	ENGLAND SOUTH	SW <sup>th</sup> winds, strong, a gale on coast; squally, some showers.

### DISTRICTS.

### FORECASTS.

⌈ 6	SCOTLAND WEST	SW <sup>th</sup> to S <sup>th</sup> winds, strong, a gale in places; squally, showery.
⌈ 7	ENGLAND N.W.	
⌈ 8	ENGLAND S.W.	
⌈ 9	IRELAND NORTH	
⌈ 10	IRELAND SOUTH	

### WARNINGS

The signals are still flying on all coasts.

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

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND		WEA.	SEA		BAR.	THER.		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudeanaes ...	29.50	55	51	SE	6	0	4	Holyhead ...	28.68	50	48	ESE	5	mj	6
Sumburgh Head ...	29.23	50	49	SSE	4	0	6	Valencia ...	28.60	53	51	W	5	0 q	5
Stornoway ...	29.00	52	51	S	4	0	4	Scilly ...	28.88	60	57	SW	8	0	7
Aberdeen ...	29.14	50	47	SE	5	0 q	5	Jersey ...	29.27	58	57	S	8	0	6
Shields ...	29.12	49	46	SE	3	0	2	Dungeness ...	29.43	56	53	SSW	7	0	5
Ardrossan ...	28.90	49	47	ESE	4	0	3	London ...	29.27	54	52	SSE	6	0 q r	*
Mulin Head ...	28.80	48	47	SE	7	0	4	Yarmouth ...	29.39	56	52	S	6	0 q u	5
Mullaghmore ...	28.51	49	48	ESE	7	0 q	6	Rochefort ...	29.61	59	56	S	6	r	*
Belmullet ...	28.51	47	46	ESE	6	r	*								

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

Weather in morning fine and bright over Ireland, Russia, Poland, eastern and southeastern Europe generally, cloudy more or less and unsettled over the western countries though temporarily clear over the home counties of England; especially rough and unsettled in the southwest of Ireland, where strong squalls and heavy rain had set in. Exceedingly rough and unsettled over Western Europe generally, later - rainfalls at our western stations ranging from 0.5 in. to 1.1 in.:

Temperature changing fitfully. Morning readings exceeding 70° at Palermo, Malta and Algiers only, and exceeding 60° over most parts of the Adriatic, Mediterranean, and Spanish Peninsula; much lower elsewhere. Lowest of all (1) 26° at Kharkov, 28° at Kiev, 33° at Moscow, 37° at Krasnodar and Riga, 38° at St. Petersburg, 39° at Odessa; (2) 43° at Shields and Belmullet, 44° at Oxford, 46° at Rouen, 48° in London. Rising to 60° and more in the south of England and over France later and to 72° at Perpignan.

Wind light and variable over Russia and Central Europe; SE<sup>1</sup> moderate to strong in Norway; SE<sup>1</sup> light over Germany; S<sup>1</sup> over the British Islands and west and north of France - moderate in most places, but beginning to blow a gale on our southwestern coast and at Cornwall, and increasing over Brittany and the Channel. Separate cyclonic circulation, of moderate winds over the northern part of the Mediterranean. Blowing a very severe gale all over the United Kingdom and North Sea later - from between S and W at the more southern stations, and from between E and SE in the northwest and north.

Barometer highest (1) 30.5 in. and more to 30.0 in. in a large anticyclone covering Russia, Finland, and Southeastern Europe; (2) 30.0 in. and more to 29.9 in. over the southern half of the Spanish Peninsula, and exceeding 29.8 in. over the southern half of central France. Lowest (1) 28.8 in. and less, in a deep depression approaching our southwest coast rapidly from the SW<sup>nd</sup>; (2) about 29.5 in. in a smaller and shallower system over the northeastern part of the Mediterranean; (3) 29.6 in. and less, in a small shallow system near Berlin. The depression off our southwest coast moving northeastwards and northwards later. Centre at 6 p.m. over the north of Ireland, where barometer fell to about 28.0 in.

### EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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

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

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„ Weekly „ „ „ £1 10 0 „



# DAILY WEATHER REPORT.

for *Thursday, 15<sup>th</sup> October, 1891.*  
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.  Reading at 32° F. and Sea Level.	TEMP.  Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 6.)	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 ...	29.66	45	S	4	0	29.48	- 4.5	47	46	+ 6	SW	4	6	*	7	36	0.51	
Hernösand ...	29.44	50	SE	10	0	29.53	- 1.9	48	46	0	S	8	6c	*	52	43	-	
Stockholm ...	29.67	54	S	2	0	29.78	+ 0.6	52	48	- 2	SW	4	6	*	59	46	0.04	
Wisby ...	29.80	56	SW	7	6c	29.90	+ 1.3	54	51	0	SW	6	6	*	61	48	-	
Bodö ...	29.12	53	ESE	8	0	29.14	- 3.9	51	45	+ 2	S	4	6c	2	54	46	0.04	
Christiansund	28.99	51	SW	2	0	29.18	+ 1.4	53	46	- 3	SW	4	0	3	59	48	0.28	
Skudesnäs ...	29.60	55	SSW	9	0	29.52	+ 6.2	54	50	+ 2	S	8	0	8	55	52	0.32	
Christiania Fjord (Færdar)	29.46	55	SSW	8	6	29.64	+ 3.2	55	51	+ 1	SE	8	6c	6	55	54	0.32	
Skagen (The Scaw)	29.56	53	SW	7	6c	29.74	+ 3.7	53	50	- 1	SW	6	6	4	59	52	0.16	
Fanö ...	29.67	57	SW	8	6	29.81	+ 5.3	56	53	+ 4	SW	6	6c	*	61	52	0.08	
Sumburgh Head	28.61	49	SSW	8	1	29.08	+ 6.4	50	48	0	SSW	5	6c	7	52	47	0.24	
Stornoway ...	28.67	49	W	7	0	29.09	+ 7.9	47	46	+ 1	W	3	6	4	49	44	0.90	
Wick ...	28.75	48	SSW	7	0	29.20	+ 7.1	49	47	+ 1	SSW	3	0	4	52	45	0.03	
Nairn ...	28.75	48	WSW	5	0	29.18	+ 6.7	45	43	- 3	WSW	1	0	1	53	43	0.03	
Aberdeen ...	28.95	48	SSW	6	cq	29.28	+ 8.4	47	45	- 1	S	3	0.9	5	53	45	-	
Leith ...	29.01	47	SW	5	0	29.26	+ 4.6	46	44	- 2	E	2	7	*	53	44	0.20	
Shields ...	29.21	50	SSW	6	cq	29.22	+ 2.5	51	49	+ 1	S	4	0	3	55	46	0.15	
Spurn Head ...	29.45	52	SSE	6	6c	29.38	+ 1.9	54	52	+ 5	S	9	0	6	57	48	0.20	
York ...	29.37	51	SSW	4	6c	29.29	+ 1.8	51	50	+ 5	S	3	7	*	57	44	0.22	
Loughborough	29.51	49	SW	6	0	29.31	+ 1.0	53	50	+ 7	SSW	5	0	*	58	46	0.16	
BRITISH ISLANDS.																		
Ardrossan ...	29.14	51	SW	5	0	29.22	+ 4.1	50	49	0	SSE	2	0	1	56	48	0.02	
Malin Head ...	29.07	48	SW	5	cq	29.21	+ 5.8	44	43	- 1	S	3	0	3	50	43	0.23	
Mullaghmore ...	29.16	48	SW	5	6c	29.23	+ 4.5	44	42	- 1	SSW	4	6	4	50	42	0.21	
Belmullet ...	29.04	47	WSW	5	0	29.22	+ 4.7	45	43	- 4	W	2	6	*	51	44	0.25	
Donaghadee ...	29.18	48	SW	5	6c	29.27	+ 4.0	44	42	- 2	S	4	0	2	55	42	0.01	
Liverpool (Bidston)	29.38	50	SW	6	0	29.26	+ 1.5	49	47	+ 2	SW	3	0	4	55	46	0.26	
Holyhead ...	29.35	53	WSW	6	cq	29.28	+ 2.7	46	45	- 5	WSW	2	cq	2	56	46	0.60	
Parsonstown ...	29.32	48	SW	1	0	29.30	+ 3.7	39	38	- 8	Z	0	6c	*	54	37	0.14	
Valencia ...	29.39	52	WSW	6	0	29.30	+ 2.7	47	45	- 3	SE	3	0.9	4	54	41	0.20	
Roche's Point...	29.44	52	WSW	5	0	29.33	+ 2.6	45	43	- 6	WSW	2	0	4	54	40	0.20	
Pembroke (St. Ann's Hd.)	29.51	53	SW	7	6c	29.33	+ 1.7	52	50	- 2	WSW	4	cq	6	56	48	0.75	
Scilly ...	29.61	55	SW	6	0	29.41	+ 0.4	51	49	- 4	SSW	6	0	6	56	48	0.57	
Prawle Point ...	29.71	58	WSW	7	0	29.49	+ 0.5	51	47	- 4	WSW	7	7	6	58	48	0.15	
Jersey (St. Aubin's)	29.83	59	WSW	5	6	29.63	+ 0.1	57	54	- 1	SW	6	cqpmu	5	63	54	0.16	
Hurst Castle ...	29.75	56	WSW	9	cq	29.52	+ 0.5	56	55	- 1	SW	9	cq	6	60	52	0.21	
Dungeness ...	29.71	59	WSW	9	cq	29.60	+ 1.1	58	58	- 1	SW	9	0	7	61	56	0.10	
London ...	29.72	50	WSW	3	6	29.52	+ 0.6	56	53	+ 4	SSW	5	0	*	61	49	0.09	
Oxford ...	29.71	49	SW	4	6	29.45	+ 0.8	53	51	+ 3	S	3	0.9	*	60	47	0.28	
Cambridge ...	29.66	49	SW	3	6	29.46	+ 0.7	53	52	+ 1	S	3	0	*	61	46	0.14	
Yarmouth ...	29.61	51	WSW	5	6c	29.57	+ 2.2	53	53	+ 4	SSE	6	cq	6	59	50	0.05	
GERMANY & HOLLAND.																		
Cuxhaven ...	29.76	52	S	5	6	29.94	+ 4.6	48	47	- 7	S	3	6	*	60	46	-	
Berlin ...	29.97	60	SW	2	0	30.08	+ 2.9	54	53	+ 2	SE	2	0	*	66	52	-	
Wiesbaden ...	*	*	*	*	*	29.99	+ 1.7	55	54	+ 4	Z	0	0	*	61	50	-	
Munich ...	30.12	54	SE	2	6	30.06	+ 0.5	45	44	+ 1	WSW	2	6	*	68	41	-	
The Helder ...	29.77	57	SW	6	6	29.78	+ 4.3	49	48	- 10	S	2	6	3	59	48	0.08	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.)	*	*	*	*	*	29.82	+ 2.1	52	50	- 6	SE	4	0	*	62	48	-	
Cape Gris Nez	29.75	58	SW	7	0	29.64	+ 1.9	53	50	- 4	S	6	6	6	59	50	0.04	
Paris ...	29.97	57	S	2	0	29.84	+ 1.2	53	52	- 4	S	2	7	*	62	46	0.04	
Brest ...	?	58	SW	4	0	?	?	57	56	0	SW	6	0	6	61	54	0.51	
Lorient ...	29.89	59	SW	5	0	29.71	+ 0.2	59	55	0	WSW	6	7	8	63	55	-	
Rochefort ...	29.98	61	WSW	3	0	29.86	+ 0.4	61	60	0	SW	4	6c	2	66	55	-	
Belfort ...	?	61	W	3	6c	?	?	62	53	+ 7	W	2	6c	*	68	50	-	
Lyons ...	30.03	62	WSW	1	0	30.01	+ 0.6	59	54	+ 7	S	3	0	*	71	52	-	
Nice ...	30.07	62	SW	1	6	30.11	+ 1.2	61	56	+ 2	Z	0	6	1	72	57	-	
Perpignan ...	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	-	
Biarritz ...	30.01	64	Z	0	0	29.96	+ 0.2	63	62	- 3	W	4	0	5	68	57	-	
PENINSULA.																		
Corunna ...	*	*	*	*	*	30.10	+ 0.6	61	56	- 4	W	1	6c	4	73	59	-	
Lisbon ...	30.08	66	WSW	3	0	?	?	?	?	?	?	?	?	?	?	?	-	

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, 15<sup>th</sup> Oct<sup>r</sup>, 1891.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP.

**BAROMETER**—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

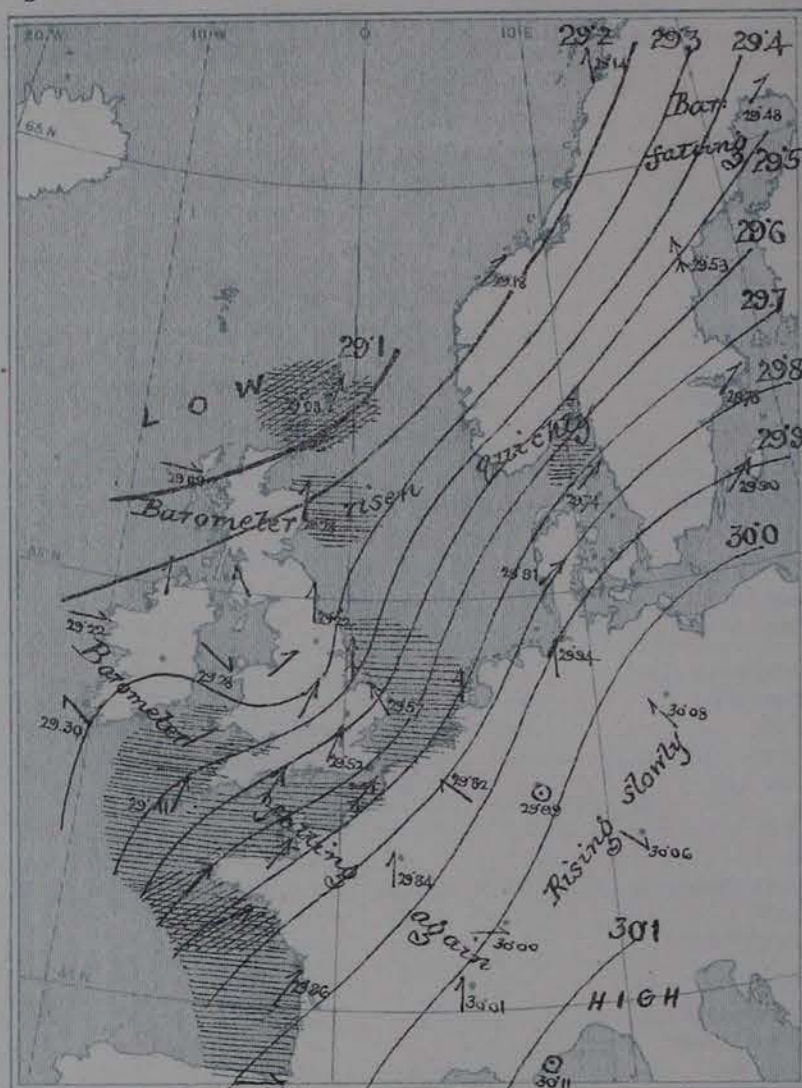
**WIND**—Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus—  
 ——— forces above 10; ——— forces 8 to 10;  
 ——— forces 5 to 7; ——— forces 1 to 4.  
 ○ = dead calm.

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

### MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.726
Stornoway	29.756
Wick	29.763
Nairn	29.779
Aberdeen	29.793
Leith	29.822
Shields	29.846
Spurn Head	29.867
York	29.882
Loughborough	29.904
Ardrossan	29.831
Mullaghmore	29.845
Donaghadee	29.850
Holyhead	29.872
Liverpool	29.879
Parsonstown	29.897
Valencia	29.806
Roche's Point	29.802
Pembroke	29.888
Scilly	29.910
Prawle Point	29.931
Jersey	29.925
Hurst Castle	29.924
Dover	29.916
LONDON	29.923
Oxford	29.924
Cambridge	29.912
Yarmouth	29.894



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

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

**WEATHER**—is shown by Letters of the Beaufort Scale.

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

### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of October.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Dry at 8 a.m.	Wet at 8 a.m.	
Sumburgh Head	49.8	41.6	46.0	44.3	1.27
Stornoway	51.0	40.5	45.6	44.5	5.04
Wick	51.7	40.5	46.3	44.6	3.02
Nairn	51.9	40.8	44.8	42.9	2.38
Aberdeen	52.5	41.4	45.6	43.6	2.87
Leith	54.7	41.8	46.7	44.9	1.97
Shields	53.2	42.7	47.2	45.4	2.48
Spurn Head	53.3	45.7	48.8	47.3	2.27
York	54.5	41.4	45.9	44.5	2.40
Loughborough	53.7	41.1	45.9	44.6	2.80
Ardrossan	53.7	43.7	47.8	45.8	3.87
Mullaghmore	54.2	45.7	49.1	46.9	4.75
Donaghadee	53.6	43.6	47.8	46.6	3.14
Holyhead	54.7	47.3	50.3	48.3	4.31
Liverpool	53.8	44.7	47.8	45.8	3.40
Parsonstown	54.8	41.0	46.2	44.5	3.16
Valencia	56.6	46.8	51.4	49.2	5.88
Roche's Point	56.0	46.1	50.2	48.3	4.09
Pembroke	54.9	48.0	51.2	49.2	3.96
Scilly	56.6	50.2	53.7	51.6	3.70
Prawle Point	56.7	46.2	51.2	49.6	3.60
Jersey	58.2	48.6	53.3	50.7	4.45
Hurst Castle	57.1	45.8	50.8	49.2	3.28
Dover	56.1	46.2	50.2	48.2	3.22
LONDON	56.7	42.7	47.5	45.9	2.57
Oxford	55.5	42.2	46.2	44.9	2.56
Cambridge	56.5	41.0	46.4	45.3	2.27
Yarmouth	54.3	44.6	49.0	47.6	2.92

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.11 in. at Nice, 30.10 in. at Lyons; 30.0 in. and upwards over Spain, the southeast of France and the greater part of Germany.  
 Lowest, 29.1 in. and less, in a depression lying to the northward of Ireland; 29.3 in. and less, in another disturbance approaching the south of Ireland.  
 Gradients rather steep over Scandinavia, the North Sea and the south and east of England, but slight elsewhere.  
 Barometer falling over England, France and the south of Ireland, but rising elsewhere.

## TEMPERATURE

Highest, 63° at Charing, 62° at Belfast, 61° at Dublin, Nice and Lisbon, and 61° at Port and Lyons.  
 Lowest, 39° at Paramouton, 44° at Malin, 44° at Mullaghmore, and 45° at Nain, Belmullet and Hook Point.  
 The maxima registered over our Islands yesterday were below 55° at most of the western and northern stations.

## WIND

Chiefly S or SW and strong to a gale in force in the east and south of England, as well as on the eastern shore of the North Sea.  
 At Valencia Island the wind has backed to SE, while in the southern part of France and Germany it is very variable.

## WEATHER

Dull and showery at many of the English stations, as well as at Valencia Island and in the north of France.  
 Fair or fine in nearly all other parts of Western Europe.  
 The largest amount of rain measured this morning was 0.9 in. at Stornoway, 0.8 in. at Larnake, and 0.6 in. at Holyhead. Heavy rain occurred yesterday in many parts of England and Ireland.

## SEA

High or rough on all our southern and extreme northern coasts.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The new depression which is approaching the south of Ireland is apparently small and of no great depth, but it will probably occasion a continuance of the gale on our southern coasts, with squally, showery weather.

# FORECASTS

For the 24 hours ending at NOON on 16<sup>th</sup> OCT<sup>r</sup> 1891.

## DISTRICTS.

## FORECASTS.

## DISTRICTS.

## FORECASTS.

0	SCOTLAND NORTH	S <sup>2</sup> winds, light or moderate; changeable, some showers.
1	SCOTLAND EAST	
2	ENGLAND N.E.	S <sup>2</sup> winds, fresh or strong; squally, showery.
3	ENGLAND EAST	S <sup>2</sup> winds, strong to a gale; squally, showery.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	

0	SCOTLAND WEST	Same as N° 04.
7	ENGLAND N.W.	SE <sup>2</sup> winds, freshening; dull, rain at times.
8	ENGLAND S.W.	S <sup>2</sup> to SW <sup>2</sup> strong winds and gales; squally, rainy.
9	IRELAND NORTH	SE <sup>2</sup> and E <sup>2</sup> winds, freshening; fair to dull and rainy.
10	IRELAND SOUTH	Same as N° 7.
WARNINGS.		The SOUTH CONE has been re-hoisted this morning in districts 3, 5, and 8.

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.10	53	48	SSW	8	0	7		Holyhead ...	29.20	55	50	SW	6	6
Sumburgh Head ...	28.57	51	48	S	7	c	7		Valencia ...	29.30	51	49	WSW	7	6
Stornoway ...	28.48	48	48	SW	7	r	6		Scilly ...	29.58	55	52	SW	8	6
Aberdeen ...	28.81	51	45	SSW	7	bq	6		Jersey ...	29.77	63	55	WSW	6	6
Shields ...	29.08	52	48	SSW	6	cq p	4		Dungeness ...	29.64	58	58	W	10	8
Ardrossan ...									London ...	29.68	60	54	SSW	7	*
Mulin Head ...	28.67	49	48	WSW	6	0	4		Yarmouth ...	29.50	58	53	SW	5	5
Mullaghmore ...	29.01	49	47	SW	7	og p	6		Rocheport ...	29.95	64	58	WSW	4	c
Belmullet ...	29.04	49	46	WSW	5	op	*								

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

Weather still fine and bright over Russia, southeastern Europe and at most of the Mediterranean stations, exceedingly changeable, squally, rainy, and unsettled over the whole of Northwestern Europe, though very temporarily clear at many of the English stations. Rain later throughout the British Isles (especially in the west), the north of France and on the eastern shores of the North Sea; hail, thunder, and lightning at times in several places. No rain over Germany and the south of France.

Temperatures in morning higher over England and France than on Tuesday, but changing very fitfully, still as high as 70° at Rhénie and Algiers, and exceeding 60° at several of the Mediterranean and Adriatic stations and on the Portuguese coast; above 50° over England, France, and on the eastern shores of the North Sea, lower elsewhere. Lowest (1) 30° at St. Petersburg, and Kiev, 31° at Moscow, 34° at Uleaborg and Nicolaiiff, 39° at Odessa, Kuopio and Archangel; (2) 45° to 48° over Scotland and the north of Ireland. Rising later to a little above 60° over the south of England and still higher over France and Germany, touching 72° at Nice, and 73° at Lyons.

Wind extremely light and anticyclonic over eastern, central, and southern Europe, but blowing very hard in the northwest — WSW<sup>3</sup> over the southern parts of the British Islands, SW<sup>4</sup> in the north, S<sup>4</sup> and SE<sup>5</sup> on the eastern shores of the North Sea, SE<sup>3</sup> to E<sup>3</sup> over the northern half of Scandinavia. Moderating later except in the English Channel, where a very strong gale continued all day. Backing somewhat at Selly in evening, and backing to a strong breeze.

Barometer highest 30.4 ins. and more to 30.0 ins. in the anticyclone over Russia, 30.1 ins. and more in another over Spain, former decreasing latter increasing in intensity. Lowest, 28.3 ins. and less, in a depression passing quickly away to the northward of the Hebrides. Rising over our Islands all day, but some indications of advance of a secondary towards the southwest of England shown by barometer at Selly in evening.

### EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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

“ Weekly “ “ “ £1 10 0 “



# DAILY WEATHER REPORT.

for *Friday, 16<sup>th</sup> October, 1891.*  
 Issued by the Meteorological Office, 63, Victoria Street, London. *R. H. SCOTT, Secretary.*

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.  Reading at 32° F. and Sea Level.	TEMP.  Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.			
			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 ...	29.64	46	S	2	b	29.56	+ 08	43	42	- 4	SE	6	f	*	48	41	-
	Hernösand ...	29.71	49	SW	6	0	29.28	- 25	47	46	- 1	SW	6	o	*	54	45	0.35
	Stockholm ...	29.85	50	SSE	2	b	29.61	- 17	53	48	+ 1	SW	4	c	*	57	46	0.12
	Wisby ...	29.66	53	SSE	4	b	29.83	- 07	53	50	- 1	WSW	6	b	*	61	50	0.24
	Bodö ...	29.40	53	E	2	b	29.26	+ 12	49	45	- 2	E	2	o	*	?	45	-
	Christiansund	29.25	53	SW	2	0	29.25	+ 07	49	47	- 4	W	8	r	6	57	46	0.12
	Skudesnaes ...	29.20	54	SSE	8	0	29.66	+ 14	51	47	- 3	SW	4	c	6	54	48	0.12
	Christiania Fjord (Færder)	29.49	56	SSE	7	r	29.61	- 03	52	48	- 3	WSW	8	b	5	?	52	0.16
	Skagen (The Scaw)	29.47	55	SSE	7	0	29.75	+ 01	51	50	- 2	WSW	4	bc	2	57	48	0.08
	Fanö ...	29.58	54	WSW	8	r	29.84	+ 03	53	49	- 3	WSW	4	b	*	59	50	0.24
	Sumburgh Head	29.06	48	WNW	1	0	29.43	+ 35	48	45	- 2	SSW	2	o	5	51	46	0.08
	Stornoway ...	29.17	46	W	4	r	29.27	+ 18	46	45	- 1	SE	4	o	4	51	35	0.05
	Wick ...	29.18	52	W	3	c	29.33	+ 13	48	46	- 1	S	4	OU	2	52	42	-
	Nairn ...	29.21	43	WSW	2	c	29.30	+ 12	41	40	- 4	ESE	1	r	1	49	36	0.02
	Aberdeen ...	29.28	43	WSW	2	b	29.34	+ 06	46	45	- 1	SE	7	ogru	6	50	35	0.24
	Leith ...	29.32	47	SW	3	b	29.18	- 08	48	47	+ 2	SE	3	o	*	53	39	0.25
	Shields ...	29.40	49	SW	2	cm	29.26	+ 04	53	49	+ 2	SSE	6	c	4	53	40	0.14
	Spurn Head ...	29.50	48	SW	6	cyp	29.43	+ 05	55	52	+ 1	S	8	cyp	6	57	47	0.14
	York ...	29.45	48	SW	2	r	29.35	+ 06	53	50	+ 2	S	4	c	*	56	40	0.13
	Loughborough	29.55	56	SW	6	b	29.41	+ 07	50	48	- 3	S	4	c	*	57	40	0.28
	Ardrossan ...	29.35	50	SW	3	b	29.05	- 17	50	50	0	ESE	5	op	4	57	42	0.17
	Malin Head ...	29.35	46	SW	3	bcy	28.84	- 34	46	46	+ 2	E	7	or	4	50	40	0.42
	Mullaghmore ...	29.36	46	SW	4	0	28.88	- 35	47	46	+ 3	NNE	6	op	5	51	41	0.29
	Belmullet ...	29.36	45	ESE	3	0	29.04	- 18	44	42	- 1	N	7	opq	*	52	41	0.96
	Donaghadee ...	29.41	46	WSW	3	bc	28.90	- 37	50	49	+ 6	SSW	7	r	4	55	44	0.52
	Liverpool (Bidston)	29.51	45	SW	3	0	29.24	- 02	50	45	+ 1	SSE	6	bc	4	53	44	0.16
	Holyhead ...	29.47	48	SW	3	cyp	29.07	- 21	50	47	+ 4	SSW	10	cym	8	54	46	0.33
	Parsonstown ...	29.43	44	Z	0	b	28.91	- 39	41	40	+ 2	Z	0	r	*	50	38	0.31
	Valencia ...	29.36	50	SSW	2	og	29.25	- 05	44	43	- 3	WSW	3	rm	2	52	44	1.08
	Roche's Point...	29.47	49	WSW	2	c	29.19	- 14	46	44	+ 1	W	6	c	6	51	43	0.85
	Pembroke (St. Ann's Hd.)	29.56	54	S	5	c	29.44	+ 03	52	48	+ 1	WSW	7	c	6	57	47	0.28
	Scilly ...	29.72	53	WSW	5	c	29.51	+ 02	52	48	+ 1	SW	7	c	6	55	47	0.10
	Prawle Point ...	29.82	59	WSW	5	bc	29.66	+ 03	56	51	- 1	WSW	6	ogp	5	61	54	0.14
	Jersey (St. Aubin's)	29.77	55	WSW	9	bcy	29.58	+ 06	55	55	- 1	WSW	8	cyp	6	59	46	0.65
	Hurst Castle ...	29.73	55	WNW	7	r	29.60	- 00	59	57	+ 1	SSW	8	ogt	6	60	54	0.13
	Dungeness ...	29.73	50	SW	3	b	29.56	+ 04	54	52	- 2	SW	3	o	*	60	45	0.54
	London ...	29.75	46	SW	3	b	29.51	+ 06	51	47	- 2	SSW	3	bc	*	55	45	0.45
	Oxford ...	29.66	48	SSW	4	b	29.52	+ 06	52	51	- 1	S	3	o	*	58	44	0.26
	Cambridge ...	29.60	51	SW	6	bc	29.57	- 00	56	54	+ 1	S	6	cq	5	56	45	0.14
	Yarmouth ...	29.74	52	SW	1	b	29.94	- 00	45	44	- 3	SSW	3	b	*	60	43	0.28
	Cuxhaven ...	29.89	57	S	3	b	30.11	+ 03	50	48	- 4	S	2	b	*	59	48	0.16
	Berlin ...	*	*	*	*	*	30.00	+ 01	50	49	- 5	Z	0	bc	*	63	46	-
	Wiesbaden ...	30.13	56	SW	2	c	30.06	- 00	54	52	+ 9	SE	4	b	*	66	36	-
	Munich ...	29.74	55	SW	7	b	29.80	+ 02	50	48	+ 1	SE	2	b	3	59	46	0.12
	The Helder ...	*	*	*	*	*	29.77	- 05	56	52	+ 4	SSE	5	o	*	63	46	0.20
	Brussels (9 a.m.)	29.75	57	WSW	7	b	29.61	- 03	53	49	0	S	6	r	6	59	48	0.12
	Cape Gris Nez	29.97	57	SW	2	b	29.84	- 00	53	52	0	SE	2	o	*	65	45	0.04
	Paris ...	?	58	SW	4	0	?	?	54	50	- 3	SW	5	o	6	59	52	-
	Brest ...	29.84	59	SSW	5	0	29.68	- 03	57	51	- 2	W	5	o	6	61	55	0.16
	Lorient ...	29.96	61	S	3	b	29.76	- 10	59	57	- 2	S	4	b	*	68	54	-
	Rochefort ...	30.06	61	S	1	bc	29.94	- 07	63	55	+ 3	S	4	o	*	70	51	-
	Belfort ...	30.11	61	Z	0	b	30.11	- 00	60	55	- 1	E	2	bc	1	72	57	-
	Lyons ...	30.04	65	E	2	0	29.92	- 14	59	59	-	Z	0	o	*	73	59	-
	Nice ...	29.96	66	NNE	3	m	29.82	- 14	64	60	+ 1	W	2	bc	5	70	57	-
	Perpignan ...	*	*	*	*	*	30.12	+ 02	65	59	+ 4	SW	2	b	6	70	61	-
	Biarritz ...	30.05	64	WNW	4	0	30.12	+ 02	65	59	+ 4	SW	2	b	6	70	61	-
	Corunna ...	*	*	*	*	*	30.12	+ 02	65	59	+ 4	SW	2	b	6	70	61	-
	Lisbon ...	30.05	64	WNW	4	0	30.12	+ 02	65	59	+ 4	SW	2	b	6	70	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 Friday, 16<sup>th</sup> October, 1891.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP

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

Changes since previous morning are stated in words.

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

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

**SEA DISBURRANCE**—Where considerable, is shown thus:

▨ = Rough. ▨ = High.

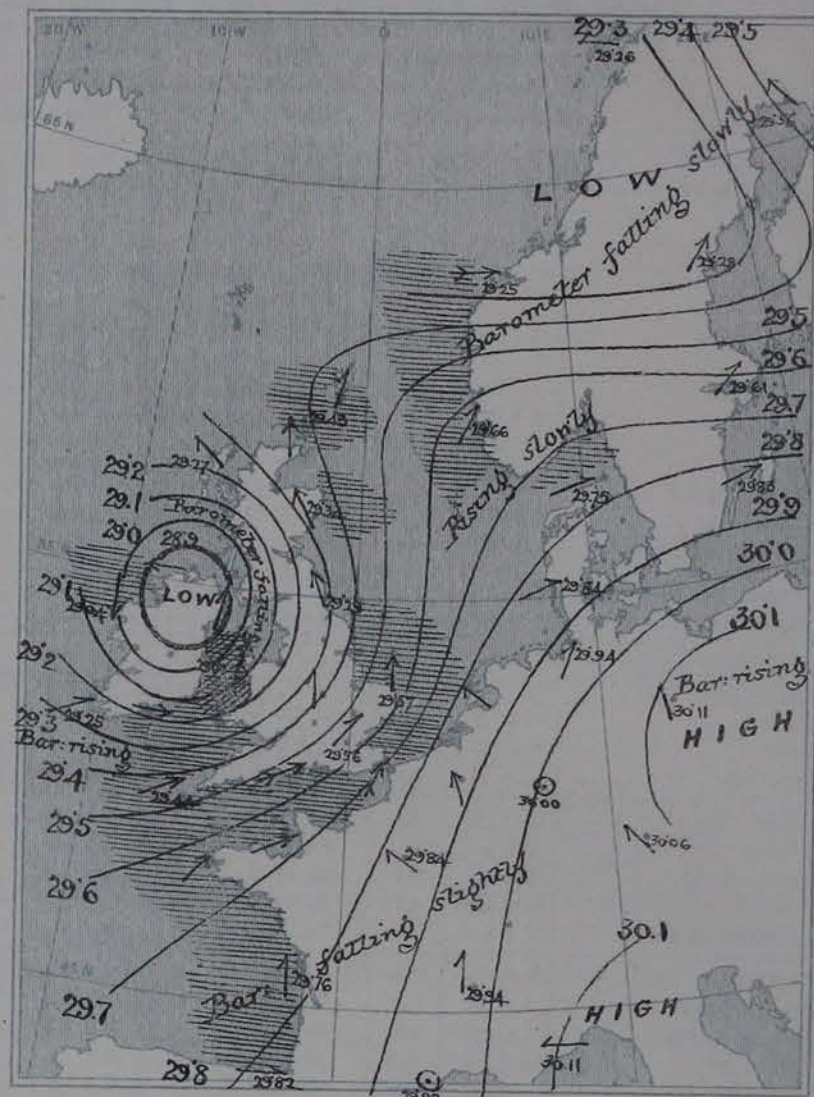
## MEAN HEIGHT OF THE BAROMETER

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

### STATIONS.

### MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.726
Stornoway	29.756
Wick	29.763
Nairn	29.779
Aberdeen	29.793
Leith	29.822
Shields	29.846
Spurn Head	29.867
York	29.882
Loughborough	29.904
Ardrossan	29.831
Mullagmore	29.845
Donaghadee	29.850
Holyhead	29.872
Liverpool	29.879
Parsonstown	29.897
Valencia	29.896
Roche's Point	29.892
Pembroke	29.888
Scilly	29.910
Prawle Point	29.931
Jersey	29.925
Hurst Castle	29.922
Dover	29.916
LONDON	29.933
Oxford	29.924
Cambridge	29.912
Yarmouth	29.894



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

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

**WEATHER**—is shown by letters of the Beaufort Scale.

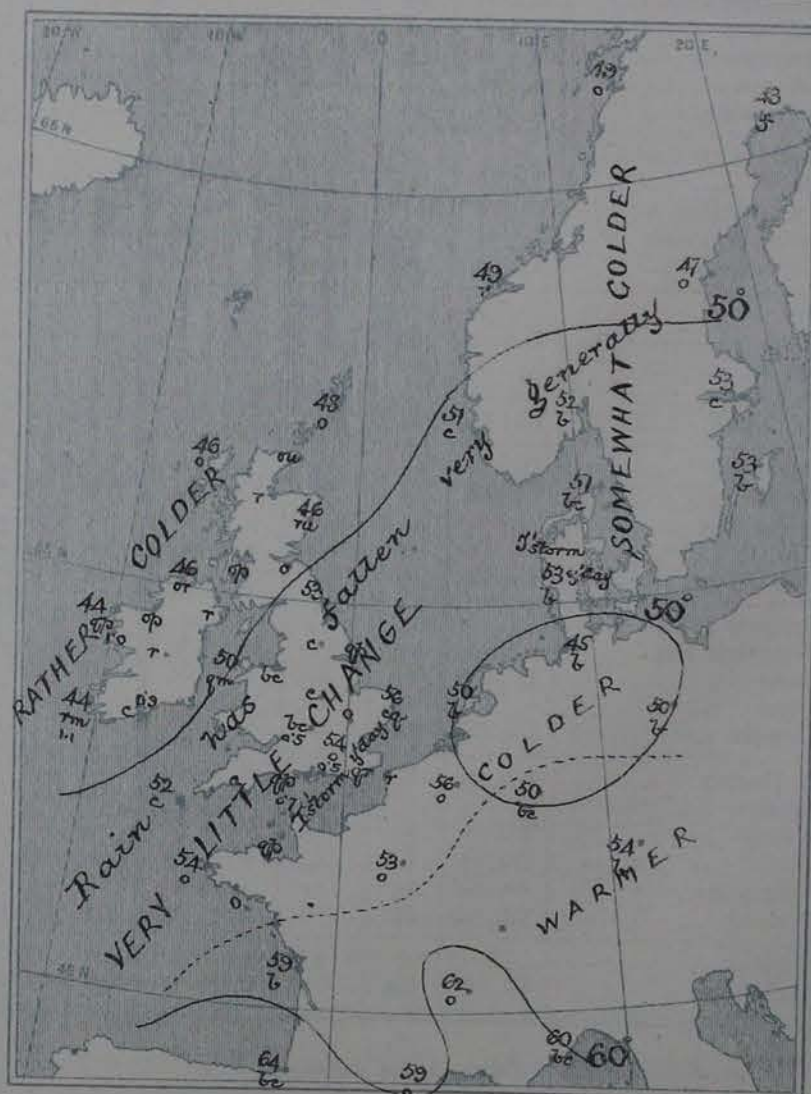
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of October.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Dry.	Wet.	
Sumburgh Head	49.8	41.6	46.0	44.3	4.27
Stornoway	51.0	40.5	45.6	44.5	5.04
Wick	51.7	40.5	46.3	44.6	3.02
Nairn	51.9	40.8	44.8	42.9	2.33
Aberdeen	52.5	41.4	45.6	43.6	2.87
Leith	54.7	41.8	46.7	44.9	1.97
Shields	53.2	42.7	47.2	45.4	2.45
Spurn Head	53.3	45.7	48.8	47.3	2.27
York	54.6	41.4	45.9	44.5	2.60
Loughborough	53.7	41.1	45.9	44.6	2.80
Ardrossan	53.7	43.7	47.8	45.8	3.87
Mullagmore	54.2	45.7	49.1	46.9	4.75
Donaghadee	53.6	43.6	47.8	46.6	3.14
Holyhead	54.7	47.3	50.3	48.3	4.31
Liverpool	53.8	44.7	47.8	46.8	3.46
Parsonstown	54.8	41.0	46.2	44.5	3.16
Valencia	56.6	46.8	51.4	49.2	5.88
Roche's Point	56.0	46.1	50.2	48.3	4.09
Pembroke	54.9	48.0	51.2	49.2	3.96
Scilly	56.6	50.2	53.7	51.6	3.70
Prawle Point	56.7	46.2	51.2	49.6	3.00
Jersey	58.2	48.6	53.3	50.7	4.45
Hurst Castle	57.1	45.8	50.8	48.2	3.28
Dover	56.1	46.2	50.2	48.2	3.22
LONDON	56.7	42.7	47.5	45.9	2.57
Oxford	55.6	42.2	46.2	44.9	2.56
Cambridge	56.5	41.0	46.4	45.3	2.27
Yarmouth	54.3	44.6	49.0	47.6	2.92

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest 30.1 ins. and upwards in Germany and also in the southeast of France.  
 Lowest 28.9 ins. and less in a deep depression lying over the North Sea.  
 Gradients steep over the greater part of the United Kingdom, but moderate or slight elsewhere.  
 Barometer falling in most places, but beginning to rise again in the extreme southwest.

## TEMPERATURE

Highest 65° at Lisbon, 64° at Biarritz, 62° at Lyons, 60° at Nice, and 59° at Dungeness, Rochefort and Perpignan.  
 Lowest 41° at Nairn and Parsonstown, 43° at Haparanda, and 44° at Belmullet and Valencia Island.  
 The maxima registered over our Islands yesterday were below 55° at many of the northern & western stations.

## WIND

SW<sup>2</sup> on our southern coasts, S<sup>2</sup> in the east, SE<sup>2</sup> or E<sup>2</sup> in the north, and N<sup>2</sup> in the extreme west; strong to a gale at most of our western stations.  
 On the Continent the wind is chiefly S<sup>2</sup> or SW<sup>2</sup> and in Scandinavia it blows with the force of a gale.

## WEATHER

Cloudy or overcast over our Islands, Scandinavia and the north of France, with rain in many places.  
 Fine in Denmark, Germany, the Netherlands and many parts of France.  
 Since yesterday morning 0.9 inch of rain has fallen at Roche's Point, 1.0 inch at Belmullet, & 1.1 in. at Valencia Island.  
 Thunder and lightning occurred yesterday over England, Holland and Denmark. A lunar halo was seen at Wick & Mullaghmore.

## SEA

Very high at Holyhead and rough on nearly all other parts of our coasts.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The new depression over Ireland seems likely to occasion gales from varying directions in nearly all parts of the Kingdom. Its centre will probably take a more easterly course than that pursued by the disturbance of Tuesday.

# FORECASTS

For the 24 hours ending at NOON on 17<sup>TH</sup> OCTOBER 1891.

## DISTRICTS.

## FORECASTS.

10	SCOTLAND NORTH	SE <sup>2</sup> winds, backing to the NE <sup>2</sup> and increasing to a gale; squally, rainy.
11	SCOTLAND EAST	
12	ENGLAND N.E.	S <sup>2</sup> to W <sup>2</sup> strong winds and gales, squally, rainy.
13	ENGLAND EAST	
4	MIDLAND COUNTIES	SW <sup>2</sup> to W <sup>2</sup> strong winds and gales, squally, showery.
15	ENGLAND SOUTH	

## DISTRICTS.

## FORECASTS.

16	SCOTLAND WEST	E <sup>2</sup> to N <sup>2</sup> winds increasing to a gale; squally, rainy.
17	ENGLAND N.W.	S <sup>2</sup> to W <sup>2</sup> or NW <sup>2</sup> strong winds and gales, squally, rainy.
18	ENGLAND S.W.	SW <sup>2</sup> to W <sup>2</sup> strong winds and gales, squally, showery.
19	IRELAND NORTH	NW <sup>2</sup> and N <sup>2</sup> strong winds and gales, squally, and rainy at first, some improvement later.
10	IRELAND SOUTH	

## WARNINGS.

The South Cone has been hoisted this morning in district 2, and North Cone in districts 1, 6, 7, 9 and 10. The signals are still flying in districts 3, 5 and 8.

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.41	53	50	SSC	8	1	7		Holyhead ...	29.35	52	48	SW	3	2
Sumburgh Head ...	29.15	50	47	SSW	3	0	6		Valencia ...	29.34	50	46	SW	6	5
Stornoway ...	29.12	50	50	W	3	c	3		Scilly ...	29.54	55	50	WSW	7	6
Aberdeen ...	29.19	46	44	SW	2	c	4		Jersey ...	29.76	61	53	WSW	6	5
Shields ...	29.29	50	47	SW	3	bc	3		Dungeness ...	29.58	55	52	WSW	8	6
Ardrossan ...	29.26	54	52	SW	3	bc	2		London ...	29.54	55	51	SW	7	5
Malin Head ...	29.26	50	47	SW	2	b	3		Yarmouth ...	29.51	55	51	SW	6	5
Mullaghmore ...	29.31	51	46	SW	4	c	3		Rocheport ...	29.99	66	59	W	5	4
Belmullet ...	29.32	51	47	WSW	2	o	*								

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

*The Continental information will appear  
in tomorrow's Report.*

### EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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



# DAILY WEATHER REPORT.

for *Saturday, 17<sup>th</sup> October, 1891.*  
 Issued by the Meteorological Office, 63, Victoria Street, London. *R. H. SCOTT, Secretary.*

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 4.)	SHADE TEMP.		Amount of Rainfall.	
			Reading at 32° F. and Sea Level.	Dry.		Dir.	Force. (0 to 12.)	Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.			Dir.	Force. (0 to 12.)		Max.
SCANDINAVIA.	Haparanda ...	29.34	44	Z	0	c	29.64	+ 08	43	43	0	Z	0	0	*	46	36	0.20
	Hernösand ...	29.70	46	SW	2	b	29.65	+ 37	40	39	- 7	Z	0	0	*	57	39	-
	Stockholm ...	29.88	47	Z	0	c	29.72	+ 11	51	49	- 2	SE	4	0	*	53	45	-
	Wisby ...	29.96	49	SSW	4	b	29.75	- 08	53	50	0	S	6	0	*	57	46	-
	Bodö ...	29.43	47	E	1	r	29.49	+ 23	46	42	- 3	E	2	0	*	50	43	0.43
	Christiansund	29.54	48	ESE	2	c	29.29	+ 04	49	45	0	SE	1	0	3	52	40	0.20
	Skudesnaes ...	29.39	54	SSE	8	o	29.32	- 34	53	49	+ 2	S	10	1	7	54	51	1.02
	Christiania Fjord (Færdø)	29.73	55	SSE	5	c	29.55	- 06	55	52	+ 3	SSW	4	0	4	55	52	0.32
	Skagen (The Scaw)	29.63	55	SSE	7	o	29.59	- 16	53	50	+ 2	SW	3	0	1	55	50	-
	Fanö ...	29.63	57	S	4	c	29.64	- 20	54	52	+ 1	S	4	0	*	57	53	0.20
BRITISH ISLANDS.	Sumburgh Head	29.14	47	SE	4	o	29.04	- 39	47	45	- 1	WNW	2	0	5	49	43	0.16
	Stornoway ...	29.00	48	E	4	o	29.37	+ 10	46	45	0	W	3	0	4	49	42	0.46
	Wick ...	29.02	51	SE	4	o	29.25	- 08	45	45	- 3	W	3	0	3	54	40	0.28
	Nairn ...	28.96	46	ESE	1	o	29.30	- 00	46	43	+ 5	Z	0	0	1	51	39	0.23
	Aberdeen ...	29.01	48	SSE	7	oqpp	29.32	- 02	48	44	+ 2	WSW	3	0	4	54	42	0.24
	Leith ...	28.98	47	S	2	r	29.39	+ 21	48	45	0	WSW	4	0	*	56	43	0.10
	Shields ...	29.17	48	S	5	r	29.49	+ 23	49	46	- 4	SW	5	0	3	55	44	0.02
	Spurn Head ...	29.42	51	SSW	6	b	29.58	+ 15	47	44	- 8	SW	5	0	4	56	44	-
	York ...	29.36	50	S	5	bc	29.58	+ 23	46	44	- 7	SW	3	0	*	55	40	-
	Loughborough	29.47	50	SW	5	b	29.65	+ 24	45	43	- 5	SW	4	0	*	57	44	-
GERMANY & HOLLAND.	Ardrossan ...	28.98	49	W	1	op	29.48	+ 43	49	49	- 1	W	4	0	4	55	46	0.45
	Malin Head ...	29.10	48	W	6	o	29.51	+ 64	49	46	+ 3	W	3	0	3	49	46	0.18
	Mullaghmore ...	29.30	49	WNW	6	bc	29.57	+ 69	44	43	- 3	SW	2	0	3	50	43	0.41
	Belmullet ...	29.36	49	WNW	4	bc	29.59	+ 55	46	45	+ 2	WNW	1	0	*	51	43	0.16
	Donaghadee ...	29.16	47	W	6	o	29.57	+ 67	41	40	- 9	WSW	5	0	3	52	39	0.39
	Liverpool (Bidston)	29.41	48	SW	4	bc	29.64	+ 40	46	44	- 4	SW	3	0	3	53	45	0.10
	Holyhead ...	29.37	50	WSW	6	oq	29.63	+ 56	49	47	- 1	WSW	2	0	3	52	47	0.05
	Parsonstown ...	29.41	46	Z	0	bc	29.64	+ 73	45	44	+ 4	Z	0	0	*	50	40	0.17
	Valencia ...	29.54	49	WNW	3	bc	29.77	+ 52	51	48	+ 7	WNW	3	0	3	55	43	0.24
	Roche's Point...	29.51	50	W	4	bc	29.79	+ 60	49	46	+ 3	W	4	0	4	53	44	-
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.55	50	W	4	bcp	29.85	+ 41	52	49	0	W	5	0	5	56	46	0.20
	Scilly ...	29.61	49	SW	6	r	29.85	+ 34	51	51	- 1	SW	5	0	3	55	46	0.16
	Prawle Point ...	29.73	53	WSW	5	c	29.92	+ 26	55	50	- 1	W	5	0	5	61	50	0.18
	Jersey (St. Aubin's)	29.65	55	WSW	7	cqhr	29.84	+ 26	52	51	- 3	W	6	0	5	61	48	0.27
	Hurst Castle ...	29.65	55	WSW	7	cqhr	29.84	+ 26	52	51	- 3	W	6	0	5	61	48	0.27
	Dungeness ...	29.65	56	W	7	c	29.79	+ 19	49	47	- 10	W	5	0	4	60	46	0.60
	London ...	29.64	52	SSW	4	bc	29.74	+ 23	46	44	- 8	SSW	2	0	*	58	41	0.17
	Oxford ...	29.60	48	S	3	c	29.76	+ 25	46	43	- 5	WSW	3	0	*	56	43	0.08
	Cambridge ...	29.58	50	SW	3	b	29.75	+ 23	46	44	- 6	SW	2	0	*	57	40	-
	Yarmouth ...	29.58	52	SW	4	bc	29.70	+ 13	47	45	- 9	WSW	4	0	3	57	44	0.13
GERMANY & HOLLAND.	Cuxhaven ...	29.77	63	SSE	3	c	29.76	- 18	46	46	+ 1	S	2	0	*	61	45	0.28
	Berlin ...	29.89	56	SE	3	b	29.88	- 23	54	53	+ 4	SW	2	0	*	63	50	-
	Wiesbaden ...	*	*	*	*	*	29.95	- 05	55	54	+ 5	Z	0	0	*	63	50	-
	Munich ...	29.99	56	SW	2	bc	30.01	- 05	49	48	- 5	Z	0	0	*	68	45	-
	The Helder ...	29.71	55	SW	3	bc	29.70	- 10	51	48	+ 1	SW	4	0	3	59	46	0.12
	Brussels (Oam.)	*	*	*	*	*	29.88	+ 11	50	47	- 6	SSW	4	0	*	65	46	0.08
	Cape Gris Nez	29.67	55	WSW	6	bc	29.75	+ 14	51	47	- 2	W	4	0	5	59	48	0.20
	Paris ...	29.86	53	SW	2	b	29.97	+ 13	46	46	- 7	S	2	0	*	67	45	0.16
	Brest ...	?	54	SW	5	o	?	?	52	51	- 2	W	4	0	5	59	50	0.28
	Lorient ...	29.76	55	SW	7	c	29.97	+ 29	53	48	- 4	W	3	0	5	61	50	0.20
FRANCE AND BELGIUM.	Rochefort ...	29.87	59	WSW	5	c	29.98	+ 22	59	53	0	W	5	0	*	63	54	-
	Belfort ...	?	61	r	3	c	?	?	61	54	-	W	3	0	*	70	46	0.28
	Lyons ...	29.96	62	S	3	bc	30.08	+ 14	52	52	- 11	N	1	0	*	69	52	0.79
	Nice ...	30.09	62	Z	0	c	30.09	- 02	63	56	+ 3	SSW	1	0	0	70	57	-
	Perpignan ...	29.89	67	S	2	bc	30.02	+ 10	60	58	+ 1	W	1	0	*	60	56	-
	Biarritz ...	29.95	62	NE	2	o	30.05	+ 23	56	54	- 8	SSE	2	0	6	68	52	-
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-
	Lisbon ...	30.07	61	WNW	3	b	30.12	- 00	58	54	- 7	N	2	0	4	70	57	-



# WEATHER CHARTS

for 8 a.m. on Saturday, 17<sup>th</sup> Oct., 1891.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

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

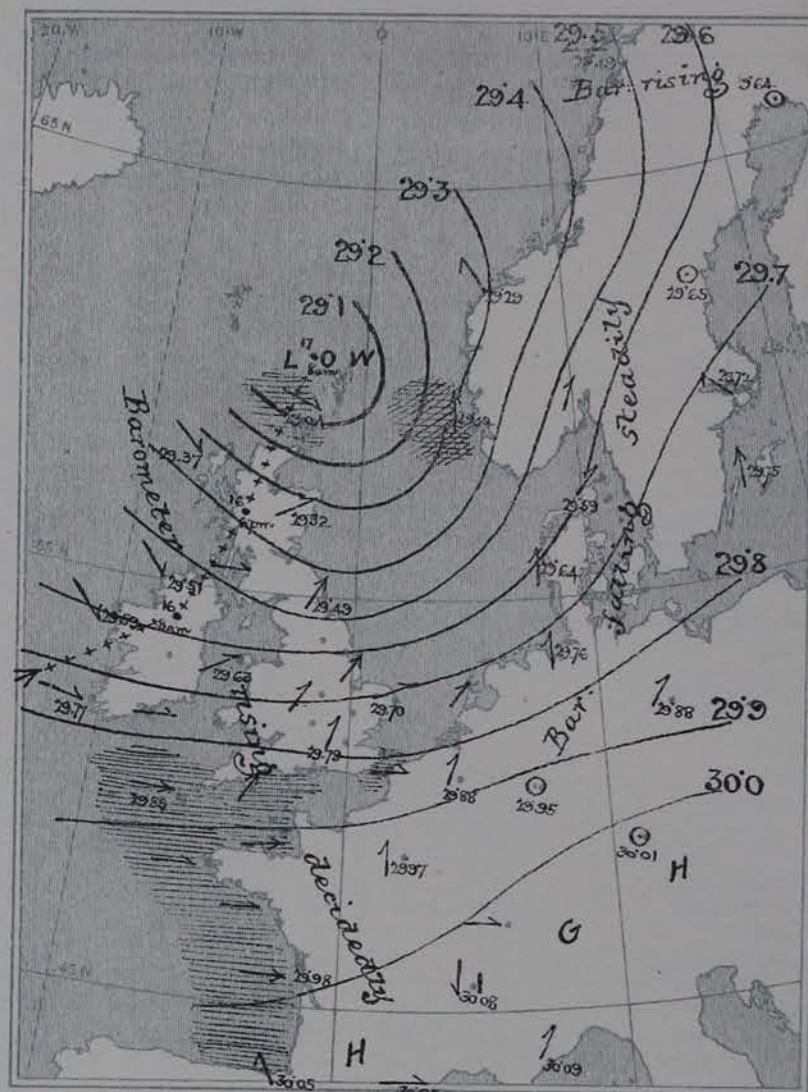
**SEA DISTURBANCE**—Where considerable, is shown thus:

☼ = Rough. ☼ = High.

## MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.726
Stornoway	29.756
Wick	29.763
Nairn	29.770
Aberdeen	29.793
Leith	29.822
Shields	29.846
Spurn Head	29.867
York	29.882
Loughborough	29.904
Ardrossan	29.881
Mullaghmore	29.845
Donaghadee	29.850
Holyhead	29.872
Liverpool	29.879
Parsonstown	29.897
Valencia	29.896
Roche's Point	29.892
Pembroke	29.888
Scilly	29.910
Prawle Point	29.931
Jersey	29.926
Hurst Castle	29.922
Dover	29.916
LONDON	29.923
Oxford	29.924
Cambridge	29.912
Yarmouth	29.891



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

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

**WEATHER**—is shown by Letters of the Beaufort Scale.

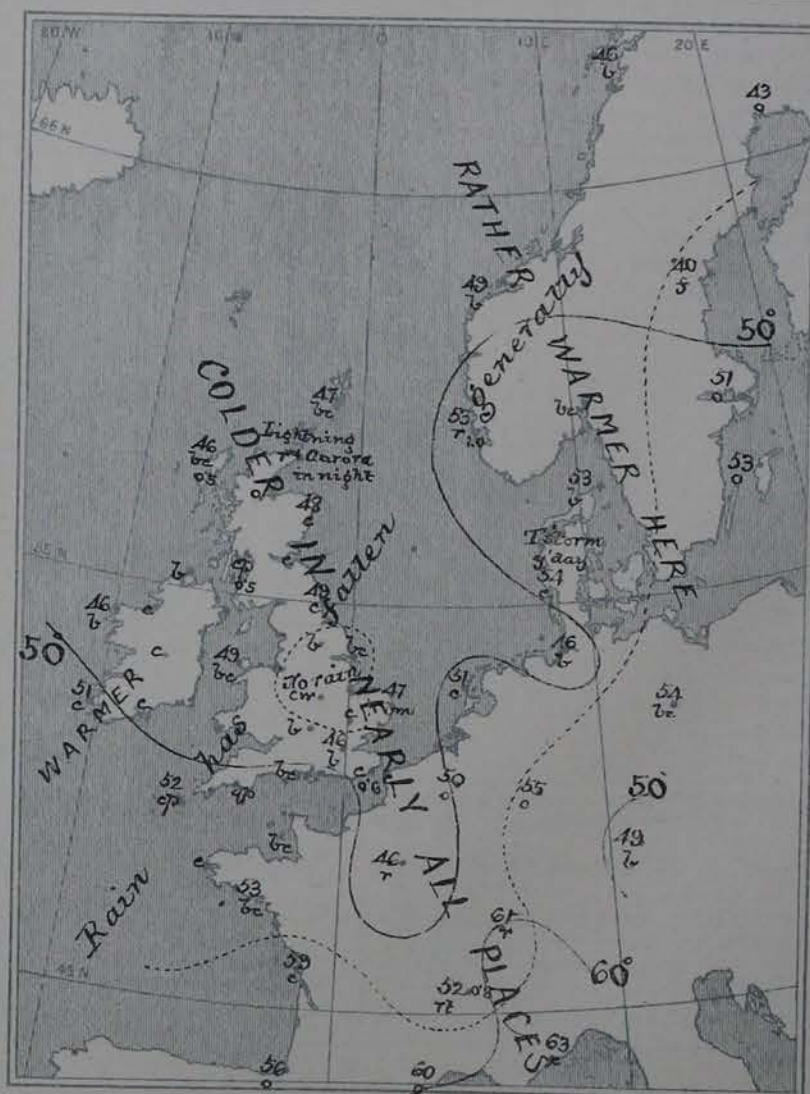
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of October.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Dry. 8 a.m.	Wet. 4 p.m.	
Sumburgh Head	49.8	41.6	46.0	44.3	1.27
Stornoway	51.0	40.5	45.6	44.5	5.04
Wick	51.7	40.5	46.3	44.6	3.02
Nairn	51.9	40.8	44.8	42.9	2.38
Aberdeen	52.5	41.4	45.6	43.6	2.87
Leith	54.7	41.8	46.7	44.9	1.97
Shields	53.2	42.7	47.2	45.4	2.48
Spurn Head	53.3	45.7	48.8	47.3	2.27
York	54.5	41.4	45.9	44.5	2.60
Loughborough	55.7	41.1	45.9	44.6	2.80
Ardrossan	53.7	43.7	47.8	45.8	3.87
Mullaghmore	54.2	45.7	49.1	46.9	4.75
Donaghadee	53.6	43.6	47.8	46.6	3.14
Holyhead	54.7	47.3	50.3	48.3	1.31
Liverpool	53.8	44.7	47.8	45.8	3.46
Parsonstown	54.8	41.0	46.2	44.5	3.16
Valencia	56.6	46.8	51.4	49.2	5.88
Roche's Point	56.0	46.1	50.2	48.3	4.09
Pembroke	54.9	48.0	51.2	49.2	3.96
Scilly	56.6	50.2	53.7	51.6	3.70
Prawle Point	56.7	46.2	51.2	49.6	3.69
Jersey	58.2	48.6	53.3	50.7	4.45
Hurst Castle	57.1	45.8	50.8	49.2	3.28
Dover	56.1	46.2	50.2	48.2	3.22
LONDON	56.7	42.7	47.5	45.9	2.57
Oxford	55.5	42.2	46.2	44.9	2.56
Cambridge	56.5	41.0	46.4	45.3	2.27
Yarmouth	54.3	44.6	49.0	47.6	2.92

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest 30.12 ins. at Lisbon; 30.0 ins. and upwards over Spain and the southern half of France.  
 Lowest 29.1 ins. and less in a depression having its centre a little to the northward of the Shetlands.  
 Gradients moderate generally, but rather steep in the far north.  
 Barometer rising at all but the Scandinavian and Danish stations, briskly in the west and north of our Islands.

## TEMPERATURE

Highest 63° at Nice, 60° at Perpignan, 59° at Rochefort, 58° at Lisbon, 56° at Biarritz, and 55° at Faerder, Wiesbaden and Jersey.  
 Lowest 40° at Hemsö, 41° at Donaghadee, 43° at Haparanda, 44° at Mullaghmore, 44.5° at Wick, Loughborough & Perssonby.  
 The maxima registered yesterday were below 55° at many of our W<sup>m</sup> and N<sup>m</sup> stations, and below 50° in the Shetlands and Hebrides.

## WIND

Moderate or fresh from the W<sup>m</sup> or NW<sup>m</sup> in the west and north of our Islands and also over the Channel and Bay of Biscay; SW<sup>2</sup> in the east of England.  
 S<sup>2</sup> or SE<sup>2</sup> in Scandinavia and Denmark, with a whole gale at Skudesnaes.  
 Variable over Germany and central France.

## WEATHER

Fair over the greater part of the United Kingdom, but showery in places, fine over Denmark, Germany and the greater part of Norway.  
 Dull at the Swedish and most of the French stations, with rain at Paris, and a thunderstorm at Lyons.  
 Rain fell yesterday in most parts of western Europe. Lightning and an Aurora were seen last night at Wick.

## SEA

Rather rough in the Channel and Bay of Biscay as well as in the neighbourhood of the Shetlands - high at Skudesnaes.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are at present no indications of the approach of any new depression towards our western coasts, but the conditions are not yet settled.

# FORECASTS

For the 24 hours ending at NOON on 19<sup>TH</sup> OCTOBER 1891.

## DISTRICTS.

## FORECASTS.

↑ 0	SCOTLAND NORTH	W <sup>2</sup> and NW <sup>2</sup> winds, force doubtful; changeable, some showers.
↑ 1	SCOTLAND EAST	
2	ENGLAND N.E.	Same as N <sup>o</sup> 5.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	SW <sup>2</sup> to W <sup>2</sup> winds, moderate or fresh, fair generally

## DISTRICTS.

## FORECASTS.

↑ 6	SCOTLAND WEST	Same as N <sup>o</sup> 0. and 1.
7	ENGLAND N.W.	W <sup>2</sup> winds, moderate, fair generally, but local showers.
8	ENGLAND S.W.	
↑ 9	IRELAND NORTH	W <sup>2</sup> and NW <sup>2</sup> winds, backing later, fair to showery.
10	IRELAND SOUTH	
WARNINGS		The North Cone is still flying in districts 0, 1, 6 and part of 9, but the signals have been lowered elsewhere.

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 ...	29.52	54	51	SSE	7	1	5	Holyhead ...	...	29.19	49	45	WSW	9	omgg	8	
Sumburgh Head ...	29.29	47	46	SE	4	1	5	Valencia ...	...	29.43	54	50	WNW	4	bcg	5	
Stornoway ...	29.03	48	48	E	4	0	4	Scilly ...	...	29.53	49	49	SW	4	1	6	
Aberdeen ...	29.11	52	47	SSE	7	bcg	7	Jersey ...	...	29.71	60	52	SW	5	bc	5	
Shields ...	29.17	54	48	S	7	6	4	Dungeness ...	...	29.65	56	52	WSW	8	ogj	6	
Ardrossan ...	28.93	48	48	SE	5	0	5	London ...	...	29.61	57	49	SW	4	e	*	
Mulin Head ...	28.85	47	47	WNW	6	0	4	Yarmouth ...	...	29.57	56	53	SW	5	og	5	
Mullaghmore ...	29.13	48	45	WNW	8	ogp	6	Rochefort ...	...	29.84	60	55	SW	5	0	*	
Belmullet ...	29.25	51	47	N	4	0	*										

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

Weather in morning very changeable and unsettled over the British Islands and northwestern Europe, with rain in many places (especially in the west and north) and unsettled looking skies at most stations. Squalls and showers later in almost all districts, but amounts of rainfall reported not very large except at Skudesnaes (1.02 ins.) and Nice (0.79 ins.). Showers, however, very sharp while they lasted.

Temperature in morning still above 70° at a few of the stations on the southern side of the Mediterranean and above 60° in several parts of southern Europe, lower elsewhere; below 50° over the western and northern parts of the British Islands, and in northern Europe; but lowest of all 26° at Khar'kov, 32° at Nicolaieff and Hermannstadt, 38° at Kieff, 39° at Odessa, not touching 60° over by far the greater part of our Islands during day, but rising to 61° at Hurst point and Jersey, 61° to 68° over Germany, 70° in the southwest of France and at Lisbon and 85° at Perpignan.

Wind strong to a gale, and cyclonic, all over the United Kingdom, Scandinavia and the Gulf of Bothnia - blowing very hard indeed from SSW. at Holyhead, and a moderate to fresh gale in several other places, but a moderate gale from N. at Belmullet. Light variable and anticyclonic over southeastern and southern Europe and the Mediterranean. Subsidy considerably over the United Kingdom and neighbourhood later but still blowing a moderate gale from W. over the eastern half of the English Channel.

Barometer highest (1) 30.4 ins. and more to 30.1 ins. in a large anticyclone over southern central Russia and in a ridge extending thence over central and southeastern Europe (2) 30.1 ins. and more to 29.9 ins. in another anticyclonic system over the southwestern half of Spain and neighbouring parts of the Atlantic. Lowest (1) 28.9 ins. and less in a new depression lying over the northern half of Ireland, (2) 29.5 ins. and less in a 'V' shaped system over the northern parts of Sweden and Norway. Irish depression moving northwards to Scotland later.

## General Remarks on the Weather for the 24 hours ending at 8 a.m. on 16<sup>th</sup> OCT. 1891.

Weather dull and showery at many of the English stations as well as at Valencia Island and in the north of France. Fair or fine in most other parts of Europe, but dull and foggy over eastern Germany and the north of Russia. Thunderstorms with heavy showers occurring later in many parts of England, as well as in Holland and Denmark. Heavy rain setting in over Ireland at night. Lunar halos seen at some of our northern stations.

Temperature highest 79° at Malta, 75° at Brindisi, 73° at Palermo, and 70° at Algiers; above 60° in most parts of southern Europe, above 50° in the southeast of England. Lowest 25° at Khar'kov, 30° at Archangel, 32° at Nicolaieff, 33° at Moscow, and 34° at Hermannstadt. Daily maxima below 50° at most of our western and northern stations, and scarcely touching 60° over in the extreme south. Rising to 70° or more over the southern parts of France.

Wind S.W. or S.W. over the greater part of western and northern Europe and strong to a gale in force in the east and south of England, as well as on the eastern shores of the North Sea; light from the SE. at Valencia Island. Variable over central and southern Europe; light from the E. in the south of Russia. No important change occurring during day, but gales beginning to abate in Channel at night.

Barometer highest 30.4 ins. and upwards over the southern parts of central Russia; 30.0 ins. and upwards in a large anticyclone covering the whole of central, southern and eastern Europe. Lowest 29.1 ins. and less in a depression lying to the north and of Scotland, 29.3 ins. and less in a secondary disturbance approaching the south of Ireland. Latter system subsequently moving northwards across England, but barometer remaining very unsteady in southwest.

## EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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

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

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

" Weekly " " " 21 10 0 "



# DAILY WEATHER REPORT.

for Sunday 18<sup>th</sup> OCT<sup>r</sup> 1891.  
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.			BAROMETER.		SHADE TEMP.			WIND.					SHADE TEMP.		Amount of Rainfall.
	Reading at 32° F. and Sea Level.	Dry.	Dirca.	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.	Dirca.	Force (0 to 12.)				Max.	Min.	
SCANDINAVIA.	Haparanda ...	29.65	42	SW	2	0	29.45	-19	41	41	-2	E	4	r	*	45	41	0.46
	Hernösand ...	29.50	45	Z	0	f	29.36	-29	44	43	-1	S	2	bc	*	46	34	0.12
	Stockholm ...	29.59	51	SW	2	0	29.52	-20	49	46	-3	SW	4	c	*	55	43	0.04
	Wisby ...	29.70	52	WSW	6	bc	29.70	-05	50	47	-3	WSW	8	b	*	55	45	-
	Bodö ...	29.41	47	E	2	b	29.41	-08	45	43	-2	E	2	b	0	50	43	-
	Christiansund ...	29.22	51	ESE	4	c	29.34	+05	44	43	-1	Z	0	b	1	54	45	-
	Skudesnaes ...	29.37	50	WSW	6	0	29.57	+25	47	46	-1	W	7	r	5	53	45	0.35
	Christiania Fjord (Færd)	29.41	51	SSW	5	c	29.51	-04	50	46	-4	WSW	7	c	5	55	50	0.75
	Skagen (The Scaw)	29.51	49	WSW	4	c	29.62	+03	48	46	-2	W	4	bc	2	55	45	0.32
	Fanö ...	29.76	52	WSW	6	c	29.78	+14	50	48	-2	W	4	c	*	57	48	0.24
BRITISH ISLANDS.	Sumburgh Head	29.32	46	NW	4	0	29.60	+28	45	43	-2	NW	4	0	5	51	44	0.08
	Stornoway ...	29.58	44	NW	4	bc	29.70	+12	46	45	-1	SW	3	bc	3	48	36	0.04
	Wick ...	29.55	48	NW	2	b	29.73	+18	40	39	-1	NW	2	bc	2	50	36	0.10
	Nairn ...	29.59	44	SW	2	bc	29.76	+17	36	34	-2	Z	0	b	0	50	39	-
	Aberdeen ...	29.60	43	WSW	2	b	29.83	+23	44	39	-5	SW	2	bc	2	51	34	-
	Leith ...	29.62	49	W	2	bc	29.85	+23	41	41	0	Z	0	c	*	55	35	-
	Shields ...	29.68	49	W	2	bc	29.90	+22	42	41	-1	Z	0	bc	2	55	40	-
	Spurn Head ...	29.77	48	SW	4	b	29.96	+19	47	45	-2	SW	3	bc	3	55	45	-
	York ...	29.74	49	SSW	1	0	29.96	+22	42	41	-1	S	1	b	*	53	39	-
	Loughborough	29.80	46	WSW	2	0	29.99	+19	45	44	-1	WSW	2	bc	*	56	43	0.16
GERMANY & HOLLAND.	Ardrossan ...	29.69	49	WSW	2	bc	29.84	+15	50	50	0	SW	4	c	3	55	47	0.06
	Malin Head ...	29.71	49	NW	2	cp	29.77	+06	45	44	-1	S	4	bc	2	51	43	0.06
	Mullaghmore ...	29.77	49	W	2	cp	29.79	+02	49	46	-3	S	5	bc	3	54	43	0.06
	Belmullet ...	29.80	50	WNW	2	bc	29.70	-10	51	49	-2	SSW	7	bc	*	53	45	0.11
	Donaghadee ...	29.74	46	W	3	b	29.90	+16	42	41	-1	W	4	b	2	55	39	0.01
	Liverpool (Bidston)	29.79	45	WSW	3	r	29.99	+20	48	46	-2	SW	2	bc	3	53	44	0.19
	Holyhead ...	29.77	49	WNW	3	c	29.97	+20	50	47	-3	WSW	2	bc	2	52	48	0.03
	Parsonstown ...	29.85	48	Z	0	b	29.85	0	42	41	-1	Z	0	bc	*	55	39	-
	Valencia ...	29.93	49	WNW	2	b	29.85	-08	53	50	-3	S	6	0	6	55	42	0.01
	Roche's Point...	29.89	50	WNW	4	b	29.97	+08	53	51	-2	S	5	bc	5	54	45	0.10
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.87	53	W	5	r	30.04	+17	52	51	-1	WSW	4	bc	5	54	49	0.10
	Scilly ...	29.98	52	W	4	bp	30.06	+08	52	50	-2	SW	4	b	4	56	48	0.04
	Prawle Point ...	29.98	53	W	5	bc	30.10	+12	53	50	-3	SW	3	bc	2	55	48	0.04
	Jersey (St. Aubin's)	30.08	55	W	4	b	30.20	+12	56	51	-5	W	4	b	4	60	52	0.05
	Hurst Castle ...	29.97	54	W	7	bc	30.12	+15	52	51	-1	W	5	b	4	58	50	0.04
	Dungeness ...	29.95	55	W	5	c	30.10	+05	57	49	-8	WNW	5	c	4	59	48	0.06
	London ...	29.95	49	WSW	2	b	30.10	+05	49	46	-3	SW	2	bc	*	67	42	-
	Oxford ...	29.96	48	SW	4	c	30.09	-01	44	44	0	SW	1	b	*	53	42	0.11
	Cambridge ...	29.98	47	SW	2	bc	30.06	-02	46	45	-1	SW	1	b	*	57	39	-
	Yarmouth ...	29.85	50	WSW	3	b	30.02	-07	45	44	-1	WSW	3	bc	3	55	41	-
GERMANY & HOLLAND.	Cuxhaven ...	29.84	47	SW	4	b	29.92	+08	47	46	-1	WSW	5	c	*	54	45	-
	Berlin ...	30.02	54	SSW	3	0	30.10	+08	46	45	-1	W	3	b	*	59	45	0.04
	Wiesbaden ...	*	*	*	*	*	30.22	+20	41	40	-1	Z	0	b	*	59	39	-
	Munich ...	30.20	51	SW	1	r	30.25	+05	48	48	0	Z	0	r	*	59	48	0.32
	The Helder ...	29.91	53	SW	5	b	30.02	+11	52	48	-4	WSW	4	c	4	55	51	0.12
	Brussels (9 a.m.)	*	*	*	*	*	30.17	+16	46	44	-2	SW	4	b	*	56	44	0.04
	Cape Gris Nez	29.95	55	WSW	6	bc	30.06	+11	54	48	-6	W	6	bc	5	57	48	0.12
	Paris ...	30.13	50	SW	2	b	30.26	+13	36	36	0	S	1	b	*	62	35	-
	Brest ...	*	56	W	4	bc	30.18	+02	54	50	-4	W	3	c	3	54	52	-
	Lorient ...	30.13	54	W	3	b	30.21	+08	55	49	-6	SW	3	c	4	59	52	-
FRANCE AND BELGIUM.	Rochefort ...	30.16	57	NW	3	b	30.23	+07	50	48	-2	E	3	b	2	63	46	-
	Belfort ...	?	61	W	3	c	?	?	47	39	-8	W	2	f	*	68	46	-
	Lyons ...	30.15	55	NNE	1	0	30.23	+08	50	47	-3	NNE	2	bc	*	61	49	0.04
	Nice ...	30.09	57	Z	0	bc	30.09	0	62	57	-5	WSW	1	bc	0	70	57	-
	Perpignan ...	30.10	59	W	3	0	30.15	+05	58	53	-5	NW	2	0	*	64	54	0.12
	Biarritz ...	30.16	57	SSE	1	0	30.19	+03	54	53	-1	E	3	0	2	59	52	0.16
	Corunna ...	*	*	*	*	*	30.20	+02	52	49	-3	NE	2	b	3	59	41	-
	Lisbon ...	30.10	58	N	4	b	30.11	-01	50	51	+1	NW	5	b	5	66	55	-

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

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



for 8 a.m. on Sunday, 18<sup>th</sup> October, 1891.

EXPLANATION OF MAP



Changes since previous morning are stated in words.

their barbs and feathers refer to force thus —

$\rightarrow \rightarrow$  = forces above 10;  $\rightarrow$  = forces 8 to 10.

→ forces 5 to 7; → forces 1 to 4.

SEA DISTURBANCE—Where considerable, is shewn thus:

 = Rough.  = High

at 8.0 a.m. for the month of October

*During the 20 Years: 1871—1890*

[illegible]

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

WEATHER is shown by Letters of the Beaufort Scale.

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

(For the month of October.)

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.



## GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30'2 ins: and upwards in an anticlone lying over the Bay of Biscay, the greater part of France and the southwest of Germany.

Gradients moderate or slight generally.

Barometer falling in the extreme west of Ireland and also in Sweden, but rising elsewhere.

## TEMPERATURE

Highest, 62° at Nice, 58° at Perpignan, 56° at Jersey, and London, 55° atorient, and 54° at B. unity.

Lowest, (1)  $36^\circ$  at Nauru,  $40^\circ$  at Thell, and  $41^\circ$  at Fall; (2)  $36^\circ$  at Paris and  $41^\circ$  at Wiesbaden, (3)  $41^\circ$  at Haparanda,  $44^\circ$  at Humsund & Thinsund.

The maxima registered yesterday were below  $60^{\circ}$  in nearly all parts of the United Kingdom, and below  $55^{\circ}$  in the northwest and extreme north.

## WIND

$S^3$  or  $SW^3$  in our Islands; light or moderate in force generally, but strong in the west of Ireland.

Moderate to strong from the NW in Denmark and the south of Scandinavia.

light from the E<sup>+</sup> in the north of Scandinavia and also in the south of France.

## WEATHER

live over the greater part of the United Kingdom, but dwell in the west of Ireland and rarely at some of the Scandinavian stations.

Showers fell yesterday in many parts of our Islands, and thunderstorms occurred in some parts of Holland and Denmark.

## SEA


Rather rough on our southwestern coasts as well as off the Shetlands and west of Norway but moderate to smooth elsewhere.

### PROBABLE CHANGES IN SYSTEM NOW PREVALENT

## FORECASTS

For the 24 hours ending at NOON on 19<sup>th</sup> OCT<sup>R</sup> 1891.

DISTRICTS.		FORECASTS.	DISTRICTS.		FORECASTS.
1	SCOTLAND NORTH	None issued.	6	SCOTLAND WEST	None issued.
2	SCOTLAND EAST		7	ENGLAND N.W.	
3	ENGLAND N.E.		8	ENGLAND S.W.	
4	ENGLAND EAST		9	IRELAND NORTH	
5	MIDLAND COUNTIES		10	IRELAND SOUTH	
6	ENGLAND SOUTH				
			WARNINGS		
			The <u>SOUTH CONE</u> has been hoisted this morning 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.

THER: WIND								THER: WIND							
BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA	
Skudesnaes ...	29.32	50	48	S	8	0	7	Holyhead ...	29.69	51	48	WSW	4	c	4
Sumburgh Head	29.23	46	45	NW	4	r	5	Valencia ...	29.86	55	51	WNW	4	cg	4
Stornoway ...	29.51	47	46	NW	4	bc	4	Scilly ...	29.95	55	51	WSW	5	bc	5
Aberdeen ...	29.50	49	44	N	3	bc	4	Jersey ...	30.03	60	53	N	5	bc	3
Shields ...	29.61	54	48	SW	2	b	2	Dungeneas ...	29.89	58	53	N	5	bc	4
Ardoresan ...	29.60	49	48	NW	1	bc	1	London ...	29.88	57	51	N	4	c	8
Malin Head ...	29.63	51	48	NW	4	b.	3	Yarmouth ...	29.79	55	50	WSW	4	b	3
Mullaghmore ...	29.70	53	48	WNW	4	bcv	3	Rochefort ...	30.01	62	54	N	4	bc	2
Belmullet ...	29.75	53	49	WNW	4	op	*								

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

Weather in morning still unsettled in the north of our Islands, but inclined to improve a little over Ireland and England, though still in a very changeable, unstable condition generally; rain in several parts of France also, and thunder in some places. Fine and bright over Eastern and southeastern Europe and at most of the Mediterranean and Iberian stations. Showers later over the British Islands and Northern Europe, and heavy rains in the extreme south of France.

Temperature falling over the British Isles and their neighbourhood; morning readings exceeding  $70^{\circ}$  at many of the Mediterranean stations and exceeding  $60^{\circ}$  at the others, as well as over the Adriatic. Below  $50^{\circ}$  over the greater part of the British Isles, northern and eastern Europe, and as low as (1)  $28^{\circ}$  at Archangel; and (2)  $32^{\circ}$  at Khatkov, and Hermanstadt,  $33^{\circ}$  at Nicolaiiff. Rising later to  $60^{\circ}$  and more over the greater part of France and some part of Germany, to  $70^{\circ}$  and more at Marseilles and the Spanish and Italian stations, and to  $80^{\circ}$  and more at some of the Algerian stations.

Wind NW<sup>2</sup> to SW<sup>2</sup> over the United Kingdom, SW<sup>1</sup> to S<sup>1</sup> over the North Sea, S<sup>1</sup> to SE<sup>1</sup> in Norway and over the Baltic, moderate in most places, but a gale at Skudesnæs, very light and variable over eastern, southern, and southeastern Europe. Blowing strongly in the English Channel later, but gale at Skudesnæs dying down and wind veering westwards.

Barometer highest, 30.3 in: and more to 30.1 in: in an anticyclone over Southern Russia and southeastern Europe generally; 30.1 in: and more to 30.0 in: in another over the Iberian Peninsula. Lowest 29.1 in: and less, in a depression over the Shetlands; 30.0 in: and less, in another, shallow one, over Algeria. Northern depression moving northwards later to Norway; that in south moving in similar direction to Sardinia. Russian anticyclone decreasing in intensity.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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

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

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# DAILY WEATHER REPORT.

for *Monday, 19<sup>th</sup> October, 1891.*  
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 3.)	SHADE TEMP.		Amount of Rainfall.	
	Reading at 32° F. and Sea Level.	Dry.	Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...	29.48	31	NE	6	S	29.60	+24	24	24	-17	N	4	0	*	43	39	0.04
	Hernösand ...	29.39	44	NW	4	O	29.60	+24	39	36	-5	NW	2	60	*	52	39	0.04
	Stockholm ...	29.51	47	WSW	4	O	29.57	+05	41	40	-9	N	2	60	*	57	39	-
	Wisby ...	29.62	49	N	8	b	29.64	-06	50	47	0	N	8	0	*	52	45	-
	Bodö ...	29.43	45	E	2	b	29.48	+07	42	38	-3	E	2	0	1	48	41	-
	Christiansund	29.52	49	N	3	O	29.51	+17	45	44	+1	ESE	1	6	2	52	44	0.12
	Skudesnaes ...	29.69	48	WNW	5	O	29.45	-12	50	47	+3	SE	7	7	4	50	46	0.12
	Christiania Fjord (Færd)	29.52	51	WSW	7	C	29.60	+09	49	45	-1	WSW	3	0	4	52	49	-
	Skagen (The Scaw)	29.64	49	WNW	6	b	29.66	+04	46	45	-2	WSW	4	0	2	54	46	-
	Fanö ...	29.85	49	N	5	b	29.71	-07	52	50	+2	SW	4	C	*	54	46	0.04
BRITISH ISLANDS.	Sumburgh Head	29.62	42	Z	0	C	29.66	-54	48	48	+3	SE	4	7	5	49	42	0.11
	Stornoway ...	29.38	50	S	8	O	29.07	-63	45	44	-1	N	2	0	4	51	43	0.85
	Wick ...	29.55	46	N	3	O	29.05	-68	46	44	+6	N	2	6	2	51	37	0.07
	Nairn ...	29.49	49	SW	2	b	29.10	-66	48	46	+12	SW	1	C	1	54	36	-
	Aberdeen ...	29.64	49	SSE	4	O	29.15	-68	46	44	+2	SW	3	b	5	51	44	0.36
	Leith ...	29.64	49	SW	1	O	29.20	-65	48	46	+7	WSW	2	b	*	56	39	0.04
	Shields ...	29.77	49	S	2	O	29.25	-65	50	49	+8	S	2	0	2	54	40	-
	Spurn Head ...	29.86	51	S	4	O	29.34	-62	51	50	+4	S	7	7	5	55	47	0.23
	York ...	29.85	51	SW	3	b	29.31	-65	50	50	+8	SSW	3	7	*	55	40	0.33
	Loughborough	29.88	49	SSE	2	O	29.35	-64	51	50	+6	S	5	7	*	58	44	0.28
GERMANY & HOLLAND.	Ardrossan ...	29.51	52	S	5	T	29.22	-62	48	47	-2	N	5	C	4	55	47	0.90
	Malin Head ...	29.20	47	S	7	OT	29.24	-53	45	42	0	N	4	b	3	50	42	0.15
	Mullaghmore ...	29.17	53	SSE	10	T	29.31	-48	45	41	-4	SW	5	cp	3	54	43	0.47
	Belmullet ...	29.13	53	SSW	10	T	29.29	-41	46	42	-5	WSW	3	b	*	53	44	0.50
	Donaghadee ...	29.53	52	SW	6	T	29.32	-58	43	42	+1	N	5	b	3	52	41	0.47
	Liverpool (Bidston)	29.80	52	SSE	2	O	29.35	-64	48	47	0	N	4	T	3	55	48	0.39
	Holyhead ...	29.82	54	SSW	6	O	29.36	-61	48	46	-2	WNW	4	cg	4	56	48	0.80
	Parsonstown ...	29.40	50	SE	2	T	29.41	-44	41	40	-1	Z	0	b	*	53	40	0.37
	Valencia ...	29.34	55	SSW	9	gmr	29.46	-39	48	45	-5	SW	3	C	4	55	41	1.42
	Roche's Point...	29.46	52	S	9	T	29.43	-54	46	44	-7	N	2	b	5	54	45	1.10
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.75	54	S	6	O	29.45	-51	49	49	-3	N	4	O	6	55	50	1.07
	Scilly ...	29.83	55	SSW	7	O	29.52	-54	51	50	-1	NW	4	7	6	58	49	1.07
	Prawle Point ...	29.95	54	SSW	5	O	29.51	-59	52	52	-1	WSW	5	7	4	57	50	0.45
	Jersey (St. Aubin's)	30.07	57	S	4	b	29.64	-56	56	54	0	WSW	7	OTM	6	61	54	0.26
	Hurst Castle ...	30.01	55	WSW	6	C	29.50	-62	55	55	+3	SW	0	OTM	6	58	51	0.64
	Dungeness ...	30.03	55	WSW	4	C	29.60	-50	53	53	+2	SW	8	T	6	59	49	0.10
	London ...	30.01	52	SSW	2	b	29.52	-58	52	51	+3	S	5	T	*	58	48	0.14
	Oxford ...	29.91	49	S	4	O	29.42	-67	52	51	+8	S	3	T	*	57	44	0.36
	Cambridge ...	29.93	50	SW	1	O	29.46	-60	51	50	+5	SW	3	T	*	58	44	0.17
	Yarmouth ...	29.99	50	WSW	3	b	29.55	-47	51	50	+6	SSW	6	O	5	55	43	0.15
PENINSULA.	Cuxhaven ...	29.98	46	N	5	b	29.90	-02	44	44	-3	SSW	3	0	*	54	43	0.12
	Berlin ...	30.08	50	N	2	b	30.04	-06	43	41	-3	SW	3	0	*	57	41	-
	Wiesbaden ...	*	*	*	*	*	30.02	-20	39	37	-2	SE	0	0	*	59	36	-
	Munich ...	30.22	47	SE	1	C	30.11	-14	43	43	-5	E	5	7	*	52	36	0.08
	The Helder ...	30.02	53	WSW	2	b	29.74	-28	47	45	-5	S	4	0	3	55	46	-
	Brussels (9 a.m.)	*	*	*	*	*	29.83	-34	46	43	0	SSE	4	0	*	58	42	0.04
	Cape Gris Nez	30.06	53	WSW	5	C	29.71	-35	50	46	-4	SSW	6	T	6	55	46	0.04
	Paris ...	30.19	47	S	1	b	29.89	-37	43	41	+7	S	3	b	*	62	36	-
	Brest ...	?	56	SSW	5	O	?	?	57	57	+3	SW	6	T	6	61	54	0.67
	Lorient ...	30.08	56	SSW	3	C	29.71	-50	57	54	+2	SSW	7	T	5	61	52	0.04

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

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



# WEATHER CHARTS

for 8 a.m. on Monday, 19<sup>th</sup> October, 1891.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP

**BAROMETER**—Isobars are drawn for each tenth of an inch.  
Changes since previous morning are stated in words.  
**WIND**—Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus—  
→ forces above 10; →→ forces 8 to 10;  
→→ forces 5 to 7; →→ forces 1 to 4.  
☉ dead calm.

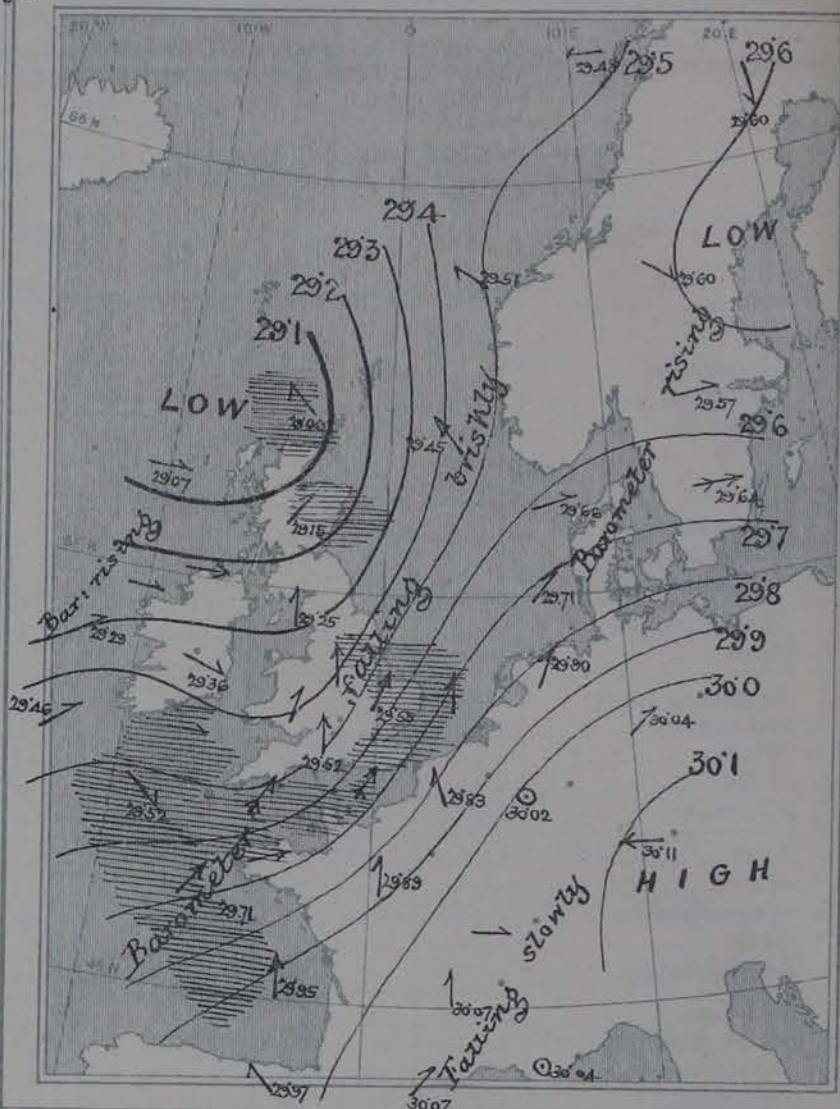
**SEA DISTURBANCE**—Where considerable, is shown thus—

☰ = Rough. ☱ = High.

### MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.726
Stornoway	29.756
Wick	29.763
Nairn	29.779
Aberdeen	29.793
Leith	29.822
Shields	29.846
Spurn Head	29.867
York	29.882
Loughborough	29.904
Ardrossan	29.931
Mullagmore	29.945
Donaghadee	29.950
Holyhead	29.972
Liverpool	29.979
Parsonstown	29.997
Valencia	29.996
Roche's Point	29.992
Pembroke	29.988
Scilly	29.910
Prawle Point	29.931
Jersey	29.925
Hurst Castle	29.922
Dover	29.916
LONDON	29.923
Oxford	29.921
Cambridge	29.912
Yarmouth	29.894



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

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

**WEATHER**—is shown by letters of the Beaufort Scale.

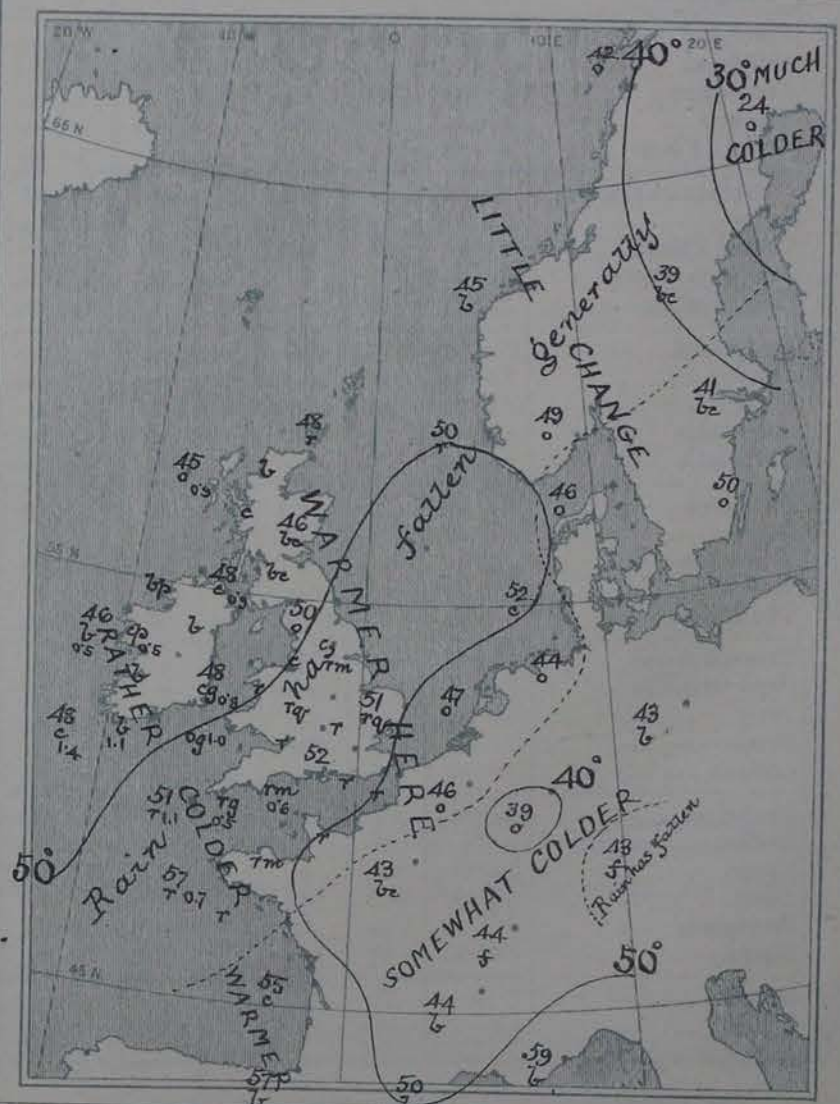
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of October.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head .....	49.8	41.6	46.0	44.3	4.27
Stornoway .....	51.0	40.5	45.6	44.5	5.04
Wick .....	51.7	40.5	46.3	44.6	3.02
Nairn .....	51.9	40.8	44.8	42.9	2.38
Aberdeen .....	52.5	41.4	45.6	43.6	2.87
Leith .....	54.7	41.8	46.7	44.9	1.97
Shield .....	53.2	42.7	47.2	45.4	2.48
Spurn Head .....	53.3	45.7	48.8	47.3	2.27
York .....	54.5	41.4	45.9	44.5	2.60
Loughborough .....	55.7	41.1	45.9	44.0	2.80
Ardrossan .....	53.7	43.7	47.8	45.8	3.87
Mullagmore .....	54.2	45.7	49.1	46.9	4.75
Donaghadee .....	53.6	43.6	47.8	46.6	3.14
Holyhead .....	54.7	47.3	50.3	48.3	4.31
Liverpool .....	53.8	44.7	47.8	45.8	3.46
Parsonstown .....	54.8	41.0	46.2	44.5	3.16
Valencia .....	56.6	46.8	51.4	49.2	5.88
Roche's Point .....	56.0	46.1	50.2	48.3	4.09
Pembroke .....	54.9	48.0	51.2	49.2	3.96
Scilly .....	56.6	50.2	53.7	51.6	3.70
Prawle Point .....	56.7	46.2	51.2	49.6	3.60
Jersey .....	58.2	48.6	53.3	50.7	4.45
Hurst Castle .....	57.1	45.8	50.8	49.2	3.28
Dover .....	56.1	46.2	50.2	48.2	3.22
LONDON .....	56.7	42.7	47.5	45.9	2.57
Oxford .....	55.5	42.2	46.2	44.9	2.56
Cambridge .....	56.5	41.0	46.4	45.3	2.27
Yarmouth .....	54.3	44.6	49.0	47.6	2.92

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.





# GENERAL SITUATION AT 8 A.M.

**PRESSURE**  
 Highest, 30.1 in: and upwards, over South Germany, 30.0 in: and upwards, over Germany, the east and south of France and the greater part of Spain.  
 Lowest, 29.1 in: and less, in a depression, the centre of which lies off the north of Scotland.  
 Gradients rather steep over the North Sea and the east and southeast of England, but moderate or slight elsewhere.  
 Barometer falling generally, but rising in the extreme west and northwest of our Islands, as well as in Sweden.

**TEMPERATURE**  
 Highest, 59° at Nice, 57° at Beirut, Lorient, and Brest, 56° at Jersey, and 55° at Huntly and Rochefort.  
 Lowest, 24° at Hakaranda, 39° at Bornö and, 41° at Stockholm and Petersburg, and 42° at Koss.  
 The maxima registered yesterday were below 60° in nearly all parts of the United Kingdom.

**WIND**  
 Light to moderate from the West or S.W. in the west and north of our Islands.  
 Strong to a gale from the East over the North Sea, the east and southwest of England, and the west of France.  
 S.E. in the west of Norway; W. or N.W. in Sweden.

**WEATHER**  
 Fine at several of the Irish and Scotch stations, as well as in Scandinavia, Germany, and the east and south of France.  
 Drizzle elsewhere, with rain over the whole of England.  
 Heavy rain has fallen in the west and north, the largest amounts being 1.4 in. at Valencia del, and 1.1 in. at Rochfort, Kilmote, and Sully.

**SEA**  
 Rough on our south and southwest coasts, and rather so at the more exposed northern stations.



## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression off the north of Scotland seems likely to travel away to the northward, but the recovery of pressure which took place at Valencia Island during the night has apparently ceased, so that further secondary disturbances are probably about to advance from the southwestward.

## FORECASTS

For the 24 hours ending at NOON on 20<sup>th</sup> OCT<sup>r</sup> 1891.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 { SCOTLAND NORTH	W <sup>2</sup> and S W <sup>2</sup> winds, changeable, some showers	6 { SCOTLAND WEST	Same as Nos 0. and 1.
1 { SCOTLAND EAST		7 { ENGLAND N.W.	
2 { ENGLAND N.E.	Same as No 5.	8 { ENGLAND S.W.	W <sup>2</sup> and S W <sup>2</sup> winds, strong at times squally, some showers.
3 { ENGLAND EAST		9 { IRELAND NORTH	
4 { MIDLAND COUNTIES		10 { IRELAND SOUTH	
5 { ENGLAND SOUTH	S <sup>2</sup> and S W <sup>2</sup> gales, veering to the W <sup>2</sup> and moderating; squally and rainy at first some improvement later, but still showery	WARNINGS	
		The SOUTH CONE was hoisted yesterday on all coasts, but the signals have been lowered this morning in districts 0.1.67 <sup>19</sup>	

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

The SOUTH CONE was hoisted yesterday on all coasts, but the signals have been lowered this morning in districts 0.1.6.7.9



# 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 ...	29.84	49	46	WNW	6	0	5	Holyhead ...	29.85	52	49	SSW	6	09	5
Sumburgh Head ...								Valencia ...							
Stornoway ...	29.55	49	49	S	6	1	5	Scilly ...							
Aberdeen ...								Jersey ...	30.16	60	52	W	3	6	3
Shields ...								Dungeness ...	30.07	58	52	W	5	60	4
Ardrossan ...								London ...							*
Malin Head ...	29.55	50	47	S	5	0	3	Yarmouth ...							
Mullaghmore ...								Rochefort ...	30.22	67	59	E	3	6	*
Belmullet ...	29.41	51	49	SSW	7	0	*								

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

Weather in morning fine and bright over southeastern, southern and western Europe and the greater part of the British Islands, still dull and rainy in the north, and becoming unsettled again on the Atlantic coast of Ireland. Heavy rain falling on our southwest coasts, at Ardrossan and in Brittany later and unsettled weather spreading to all parts of the Kingdom. Hails seen in several places.

Temperature in morning exceeding 70° on the southern and exceeding 60° on the northern side of the Mediterranean, very little above 50° on the Atlantic and Channel coasts of France and the British Islands, much lower elsewhere. Below 40° over central Scotland, and as low as (1) 19° at Archangel, 38° at Moscow; (2) 35° at Nicolaieff, and 38° at Kharkov; (3) 36° at Nain, 40° at Wick, 42° at Shields and York, (4) 36° at Paris, 57° at Le Mans. Not touching 60° in any part of St. Britain and Ireland later, but rising to 61° at Jersey to 68° in the south of France and to 70° at Rochefort.

Wind still very light and variable over the Mediterranean, eastern and central Europe; W<sup>ly</sup> over the Channel and the northern parts of France and Germany; SW<sup>ly</sup> over the greater part of England. Strong and increasing S<sup>ly</sup> winds reported over Ireland, and a well-marked cyclonic circulation over northern Europe - the W<sup>ly</sup> winds of which blew hard over the Baltic and south of Norway. Severe S<sup>ly</sup> gales on our western coasts later and spreading as a strong, squally wind to all other parts of the Kingdom.

Barometer - Highest 30.2 ins. and more to 30.1 ins. in an anticyclone covering the greater part of southwestern and western Europe, and in another over southern Russia and the Black Sea. Lowest 29.4 ins. and less in a depression over Scandinavia; 29.7 ins. and less off our own northwestern coasts. Falling rapidly in Ireland later, and fall spreading eastwards all over the British Islands.

## SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 11<sup>th</sup> TO 17<sup>th</sup> OCTOBER 1891.

The weather of the past week was exceedingly rough and unsettled, with severe gales in all parts of the United Kingdom and with heavy rain in the western and northern districts. Thunderstorms have occurred over Ireland and England, as well as at many of the Continental stations.

In the course of the week three depressions of considerable size and depth have travelled in a north-northeast direction along our western coasts.

The first of these passed along to the westward of our Islands on the 11<sup>th</sup>. Its centre was apparently at a considerable distance from our shores, but the system spread out in an easterly direction and gales from the S<sup>ly</sup> were experienced in nearly all parts of the Kingdom with considerable falls of rain in most districts.

The second, a depression of unusual intensity (with minimum readings as low as 28.00 inch) advanced rapidly from the SW<sup>ly</sup> on the morning of the 13<sup>th</sup> and after crossing Ireland and the west of Scotland travelled away to the northward of our Islands the same night. During its progress severe gales from the S<sup>ly</sup> (SE to SW) were experienced on all our coasts, with heavy rain in the west and north. In the rear of the main disturbance several small secondary depressions traversed Ireland and England, occasioning thunderstorms and heavy showers, with a continuance of the gales over the English Channel.

The third also of considerable depth (with minimum readings below 28.9 ins.) advanced rapidly from the southwestward on the night of the 15<sup>th</sup> and travelled across the north of Ireland and the central parts of Scotland to the west of Norway. During its progress further gales were experienced in most districts, with lightning in the north of Scotland.

At the close of the week the barometer was rising generally and the wind was veering to the W<sup>ly</sup> & subsiding.

### EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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

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

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

„ Weekly „ „ „ £1 10 0 „



# DAILY WEATHER REPORT.

for *Tuesday 20<sup>th</sup> October.* 1891.  
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
	Reading at 32° F. and Sea Level.	Dry.	Direc.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)		Weather.	Max.		Min.	
SCANDINAVIA.	Haparanda ...	29.78	25	NE	4	C	29.79	+19	23	22	-1	NE	4	C	*	32	23	—
	Hernösand ...	29.71	36	NW	2	T	29.58	-02	35	32	-4	ENE	4	C	*	43	32	0.04
	Stockholm ...	29.64	45	E	2	O	29.33	-24	45	44	+4	ESE	4	T	*	48	39	0.24
	Wisby ...	29.69	48	S	4	T	29.35	-29	50	45	0	SSE	6	T	*	52	45	0.53
	Bodö ...	29.50	38	E	4	G	29.45	-03	34	32	-8	E	7	bc	4	43	32	—
	Christiansund	29.17	49	SW	2	bc	29.13	-38	49	44	+4	SW	1	O	3	?	45	—
	Skudesnaes ...	29.10	49	WNW	1	T	29.34	-11	48	43	-2	WNW	4	C	4	?	46	1.96
	Christiania Fjord (Færder)	29.36	49	SSE	7	T	29.18	-42	48	46	-1	WNW	5	G	5	52	48	0.79
	Skagen (The Scaw)	29.32	50	SWW	8	T	29.19	-47	51	47	+5	WNW	6	bc	3	52	46	0.32
	Fanö ...	29.34	52	WNW	6	C	29.49	-22	51	48	-1	WNW	4	C	*	54	48	0.24
BRITISH ISLANDS.	Sumburgh Head	29.06	47	NW	4	T	29.23	+17	46	44	-2	SW	1	G	4	52	41	0.03
	Stornoway ...	29.16	44	SW	2	bc	29.16	+09	47	47	+2	SW	4	O	4	52	39	0.30
	Wick ...	29.20	43	NW	1	G	29.23	+18	49	48	+3	S	1	G	1	51	38	—
	Nairn ...	29.20	41	Z	0	G	29.22	+12	40	38	-8	SW	1	G	1	51	34	—
	Aberdeen ...	29.24	41	NW	1	G	29.32	+17	42	40	-4	SWW	2	bmw	3	54	33	—
	Leith ...	29.30	46	WNW	3	G	29.31	+11	43	42	-5	S	2	G	*	54	38	—
	Shields ...	29.33	45	SW	2	bc	29.38	+13	41	40	-9	SWW	2	C	2	53	38	0.02
	Spurn Head ...	29.43	50	WNW	3	O	29.52	+18	46	45	-5	SWW	3	bc	3	51	42	0.13
	York ...	29.39	47	W	3	G	29.44	+13	43	42	-7	SSE	1	C	*	52	36	0.05
	Loughborough	29.43	47	WNW	1	O	29.47	+12	42	42	-9	ESE	2	cmw	*	52	40	0.15
GERMANY & HOLLAND.	Ardrossan ...	29.30	49	WNW	2	G	29.26	+04	47	47	-1	ESE	3	bc	2	52	45	—
	Malin Head ...	29.21	46	SWW	4	bc	29.14	-10	42	41	-8	SSE	4	bc	3	50	41	—
	Mullaghmore ...	29.23	47	S	5	bc	29.11	-20	47	44	+2	SE	4	C	4	51	44	—
	Belmullet ...	29.20	47	WNW	4	C	29.00	-29	45	44	-1	SE	4	O	*	51	44	0.16
	Donaghadee ...	29.33	43	SW	2	G	29.26	-06	43	42	0	S	2	G	0	52	41	0.01
	Liverpool (Bidston)	29.45	46	SW	2	C	29.40	+05	45	44	-3	SE	3	bc	3	50	40	0.06
	Holyhead ...	29.41	49	SWW	4	bc	29.32	-04	51	49	+3	SW	2	bc	2	53	47	0.09
	Parsonstown ...	29.33	45	Z	0	bc	29.17	-24	45	44	+4	SE	1	bc	*	52	40	—
	Valencia ...	29.34	49	SW	5	bc	29.06	-40	52	50	+4	S	7	of	6	53	46	0.16
	Roche's Point...	29.41	47	WNW	5	P	29.20	-23	52	50	+6	SWW	7	bc	5	54	46	0.20
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.46	57	WNW	4	bc	29.34	-11	53	52	+2	SWW	5	bcpg	5	53	48	0.12
	Scilly ...	29.52	57	WNW	4	G	29.39	-13	54	52	+3	SW	6	E	6	54	47	0.19
	Prawle Point ...	29.53	57	E	3	om	29.48	-05	53	50	+1	SWW	5	C	4	53	48	0.11
	Jersey (St. Aubin's)	29.61	52	WNW	2	Tm	29.59	-02	56	54	0	S	4	omga	4	58	51	0.81
	Hurst Castle ...	29.56	52	WNW	4	Tg	29.53	+03	54	54	-1	SW	5	bc	5	56	50	0.31
	Dungeness ...	29.54	51	WNW	3	P	29.59	-03	54	53	+1	W	3	T	2	53	51	0.38
	London ...	29.53	50	SW	2	O	29.56	+04	50	48	-2	S	2	C	*	55	48	0.34
	Oxford ...	29.54	47	SW	2	O	29.52	+10	45	44	-7	S	2	G	*	54	43	0.12
	Cambridge ...	29.58	49	SW	1	O	29.55	+09	47	46	-4	S	1	C	*	54	41	0.15
	Yarmouth ...	29.48	50	WNW	2	O	29.56	+01	48	47	-3	SW	2	bm	3	54	44	0.19
PENINSULA.	Cuxhaven ...	29.63	49	S	5	bc	29.60	-30	50	49	+6	WNW	3	C	*	53	?	0.08
	Berlin ...	29.75	50	SSE	3	O	29.69	-35	53	52	+12	WNW	4	O	*	55	?	—
	Wiesbaden ...	29.74	49	S	*	*	29.77	-25	52	51	+13	Z	0	O	*	54	?	—
	Munich ...	29.94	49	SSE	1	G	29.93	-18	46	45	+3	SE	1	G	*	57	41	—
	The Helder ...	29.49	52	WNW	2	T	29.65	-09	51	48	+4	WNW	1	bc	2	54	46	0.24
	Brussels (9 a.m.)	29.54	53	WNW	2	T	29.87	+04	51	51	+5	SE	2	O	*	55	?	0.43
	Cape Gris Nez	29.61	61	S	4	O	29.59	-12	54	53	+4	SWW	4	C	4	57	48	0.38
	Paris ...	29.68	54	W	2	T	29.72	-19	52	52	+9	SSE	1	T	*	61	?	0.20
	Brest ...	29.65	54	W	2	T	29.54	-?	53	52	-2	SW	4	O	5	59	52	0.43
	Lorient ...	29.66	53	S	1	T	29.60	-11	54	52	-3	SWW	1	C	5	59	52	0.47
FRANCE AND BELGIUM.	Rochefort ...	29.86	57	W	2	bc	29.75	-?	44	39	0	W	2	f	*	62	34	—
	Belfort ...	29.91	60	S	3	G	29.83	-24	61	58	+17	SWW	3	E	*	68	?	—
	Lyons ...	30.02	60	E	1	G	29.99	-07	59	57	0	ENE	1	C	1	68	57	—
	Perpignan ...	29.94	62	S	3	O	29.82	-25	54	52	+4	NIE	1	G	*	66	50	—
	Biarritz ...	29.83	?	Z	0	bc	29.72	-25	66	58	+9	SW	4	G	2	79	?	—

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

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



# WEATHER CHARTS

for 8 a.m. on Tuesday, 20<sup>th</sup> Oct<sup>r</sup>, 1891.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP

**BAROMETER**—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

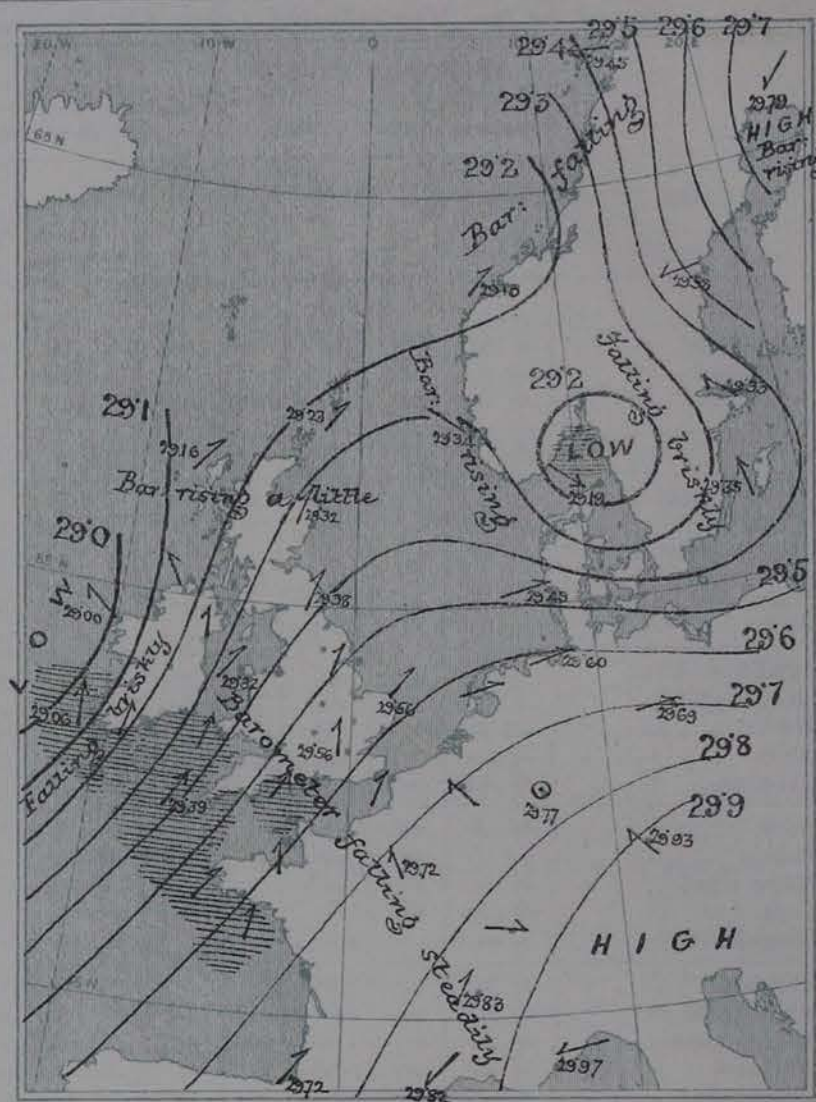
**WIND**—Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus—  
 — forces above 10; — forces 8 to 10;  
 — forces 5 to 7; — forces 1 to 4.  
 — dead calm.

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

## MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.726
Stornoway	29.756
Wick	29.763
Nairn	29.779
Aberdeen	29.793
Leith	29.822
Shields	29.846
Spurn Head	29.867
York	29.882
Loughborough	29.904
Ardrossan	29.831
Mullaghnore	29.845
Donaghadee	29.850
Holyhead	29.872
Liverpool	29.879
Parsonstown	29.897
Valencia	29.896
Roche's Point	29.892
Pembroke	29.888
Scilly	29.910
Prawle Point	29.931
Jersey	29.925
Hurst Castle	29.921
Dover	29.916
LONDON	29.923
Oxford	29.924
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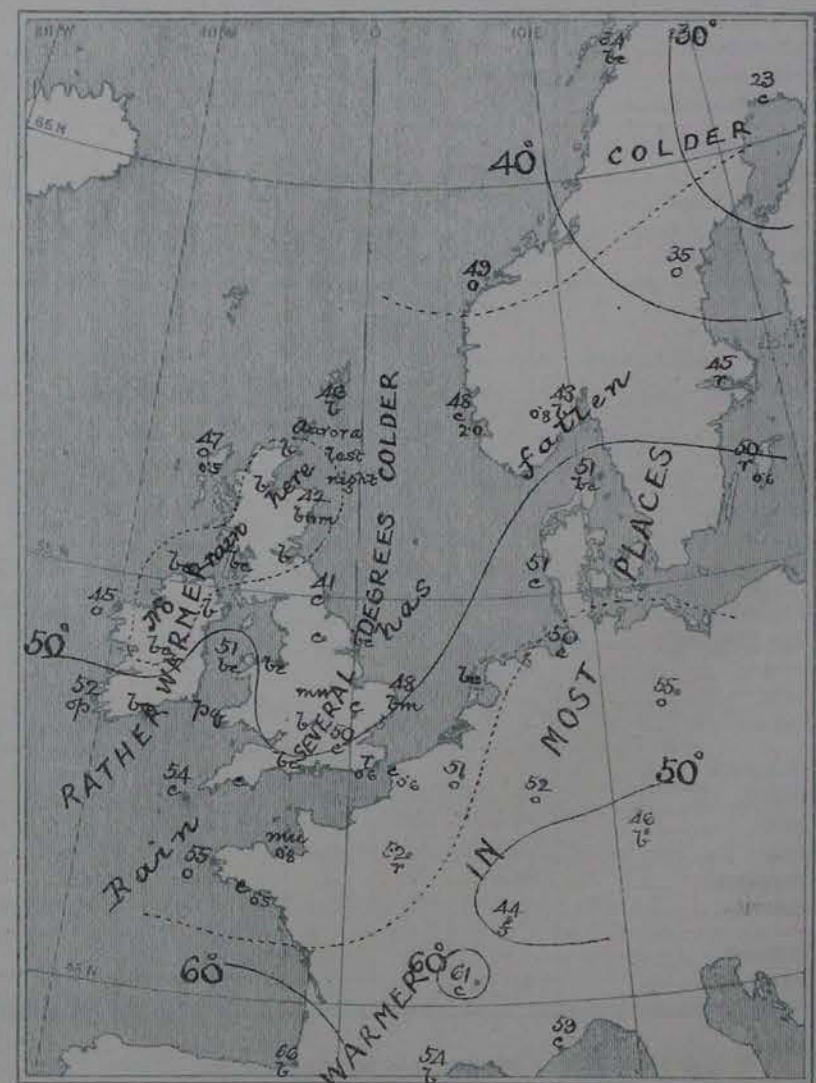
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(For the month of October.)

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	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
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Liverpool.....	53.8	44.7	47.8	45.8	3.46
Parsonstown .....	54.8	41.0	48.2	44.5	3.16
Valencia.....	56.6	46.8	51.4	49.2	5.88
Roche's Point.....	56.0	46.1	50.2	48.3	4.09
Pembroke.....	54.9	48.0	51.2	49.2	3.96
Scilly.....	56.6	50.2	53.7	51.6	3.70
Prawle Point .....	56.7	46.2	51.2	49.6	3.60
Jersey.....	58.2	48.6	53.3	50.7	4.46
Hurst Castle .....	57.1	45.8	50.8	49.2	3.28
Dover.....	56.1	46.2	50.2	48.2	3.22
LONDON .....	56.7	42.7	47.5	45.9	2.57
Oxford.....	55.5	42.2	46.2	44.9	2.56
Cambridge.....	56.5	41.0	46.4	45.3	2.27
Yarmouth.....	54.3	44.6	49.0	47.6	2.92

**NOTE**—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 29.9 in. and upwards, over South Germany, Switzerland, and the northeast of France.  
 Lowest, 29.0 in. and less, in a depression lying to the westward of Ireland; 29.2 in. and less, in another disturbance lying over the south of Scandinavia.  
 Gradient moderate generally, but increasing on our southwest coasts.  
 Barometer rising a little in the north and east of Great Britain and also on the eastern shores of the North Sea, but falling elsewhere - notably in the south of Ireland.

## TEMPERATURE

Highest, 66° at Biarritz, 62° at London, 61° at Lyons, 59° at Nice, 56° at Jersey, and 55° at Berlin and West.  
 Lowest, 23° at Haparanda, 34° at Stockholm, 35° at Helsingfors, 40° at Narvik, and 42° at Aberdeen, Malin Head and Loughborough.  
 The maxima registered yesterday were below 55° in most parts of the United Kingdom.

## WIND

S<sup>2</sup> over the greater part of our Islands and France, strong in force on our southwest coast, with a moderate gale at Valencea Isl. and Rockall.  
 Moderate from the W<sup>2</sup> on the eastern shore of the North Sea, but E<sup>2</sup> in Sweden and the north of Norway.  
 A strong gale from the SW<sup>2</sup> was experienced yesterday on the eastern shores of the North Sea.

## WEATHER

Fair over the greater part of Western Europe, but showery on our southwest coasts, and raining in the south of Sweden.  
 Heavy rain fell yesterday over the south of our Islands and the north of France, as well as at some of the Scandinavian stations.  
 A lunar halo was seen last night in London, lightning at Rotherhithe, and aurora in the north of Scotland.

## SEA

Rough or rather so on most parts of our south and southwest coasts, but moderate or slight elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The new depression which is approaching Ireland is evidently of considerable size and depth, and seems likely to occasion strong winds or gales in most parts of the Kingdom, with heavy rain in places.

# FORECASTS

For the 24 hours ending at NOON on 21<sup>st</sup> OCT<sup>r</sup> 1891.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 { SCOTLAND NORTH	} S <sup>2</sup> <sub>4</sub> and SE <sup>2</sup> <sub>4</sub> winds, increasing in force; fine to squally and rainy.	6 { SCOTLAND WEST	} SE <sup>2</sup> <sub>4</sub> winds, increasing to a gale; fair to squally and rainy.
1 { SCOTLAND EAST		7 { ENGLAND N.W.	
2 { ENGLAND N.E.		} S <sup>2</sup> <sub>4</sub> and SW <sup>2</sup> <sub>4</sub> winds, increasing to a gale; fair to squally and rainy.	8 { ENGLAND S.W.
3 { ENGLAND EAST	9 { IRELAND NORTH		Same as Nos 6 and 7.
4 { MIDLAND COUNTIES	10 { IRELAND SOUTH		S <sup>2</sup> <sub>4</sub> to SW <sup>2</sup> <sub>4</sub> strong winds and gales; squally, rainy.
5 { ENGLAND SOUTH	WARNINGS		
		The SOUTH CONE has been hoisted this morning in districts 7 to 10. It is still flying in districts 2, 3 and 5.	

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 ...	27.25	51	50	SE	8	7	5	Holyhead ...	27.40	51	46	W	2	6	2
Sumburgh Head ...	27.02	49	48	W	2	6c	4	Valencia ...	27.38	48	46	SW	6	8p	5
Stornoway ...	27.15	52	47	W	3	6c	3	Scilly ...	27.52	52	50	W	4	7p	6
Aberdeen ...	27.18	45	45	W	4	6c	4	Jersey ...	27.56	53	52	W	4	7m	5
Shields ...	27.27	53	46	SW	4	6c	2	Dungeness ...	27.48	53	53	W	7	7	5
Ardrossan ...	27.27	49	48	W	4	C	3	London ...	27.45	53	51	SW	2	OTM	*
Malin Head ...	27.24	50	45	SW	4	6	3	Yarmouth ...	27.42	52	50	W	4	OTM	5
Mullaghmore ...	27.27	51	45	S	5	6v	3	Rocheport ...	27.46	65	59	SW	5	6c	?
Belmullet ...	27.25	49	46	W	3	Cp	*								

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

Weather dull and rainy over England and the north of France as well as in the Shetlands, the west of Norway, and several parts of Russia. Fine in most other localities, but showery in the north of Ireland, and foggy in several parts of Central Europe. Considerable amounts of rain falling during day over the south of England and the north of France, as well as in Scandinavia. Lunar halo seen in London at night, lightning at Rocherpoint and our aurora in the north of Scotland.

Temperature highest 77° at Lausanne, 73° at Algiers, 71° at Marseilles, 70° at Cagliari and 68° at Barcelona; above 60° in many parts of southern Europe, and above 55° at some of the Channel stations. Lowest, 15° at Archangel, 24° at Khabarovsk, 33° at Uleaborg, and 37° at Kuopio, below 40° in the northern parts of Sweden and Russia, as well as in isolated parts of Central Europe; as low as 41° at Banamorton. Daily maxima below 55° in most parts of the United Kingdom, but thermometer exceeding 65° in the south of France and reaching 73° at Biarritz.

Wind moderate from the West or SW in the west and north of our Islands, strong to a gale from the East over the Channel, the south-east of England, and the North Sea. Light or moderate from the SW over Denmark, Germany, and the Baltic Provinces, but N or NE over Lapland. Light and variable over southern Europe and the Mediterranean. Gale in Channel subsiding later, but rapid beginning to build again on our western coast.

Barometer highest 30.1 in. and upwards over Austria, and also over southern Italy, and the adjacent part of the Mediterranean. 30.0 in. and upwards over the whole of central and southern Europe. Lowest 29.1 in. and less, in a depression lying off the north of Scotland, 29.3 in. and less, in a small system lying over Finland. Former disturbance subsequently travelling away in a northerly direction but new depression beginning to advance from the Atlantic.

### EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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

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„ Weekly „ „ „ £1 10 0 „



# DAILY WEATHER REPORT.

for *Wednesday, 21<sup>st</sup> October, 1891.*  
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 5.)	SHADE TEMP.		Amount of Rainfall.	
	Reading at 32° F. and Sea Level.	Dry.	Dirce.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirce.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...	29.84	21	N	4	b	30.00	+21	19	18	-4	ESE	2	bc	*	28	?	-
	Hernösand ...	29.61	35	NE	8	r	29.80	+22	32	31	-3	NW	2	os	*	37	30	0.16
	Stockholm ...	29.42	45	SW	6	0	29.66	+33	40	39	-5	NNW	2	0	*	54	41	0.08
	Wisby ...	29.56	50	N	6	b	29.71	+36	47	45	-3	NW	6	b	*	52	43	-
	Bodö ...	29.52	33	E	7	0	29.57	+12	32	31	-2	E	7	S	4	34	27	0.35
	Christiansund	29.40	47	SW	4	c	29.51	+38	43	40	-6	E	3	b	4	49	43	0.08
	Skudesnaes ...	29.49	50	SSE	6	0	29.44	+10	51	48	+3	SE	6	0	4	?	48	0.04
	Christiania Fjord (Færdler)	29.51	50	W	5	b	29.65	+47	40	39	-8	NNE	3	0	2	55	39	-
	Skagen (The Seaw)	29.58	45	WSW	1	b	29.89	+40	51	46	0	SSE	2	bc	0	55	41	-
	Fanö ...	29.59	48	SSE	4	bc	29.45	-04	50	49	-1	ESE	5	0	*	54	46	-
BRITISH ISLANDS.	Sumburgh Head	29.27	45	SSW	1	b	29.20	-03	49	48	+3	SE	4	c	4	51	40	0.04
	Stornoway ...	29.13	49	SW	3	c	28.98	+18	49	48	+2	SE	2	0	3	52	45	0.03
	Wick ...	29.28	49	NNE	3	bc	29.10	-13	51	50	+2	SSE	6	ou	4	55	40	0.03
	Nairn ...	29.18	48	SW	1	0	29.02	-20	48	45	+8	W	0	bc	1	54	39	-
	Aberdeen ...	29.27	48	SSE	3	cp	29.10	-22	50	48	+8	SSE	4	ogu	5	51	42	0.03
	Leith ...	29.23	49	S	1	bc	29.05	-26	46	46	+3	SE	1	bc	*	54	38	-
	Shields ...	29.30	50	S	3	b	29.09	-29	49	48	+8	SE	3	r	2	54	40	0.03
	Spurn Head ...	29.36	51	SE	4	bc	29.22	-30	52	50	+6	SSE	4	r	4	55	44	0.01
	York ...	29.34	52	SSE	2	b	29.14	-30	49	48	+6	SSE	2	r	*	55	40	0.03
	Loughborough	29.35	50	SE	2	c	29.18	-34	50	49	+8	S	4	c	*	60	42	0.02
GERMANY & HOLLAND.	Ardrossan ...	29.14	52	S	3	c	28.94	-32	49	49	+2	E	4	r	3	54	44	0.57
	Malin Head ...	28.97	45	S	4	or	28.81	-33	45	44	+3	SE	5	b	3	51	42	0.15
	Mullaghmore ...	28.95	48	S	4	c	28.72	-39	47	44	0	SE	5	bc	4	55	45	0.12
	Belmullet ...	28.90	47	SE	5	bc p	28.56	-44	45	44	0	SSE	8	q p	*	50	43	0.39
	Donaghadee ...	29.10	52	SSW	6	c	28.92	-34	48	47	+5	S	3	c	1	55	42	0.25
	Liverpool (Bidston)	29.25	50	ESE	3	c	29.04	-36	47	46	+2	SSE	4	c	3	54	45	0.04
	Holyhead ...	29.16	52	SSE	5	cyp	28.98	-34	50	48	-1	SSW	4	c q	4	55	47	0.45
	Parsonstown ...	29.03	47	SE	1	c	28.81	-36	44	43	-1	W	0	b	*	55	43	0.31
	Valencia ...	28.95	50	SSW	7	ogkl	28.79	-27	51	47	-1	SW	6	o q	6	52	46	0.52
	Roche's Point...	29.07	50	SSW	6	bc	28.85	-35	51	49	-1	SW	6	c	5	53	48	0.50
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.17	51	S	6	c	29.00	-34	53	51	0	SSW	5	bc p	5	56	49	0.30
	Scilly ...	29.20	53	SW	5	bc	29.08	-31	53	50	-1	SW	5	bc	6	58	48	0.14
	Prawle Point...	29.33	52	SSW	7	r	29.12	-36	52	50	-1	SW	6	bc q p	5	56	49	0.32
	Jersey (St. Aubin's)	29.43	57	SSE	4	c	29.29	-28	55	51	-1	SW	5	bc	5	59	53	0.12
	Hurst Castle ...	29.41	55	WSW	4	b	29.23	-30	52	52	-2	SW	7	c	5	59	51	0.94
	Dungeness ...	29.44	57	SW	5	op	29.27	-30	57	55	+3	SW	5	c	4	57	53	0.07
	London ...	29.42	52	SSW	2	bc	29.22	-34	54	53	+4	S	3	c	*	57	47	0.02
	Oxford ...	29.36	49	S	3	b	29.18	-34	51	50	+6	S	3	cp	*	56	45	0.14
	Cambridge ...	29.41	50	S	1	c	29.21	-34	53	52	+6	S	2	r	*	58	45	0.02
	Yarmouth ...	29.44	52	S	3	c	29.28	-28	54	53	+6	S	4	bc	4	54	46	0.10
PENIN- SULA.	Cuxhaven ...	29.64	52	SSE	2	c	29.49	-11	53	53	+3	SSE	3	f	*	54	50	0.04
	Berlin ...	29.76	54	SSE	2	0	29.59	-10	53	51	-2	ESE	2	3	*	57	52	-
	Wiesbaden ...	*	*	*	*	*	29.56	-21	57	56	+5	W	0	0	*	63	52	0.79
	Munich ...	29.80	52	SE	4	c	29.65	-28	51	48	+5	ESE	2	b	*	64	45	-
	The Helder ...	29.54	52	SSE	1	c	29.39	-26	51	50	0	S	1	f	1	57	50	-
	Brussels (9 a.m.)	*	*	*	*	*	29.42	?	55	54	+4	SSE	2	r	*	55	51	0.12
	Cape Gris Nez	29.48	55	SSE	4	r	29.34	-25	51	50	-3	SSW	2	0	4	57	50	0.04
	Paris ...	29.60	56	W	2	0	29.45	-27	54	53	+2	SSE	2	0	*	61	52	0.08
	Brest ...	?	54	SW	4	0	?	?	54	51	-1	WSW	5	c	5	61	50	0.04
	Lorient ...	29.43	57	SSW	4	0	29.32	-28	56	49	+2	WSW	4	bc	5	59	54	0.04
PENIN- SULA.	Rochefort ...	29.59	58	WSW	3	0	29.46	-19	57	55	-1	W	4	0	2	61	50	0.35
	Belfort ...	?	57	W	2	0	?	?	43	41	+4	W	2	0	*	63	42	-
	Lyons ...	29.65	61	SSW	3	b	29.52	-31	59	59	-2	S	3	r	*	69	57	1.46
	Nice ...	29.91	62	SE	1	c	29.72	-25	63	60	+4	ESE	4	c	3	70	57	0.04
	Perpignan ...	?	68	SW	3	0	29.51	-31	60	59	+6	W	0	0	*	80	54	0.28
	Biarritz ...	29.62	64	WSW	4	0	29.49	-23	63	55	-3	W	5	0	5	72	55	0.35
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lisbon ...	29.76	61	SW	4	b	29.83	+07	58	54	-4	WSW	3	b	4	64	55	0.59	

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

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



# WEATHER CHARTS

for 8 a.m. on WEDNESDAY, 21<sup>st</sup> OCT., 1891.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

**WIND**—Arrows show the present winds. They fly with the wind and

their barbs and feathers refer to force thus—

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

**SEA DISTURBANCE**—Where considerable, is shown thus:

▨ = Rough. ▨ = High.

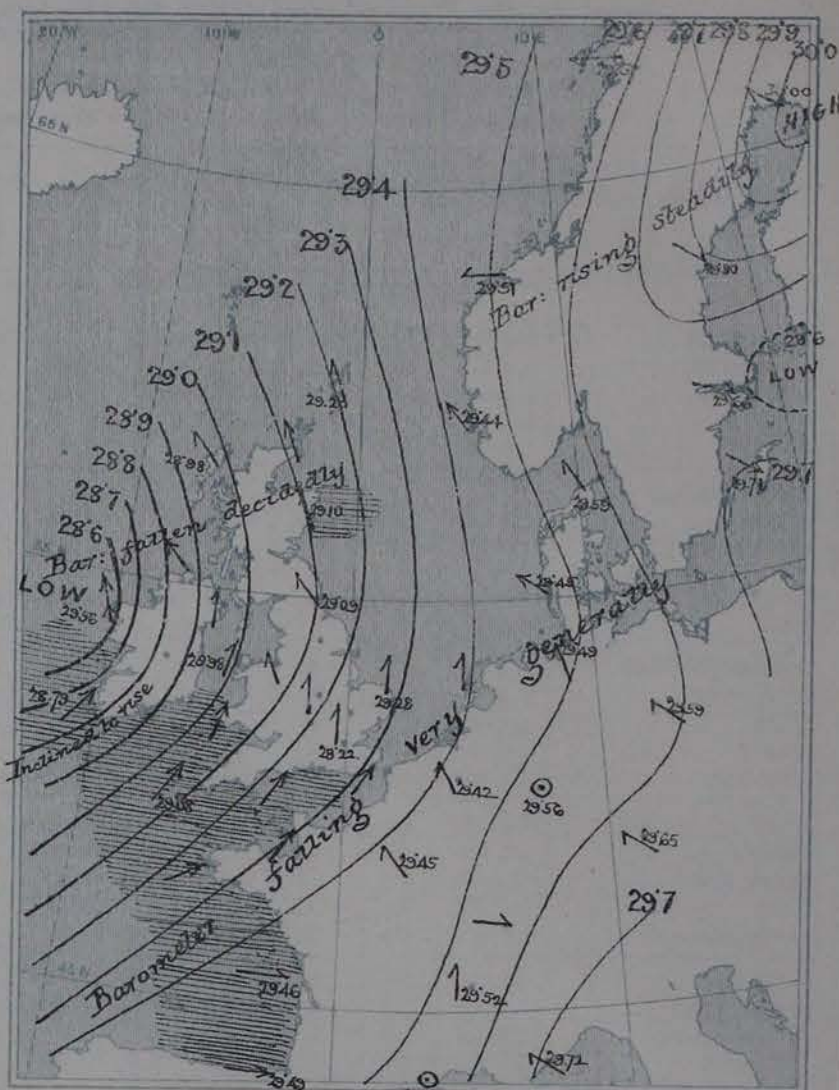
## MEAN HEIGHT OF THE BAROMETER

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

### STATIONS.

### MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.726
Stornoway	29.756
Wick	29.763
Nairn	29.779
Aberdeen	29.793
Leith	29.822
Shields	29.846
Spurn Head	29.867
York	29.882
Loughborough	29.904
Ardrossan	29.831
Mullaglmore	29.845
Donaghadee	29.850
Holyhead	29.872
Liverpool	29.879
Parsonstown	29.897
Valencia	29.893
Roche's Point	29.892
Pembroke	29.888
Scilly	29.910
Prawle Point	29.931
Jersey	29.925
Hurst Castle	29.922
Dover	29.916
LONDON	29.923
Oxford	29.921
Cambridge	29.912
Yarmouth	29.894





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.0 in. and more to 29.5 in. in an anticyclone over Northern Europe; 29.8 in. and more to 29.5 in. over the Spanish Peninsula.  
Lowest, 28.6 in. and less, in a depression off the west of Ireland; 29.3 in. and less, on our eastern coast.

Gradients rather steep over our Islands, decidedly steep in the far west, moderate over the Continent, but variable.

Barometer inclined to rise again both at Valencia 11<sup>th</sup> and in London, and continuing to rise over Sicily and the north of Norway, but falling on our north-western and northern coasts. In Portugal it is rising.

## TEMPERATURE

Highest, 63° at Nice and Bismarck, 58° at Lisbon, 57° at Punguis.

Lowest, 13° at St. Petersburg, 32° at Riga and Helsingfors, 40° at Stockholm, 44° at Parnassus, 46° at Feith.

It rose to 60° at Loughborough yesterday, and to between 55° and 59° over England generally, and to 70° and more in the south-west and south of France and to 80° at Bepignan.

## WIND

Strong to a gale from S.W. over the southern parts of our Islands, freshening from S.E. in the north.

Strong E<sup>3</sup> in the north of Norway, and moderate S.W. to W<sup>1</sup> over the Bay of Biscay.

## WEATHER

Very unsettled generally; varying more or less over the United Kingdom. Heavy snow is reported from the northern half of Scandinavia, a great deal of rain has fallen over the British Isles and France, and thunder and lightning have occurred in many places, hail in several, and Aurora at Kiel.

## SEA

Rough in the south and west, moderate in the north and east.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

During the past 24 hours the barometer has continued to fall decidedly over all parts of the British Isles, France, and Central Europe, while over Scandinavia and Finland it has risen. A well defined anticyclone has been formed over the latter regions, while a deep depression lies off the west of Ireland, and is apparently moving northwards. The general condition is very unsettled, with no indication of any permanent improvement.

## FORECASTS

For the 24 hours ending at NOON on 22<sup>nd</sup> OCT<sup>r</sup> 1891.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	SE <sup>2</sup> winds, strong to a strong gale; rainy very unsettled.	6 SCOTLAND WEST	Same as 7 <sup>th</sup> 0 and 1.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.	SE <sup>2</sup> winds, strong, squally, showery.	8 ENGLAND S.W.	SW <sup>2</sup> winds, strong to a gale; squally, showery.
3 ENGLAND EAST	S <sup>2</sup> and SW <sup>2</sup> winds, force variable, strong in Channel; squally, showery.	9 IRELAND NORTH	Same as 7 <sup>th</sup> 0 and 1
4 MIDLAND COUNTIES		10 IRELAND SOUTH	SW <sup>2</sup> and W <sup>2</sup> winds, strong; showery.
5 ENGLAND SOUTH			

## WARNINGS

The SOUTH CONE has been hoisted this morning in districts 0.1 and 6, and is still up in districts 7 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.		
Skudesnaes ...	29.47	51	45	WSW	2	c	4	Holyhead ...	29.24	55	52	S	5	bcoy	5
Sumburgh Head ...	29.26	50	47	SSW	1	b	4	Valencia ...	29.00	52	48	SSW	6	bcoy	5
Stornoway ...	29.16	52	50	S	4	b	4	Scilly ...	29.26	55	54	S	6	0	6
Aberdeen ...	29.00	50	46	S	3	bco	3	Jersey ...	29.50	58	54	S	3	0	4
Shields ...	29.84	57	50	S	3	bcm	2	Dungeness ...	29.49	57	55	SSW	4	cp	4
Ardrossan ...	29.20	53	52	S	3	c	2	London ...	29.46	57	55	SSW	2	0	8
Malin Head ...	29.03	51	48	SSW	5	0	2	Yarmouth ...	29.51	52	52	S	3	cay	4
Mullaghmore ...	28.98	54	49	SE	5	cp	3	Rocheport ...	29.63	59	48	WSW	3	1	8
Belmullet ...	28.91	48	46	SSW	4	1	*								

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

Weather fair over the greater part of Western Europe, but showery in the southwest of Ireland. Dull and rainy over the Baltic and the south of Sweden, but fine in most parts of Central and Southern Europe, with however, fog in some localities. Heavy rain falling during day in many parts of our Islands and France, with thunder and lightning; severe snowstorm at some of the Swedish stations.

Temperature highest 77° at Algiers, 72° at Barcelona, Tunis, and Malta, 71° at Cagliari and 69° at La Cella, above 60° in most parts of Southern Europe. Lowest 6° at Archangel, 23° at Kokaranda, 25° at Uleaborg, 26° at Kuopio, and 32° at Helsinki; below 40° over Russia and the north of Scandinavia generally, and very little above that point over the northern and central parts of Great Britain. Daily maxima below 55° at many of our western and northern stations, and below 60° in nearly all parts of the United Kingdom; thermometer exceeding 70° in the south of France, and reaching 80° at Perpignan.

Wind S over the greater part of our Islands and France; strong to a gale in force on our extreme southwest coasts. Moderate from the W or SW over Denmark, Germany, and the south of Norway; E or NE over the northern parts of Russia and Scandinavia. Light and variable over the central and southern parts of Europe. No important change occurring during day.

Barometer highest 30.1 ins. and upwards, in a large anticyclone lying over Turkey, the Black Sea, and the south of Russia; 29.8 ins. and upwards in another area lying over the north of Russia. Lowest 29.0 ins. and less, in a depression to the westward of Ireland, 29.2 ins. and less, in another system lying over the south of Scandinavia. Former disturbance subsequently spreading eastwards over our Islands; latter system moving eastwards and partially filling up.

### EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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

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

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

“ Weekly “ “ “ £1 10 0 “



# DAILY WEATHER REPORT.

for *Thursday, 22<sup>nd</sup> October, 1891.*  
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 3.)	SHADE TEMP.			
	Reading at 32° F. and Sea Level.	Dry.	Direc.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)			Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.	Haparanda ...	30.15	24	S	4	0	30.18	+ 18	26	24	+ 7	S	4	bc	*	?	16	-
	Hernösand ...	29.98	33	N	2	S	29.92	+ 12	37	36	+ 5	EHE	1	0	*	?	27	0.20
	Stockholm ...	29.83	42	N	2	0	29.66	00	46	45	+ 6	SE	6	1	*	46	37	0.12
	Wisby ...	29.75	45	E	4	1	29.53	- 18	51	50	+ 4	SE	4	0	*	?	41	0.28
	Bodö ...	29.69	35	E	6	6	29.70	+ 13	36	32	+ 4	E	6	6	3	36	32	-
	Christiansund	29.48	46	ESE	3	6	29.31	- 20	49	44	+ 6	ESE	4	0	2	50	43	-
	Skudesnaes ...	29.36	53	SE	7	6	29.29	- 15	46	45	- 5	E	4	1	3	54	45	0.51
	Christiania Fjord (Færdier)	29.67	42	NE	5	0	29.38	- 27	47	46	+ 7	EHE	4	1	2	?	40	0.95
	Skagen (The Scaw)	29.46	48	ESE	7	1	29.31	- 28	53	53	+ 2	S	4	1	3	53	46	0.35
	Fanö ...	29.38	53	ESE	2	1	29.37	- 08	50	50	0	S	3	6	*	55	48	0.47
BRITISH ISLANDS.	Sumburgh Head	29.11	49	SE	4	1	29.09	- 11	49	48	0	SE	1	0	6	51	40	0.38
	Stornoway ...	28.90	48	S	3	0	28.96	- 02	51	50	+ 2	S	4	bc	4	52	47	-
	Wick ...	29.06	49	SE	4	0	29.06	- 04	48	47	- 3	S	2	6	1	51	46	0.08
	Nairn ...	28.96	45	E	1	bc	28.99	- 03	44	42	- 4	Z	0	6	1	55	39	-
	Aberdeen ...	29.05	49	S	3	6	29.06	- 04	46	45	- 4	WNW	2	bcw	4	52	45	0.10
	Leith ...	29.02	50	SE	2	6	29.04	- 01	46	45	0	S	1	cm	*	57	42	0.01
	Shields ...	29.10	50	S	3	6	29.07	- 02	45	44	- 4	S	3	or	2	54	43	0.02
	Spurn Head ...	29.18	52	SSW	3	bc	29.09	- 13	48	47	- 4	SSE	4	1	3	57	47	0.16
	York ...	29.13	51	SE	1	6	?	?	45	44	- 4	SE	1	0	*	56	41	0.01
	Loughborough	29.15	51	S	5	0	29.08	- 05	46	45	- 4	SE	1	gmt	*	60	41	0.17
GERMANY & HOLLAND.	Ardrossan ...	28.93	52	E	5	c	29.00	+ 06	48	48	- 1	E	3	c	2	56	45	0.02
	Malin Head ...	28.76	49	S	5	bc	28.92	+ 11	44	43	- 1	S	4	6	1	52	43	-
	Mullaghmore ...	28.75	49	S	4	bc	28.98	+ 26	46	44	- 1	S	4	bc	3	50	44	0.14
	Belmullet ...	28.68	48	WSW	5	6	28.88	+ 32	48	46	+ 3	WSW	2	6	*	49	43	0.35
	Donaghadee ...	28.89	51	SW	5	c	29.00	+ 08	38	37	- 10	N	4	6	2	55	33	0.02
	Liverpool (Bidston)	29.08	49	SSE	2	c	29.07	+ 03	44	43	- 3	SE	2	1	3	55	43	0.04
	Holyhead ...	29.02	48	S	4	cp	29.02	+ 04	47	46	- 3	SSE	1	cp	2	55	45	0.76
	Parsonstown ...	28.87	46	Z	0	6	28.99	+ 18	39	38	- 5	Z	0	6	*	53	38	0.13
	Valencia ...	28.90	51	WSW	4	bc	29.01	+ 22	47	46	- 4	WSW	1	bp	2	54	42	0.10
	Roche's Point...	28.95	50	SW	4	bc	29.02	+ 17	44	43	- 7	N	1	6	4	54	40	0.20
FRANCE AND BELGIUM.	Pembroke (St. Ann's tid.)	29.03	53	SSW	4	c	29.04	+ 04	51	49	- 2	WSW	3	cq	4	55	47	0.36
	Scilly ...	29.08	48	WSW	5	cp	29.05	- 03	50	49	- 3	SW	4	c	5	55	46	0.35
	Prawle Point ...	29.18	50	SW	5	c	29.11	- 01	48	48	- 4	WNW	1	1	3	55	46	0.42
	Jersey (St. Aubin's)	29.29	55	SW	4	c	29.13	- 16	58	56	+ 3	S	8	1	7	61	50	1.53
	Hurst Castle ...	29.24	52	SW	6	1	29.11	- 12	50	50	- 2	N	3	oim	3	58	49	1.22
	Dungeness ...	29.29	56	SW	5	c	29.17	- 10	56	54	- 1	SSW	10	1	6	59	55	0.22
	London ...	29.27	52	SW	4	oqp	29.13	- 09	52	51	- 2	SW	2	1	*	60	48	0.40
	Oxford ...	29.22	48	SSW	3	0	29.11	- 07	48	48	- 3	SSE	1	1	*	57	46	0.67
	Cambridge ...	29.24	51	S	2	c	29.13	- 08	50	50	- 3	S	1	1	*	60	45	0.33
	Yarmouth ...	29.27	54	SSW	4	bc	29.15	- 13	54	53	0	S	6	qru	6	57	48	0.55
PENINSULA.	Cuxhaven ...	29.45	54	S	3	c	29.47	- 02	53	52	0	S	3	6	*	58	51	0.12
	Berlin ...	29.52	58	SE	2	6	29.61	+ 02	55	54	+ 2	N	3	0	*	66	52	0.04
	Wiesbaden ...	*	*	*	*	*	29.70	+ 14	53	51	- 4	SW	2	c	*	61	48	0.63
	Munich ...	29.53	58	SE	1	0	29.81	+ 16	50	49	- 1	S	4	0	*	68	48	0.04
	The Helder ...	29.39	53	SSW	1	1	29.38	- 01	50	49	- 1	S	3	0	3	57	48	0.12
	Brussels (9 a.m.)	*	*	*	*	*	29.47	+ 05	51	49	- 4	SSE	5	0	*	60	48	0.04
	Cape Gris Nez	29.32	54	SW	4	bc	29.25	- 09	53	51	+ 2	S	6	1	6	57	50	0.04
	Paris ...	29.50	54	SW	2	bc	29.55	+ 10	51	48	- 3	SSE	4	0	*	?	47	-
	Brest ...	?	55	WSW	8	0	?	?	51	51	- 3	WNW	2	1	6	59	50	0.79
	Lorient ...	29.34	55	SW	6	0	29.19	- 13	57	56	+ 1	SSW	8	1	8	59	55	0.39
FRANCE AND BELGIUM.	Rochefort ...	29.52	57	N	6	1	29.49	+ 03	57	54	0	SSE	6	c	*	63	50	0.12
	Belfort ...	?	54	N	3	c	?	?	46	?	- 2	N	3	1	*	63	39	0.20
	Lyons ...	29.64	51	SSW	2	0	29.77	+ 25	45	44	- 14	SSE	1	6	*	62	43	0.98
	Nice ...	29.60	58	Z	0	1	29.65	- 07	58	51	- 5	N	2	6	3	64	52	1.62
	Perpignan ...	29.67	59	NW	3	1	29.73	+ 22	48	47	- 12	N	2	6	*	74	45	0.04
	Biarritz ...	29.62	62	S	1	6	29.59	+ 10	64	53	+ 1	SSW	5	6	5	68	55	-

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

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



# WEATHER CHARTS

for 8 a.m. on Thursday, 22<sup>nd</sup> Oct., 1891.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP

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

Changes since previous morning are stated in words.

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

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

**SEA DISTURBANCE**—Where considerable, is shown thus:

≡ = Rough, ≡ = High.

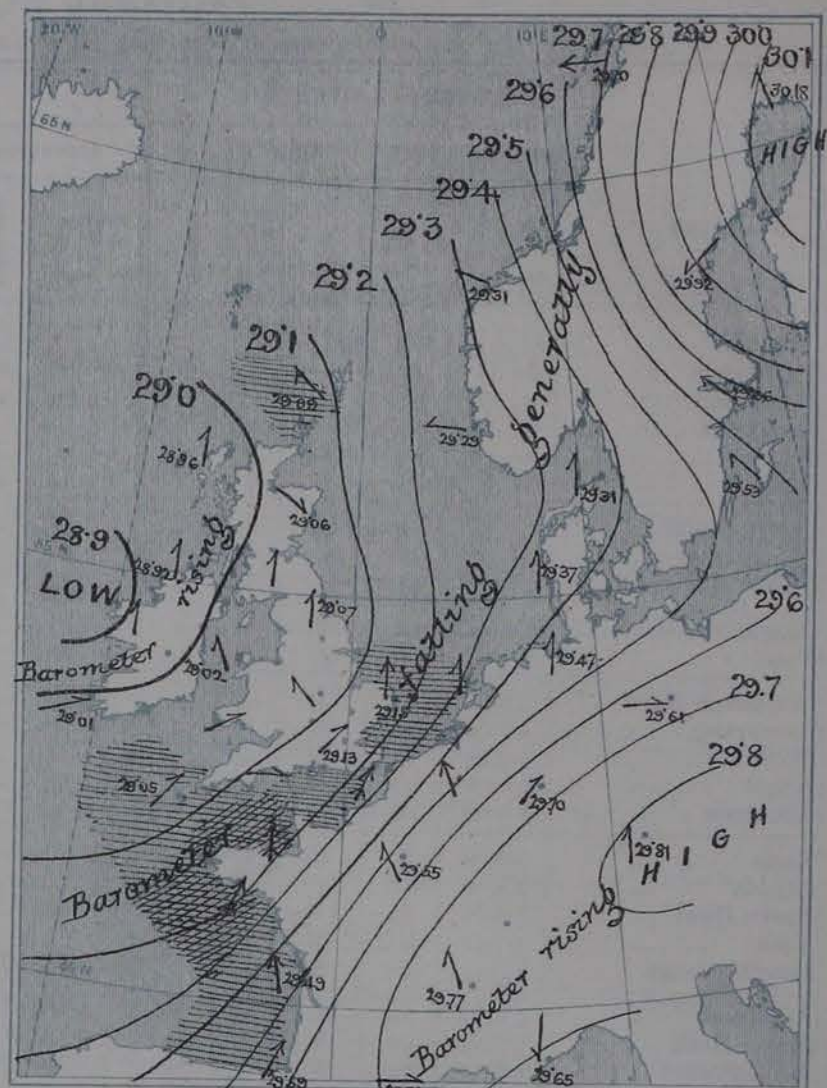
### MEAN HEIGHT OF THE BAROMETER

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

#### STATIONS.

#### MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.726
Stornoway	29.756
Wick	29.763
Nairn	29.779
Aberdeen	29.793
Leith	29.822
Shielda	29.846
Spurn Head	29.867
York	29.882
Loughborough	29.904
Ardrossan	29.931
Mullaghnore	29.945
Donaghadee	29.950
Holyhead	29.972
Liverpool	29.979
Parsonstown	29.997
Valencia	29.996
Roche's Point	29.992
Pembroke	29.988
Seilly	29.910
Prawle Point	29.931
Jersey	29.925
Hurst Castle	29.922
Dover	29.916
LONDON	29.923
Oxford	29.924
Cambridge	29.912
Yarmouth	29.894



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

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

**WEATHER**—is shown by letters of the Beaufort Scale.

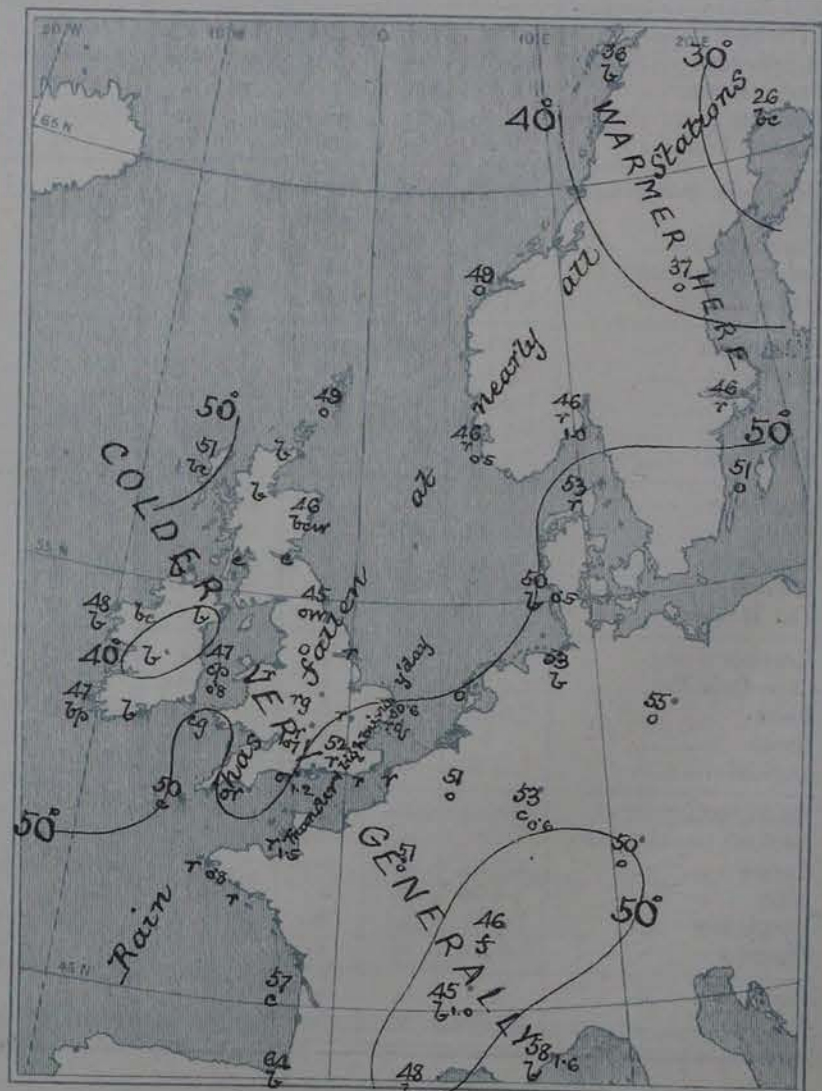
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of October.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily	Daily	at 8 a.m.		
	Max.	Min.	Dry.	Wet.	
Sumburgh Head.....	40.8	41.6	46.0	44.3	4.27
Stornoway.....	51.0	40.5	45.6	44.5	5.04
Wick.....	51.7	40.5	40.3	44.6	3.02
Nairn.....	51.9	40.8	41.8	42.9	2.38
Aberdeen.....	52.5	41.4	45.6	43.6	2.87
Leith.....	54.7	41.8	46.7	44.9	1.97
Shielda.....	53.2	42.7	47.2	45.4	2.48
Spurn Head.....	53.3	45.7	48.8	47.3	2.27
York.....	54.5	41.4	45.9	44.5	2.60
Loughborough.....	53.7	41.1	45.9	44.6	2.80
Ardrossan.....	53.7	43.7	47.8	45.8	3.87
Mullaghnore.....	54.2	45.7	49.1	46.9	4.75
Donaghadee.....	53.6	43.6	47.8	46.6	3.14
Holyhead.....	54.7	47.3	50.3	48.3	4.31
Liverpool.....	53.8	44.7	47.8	45.8	3.46
Parsonstown.....	54.8	41.0	46.2	44.5	3.16
Valencia.....	56.6	46.8	51.4	49.2	5.88
Roche's Point.....	56.0	46.1	50.2	48.3	4.09
Pembroke.....	54.9	48.0	51.2	49.2	3.96
Seilly.....	56.6	50.2	53.7	51.6	3.70
Prawle Point.....	56.7	46.2	51.2	49.6	3.60
Jersey.....	58.2	48.6	53.3	50.7	4.45
Hurst Castle.....	57.1	45.8	50.8	49.2	3.28
Dover.....	56.1	46.2	50.2	48.2	3.22
LONDON.....	56.7	42.7	47.5	45.9	2.57
Oxford.....	55.5	42.2	46.2	44.9	2.56
Cambridge.....	56.6	41.0	46.4	45.3	2.27
Yarmouth.....	54.3	44.6	49.0	47.6	2.92

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest 30.1 ins. and more to 29.6 ins. over Finland, the Gulf of Bothnia and Sweden; 29.8 ins. and more to 29.6 ins. over Germany and the southeastern half of France.

Lowest 28.9 ins. and less off the west of Ireland; 29.2 ins. and less over the southeast of England.

Gradients slight over the greater part of our Islands, but steep over the west and north of France and the eastern half of the Channel.

Barometer rising steadily in Ireland, and also in Sweden, falling over the south and east of England.

## TEMPERATURE

Highest 64° at Lisbon and Biarritz, 58° at Jersey and Nice, 56° at Dungeness, 55° at Berlin, 53° at the Scaw, and 52° in London.

Lowest (1) 26° at Haparanda, 36° at Bodö, 37° at Hemösand; (2) 38° at Donaghadee, 39° at Parsonstown, 44° at Naím; (3) 45° at Lyons 46° at Belfort, and 48° at Perpignan.

It had fallen decidedly over the western and northern parts of our Islands during the night.

## WIND

SE<sup>4</sup> to E<sup>4</sup>, strong to moderate, over Scandinavia, S<sup>3</sup> over France, the Netherlands and English Channel. blowing a gale on the French coasts and in the Straits of Dover. Over our Islands, as a whole, the wind had fallen light and varied greatly in direction.

## WEATHER

Much finer than of late over the western and northern parts of our Islands, but was very rainy in the south and southeast of England and the north of France. The appearance generally had improved, but was not settled. The rainfall measured was 1.5 ins. at Jersey, 1.2 ins. at Hurst Castle, 0.8 ins. at Brest, 0.7 in London.

## SEA

Very rough in the Channel rough at Sumburgh Head.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The deep depression which lay off the west of Ireland yesterday is spreading out in an easterly and southeasterly direction, but is at the same time filling up decidedly. Steep gradients have been caused, for a time, over France, the Channel and extreme southeast of England, but those in the west and north have decreased, and are now slight. Temperature has decreased somewhat, and although much rain is falling in the southeast, the weather in Ireland and Scotland has cleared up. The gales in the S. and SE. are likely to die down and although the conditions are not at all settled some improvement is likely to take place generally, with a fall of temperature generally.

## FORECASTS

For the 24 hours ending at NOON on 23<sup>rd</sup> OCTOBER 1891.

### DISTRICTS.

### FORECASTS.

0 SCOTLAND NORTH

1 SCOTLAND EAST

2 ENGLAND N.E.

3 ENGLAND EAST

4 MIDLAND COUNTIES

5 ENGLAND SOUTH

Very variable winds, changeable, some showers, colder.

Same as No. 5.

Same as No. 0 to 2.

Wind falling light, weather improving, but becoming colder.

### DISTRICTS.

### FORECASTS.

6 SCOTLAND WEST

7 ENGLAND N.W.

8 ENGLAND S.W.

9 IRELAND NORTH

10 IRELAND SOUTH

S<sup>3</sup>, W<sup>3</sup>, and variable winds, light to moderate, colder, not settled.

### WARNINGS

Signals have all been lowered this morning.

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

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



# YESTERDAY'S 2 P.M. REPORTS.

THER: WIND								THER: WIND							
BAR:		D.	W.	D.	F.	WEA.	SEA	BAR:		D.	W.	D.	F.	WEA.	SEA
Skudesnaes ...	29.39	53	48	SE	8	0	5	Holyhead ...	28.98	53	49	SSW	5	bc pg	5
Sumburgh Head	29.13	50	50	SE	4	0	5	Valencia ...	28.84	54	51	WSW	5	bc p	5
Stornoway ...	28.90	51	51	SE	3	0	3	Scilly ...	29.08	55	51	SSW	5	c p	5
Aberdeen ...	29.02	51	49	S	5	0 q p	6	Jersey ...	29.30	57	53	S	4	c	4
Shields ...	29.06	55	50	S	3	bc	2	Dungeness ...	29.27	58	55	SW	5	c	4
Ardrossan ...	28.92	53	52	E	4	c	4	London ...	29.24	59	53	SW	4	bc	*
Malin Head ...	28.85	52	48	SSW	5	bc	2	Yarmouth ...	29.25	57	53	SSW	4	c	4
Mullaghmore ...	28.72	48	46	SSW	5	p	3	Rochefort ...	29.50	61	58	WNW	4	c	*
Belmullet ...	28.62	48	46	SSW	7	o p	*								

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

Weather still changeable and showery over the greater part of our Islands cloudy at most of the Continental stations with rain and fog at some of the French and German stations and snow in many parts of Finland and Scandinavia. Fine over eastern Germany and the south of Italy, as well as in Algeria. Rain falling during day in nearly all parts of western Europe, - heavily in France and the south of England, with thunder and lightning in places.

Temperature highest 71° at Malta, 69° at Palermo, 68° at Algiers, and 66° at Lesina; above 60° in most parts of southern Europe and above 55° on the southeast coasts of England. Lowest 8° at Archangel, 17° at Uleaborg, 18° at Kuopio, and 19° at Haparanda, below the freezing point over the northern parts of Russia and Scandinavia generally. Rising during day to about 60° over the central and southern parts of England and to 65° or more over Germany and the southern parts of France.

Wind strong from the S<sup>W</sup> or S<sup>W</sup> in the west and south of our Islands, moderate from the same quarters over the Bay of Biscay and the western parts of the Iberian Peninsula. SE<sup>2</sup> over the northern parts of our Islands as well as over the North Sea, Norway, Denmark, Germany and Italy; strong in force in many places, with a gale in the north of Ireland. E<sup>2</sup> over the northern parts of Russia and Scandinavia; variable over the south of Russia, and also in Algeria. No important change occurring during day.

Barometer highest (1) 30.1 ins. and upwards over Asia Minor; (2) 29.9 ins. to 30.0 ins. over Lapland; (3) 29.9 ins. and upwards over the southern parts of the Iberian Peninsula. Lowest 28.6 ins. and less in a deep depression lying off the west of Ireland; 29.6 ins. and less in a shallow system lying over the Baltic Provinces. Depression in west subsequently moving slowly northwards and barometer rising in the west and south of our Islands.

### EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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

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„ Weekly „ „ „ £1 10 0 „



# DAILY WEATHER REPORT.

for Friday, 23<sup>rd</sup> October, 1891.  
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		Barom.  Reading at 32° F. and Sea Level.	Temp.  Dry.	Wind.  Direc. Force. (0 to 12.)		Weather.	Barometer.  Reading at 32° F. and Sea Level. Difference from 8 a.m. yesterday.		Shade Temp.  Dry. Wet. Difference from 8 a.m. yesterday.			Wind.  Direc. Force. (0 to 12.)		Weather.	Sea. (0 to 1.)	Shade Temp.  Max. Min. Amount of Rainfall.			
SCANDINAVIA.	Haparanda ...																		
	Hernösand ...	29.57	46	E	8	S		29.16	- .76	47	47	+ 10	E	8	0	*	47	30	1.46
	Stockholm ...	29.52	50	S	2	0		29.43	- .23	51	50	+ 5	S	4	0	*	54	41	0.83
	Wisby ...	29.61	51	SSW	4	6		29.60	+ .07	54	52	+ 3	SSW	7	0	*	54	43	0.16
	Bodö ...	29.57	36	E	7	6		29.20	- .50	37	33	+ 1	E	7	6	4	39	32	-
	Christiansund	29.16	46	SW	2	60		29.14	- .17	46	45	- 3	SW	5	7	3	50	43	0.24
	Skudesnaes ...	29.43	45	NW	6	7		29.32	+ .03	51	48	+ 5	SSW	4	0	4	52	45	0.75
	Christiania Fjord (Fæder)	29.20	53	SSE	6	7		29.35	- .03	51	48	+ 4	MSW	5	0	4	?	47	1.06
	Skagen (The Seaw)	29.19	55	SW	8	7		29.39	+ .08	51	50	- 2	SW	3	7	1	55	50	0.28
	Fanö ...	29.33	57	S	7	0		29.43	+ .06	56	54	+ 6	S	6	0	*	57	50	0.12
BRITISH ISLANDS.	Sumburgh Head	29.03	45	Z	0	C		29.20	+ .11	44	44	- 5	Z	0	6	3	51	39	0.02
	Stornoway ...	29.07	49	SW	2	60		29.24	+ .28	42	41	- 9	SW	2	6W	3	54	36	-
	Wick ...	29.08	44	NW	1	6		29.25	+ .19	38	37	- 10	NW	2	6	1	56	38	-
	Nairn ...	29.07	41	Z	0	6		29.26	+ .27	39	38	- 5	SW	1	6	1	55	33	-
	Aberdeen ...	29.09	44	S	1	6		29.30	+ .24	39	38	- 7	WNW	2	cmw	4	53	35	-
	Leith ...	29.13	48	S	1	6		29.29	+ .25	39	39	- 7	MSW	1	m	*	52	35	0.01
	Shields ...	29.18	49	Z	0	0		29.26	+ .19	46	45	+ 1	SW	1	f	2	52	43	-
	Spurn Head ...	29.22	50	S	2	0		29.20	+ .11	48	47	0	NNE	4	6	3	52	47	0.43
	York ...	29.16	49	S	1	0		29.27	?	46	46	+ 1	N	1	7	*	51	44	0.23
	Loughborough	29.19	49	SE	1	7		29.23	+ .15	45	44	- 1	NW	2	ogm	*	54	45	0.86
BRITISH ISLANDS.	Ardrossan ...	29.11	51	S	2	C		29.30	+ .30	42	42	- 6	Z	0	bmr	0	56	39	-
	Malin Head ...	29.05	47	S	3	6		29.27	+ .35	43	42	- 1	S	2	6	1	52	42	-
	Mullaghmore ...	29.04	49	S	4	60		29.29	+ .31	44	43	- 2	NE	2	C	2	53	42	-
	Belmullet ...	29.08	50	MSW	2	6		29.29	+ .41	48	48	0	N	2	0	*	52	43	0.04
	Donaghadee ...	29.10	45	SW	2	6		29.29	+ .29	48	46	+ 10	E	3	C	1	55	35	-
	Liverpool (Bidston)	29.17	50	S	1	0		29.31	+ .24	45	44	+ 1	SSE	1	r	2	53	44	0.13
	Holyhead ...	29.14	50	SW	1	C		29.28	+ .26	48	47	+ 1	SW	2	gmr	2	54	46	0.20
	Parsonstown ...	29.10	46	Z	0	60		29.27	+ .28	40	39	+ 1	Z	0	60	*	54	37	-
	Valencia ...	29.14	47	MSW	2	60		29.29	+ .28	51	49	+ 4	NW	5	c q p	4	55	44	0.11
	Roche's Point...	29.13	52	MSW	2	6		29.25	+ .23	47	45	+ 3	W	1	C	5	54	44	-
BRITISH ISLANDS.	Pembroke (St. Ann's Hd.)	29.15	52	SW	2	C		29.32	+ .28	51	50	0	MSW	4	bcp	4	55	47	0.27
	Scilly ...	29.15	48	SSE	2	7		29.39	+ .34	52	50	+ 2	W	4	bcp	4	54	45	0.17
	Prawle Point ...	29.16	46	E	3	7		29.43	+ .32	50	49	+ 2	SW	4	bc	3	51	44	0.75
	Jersey (St. Aubin's)	29.25	64	E	7	0		29.48	+ .35	54	49	- 4	WNW	5	cgm	5	64	50	0.56
	Hurst Castle ...	29.20	52	EHE	2	7		29.39	+ .28	49	49	- 1	W	6	bc	3	61	49	0.79
	Dungeness ...	29.25	61	SSW	7	C		29.34	+ .17	59	57	+ 3	SSW	6	C	4	62	49	0.02
	London ...	29.25	50	SW	1	07m		29.29	+ .16	59	57	+ 7	SW	4	C	*	61	48	0.51
	Oxford ...	29.23	45	SW	1	7		29.31	+ .20	46	45	- 2	W	3	0	*	56	45	0.80
	Cambridge ...	29.22	50	S	2	7		29.24	+ .11	58	56	+ 8	S	3	0	*	58	46	0.78
	Yarmouth ...	29.24	51	Z	0	07m		29.28	+ .13	57	55	+ 3	S	5	Cg	5	57	49	0.60
GERMANY & HOLLAND.	Cuxhaven ...	29.45	54	S	6	60		29.54	+ .07	54	53	+ 1	S	3	C	*	58	52	-
	Berlin ...	29.74	53	S	2	6		29.76	+ .15	48	46	- 7	SSE	2	6	*	63	46	-
	Wiesbaden ...	*	*	*	*	*		29.74	+ .04	48	47	- 5	Z	0	60	*	59	46	-
	Munich ...	29.86	48	SE	3	6		29.82	+ .01	42	41	- 8	S	1	7	*	59	37	-
	The Helder ...	29.35	59	SSW	7	C		29.44	+ .06	55	52	+ 5	S	2	C	3	61	50	0.04
FRANCE AND BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*		29.52	+ .05	55	50	+ 4	SSE	5	C	*	62	51	-
	Cape Gris Nez	29.28	59	S	6	60		29.34	+ .09	57	54	+ 4	S	5	C	5	61	52	-
	Paris ...	29.56	61	SE	2	0		29.56	+ .01	55	50	+ 4	S	4	60	*	64	51	-
	Brest ...	?	61	SW	6	7		?	?	52	50	+ 1	W	4	0	5	63	48	0.75
	Lorient ...	29.29	62	S	6	0		29.52	+ .33	53	49	- 4	WNW	4	0	5	64	52	0.04
	Rochefort ...	29.50	65	S	6	0		29.64	+ .05	59	57	+ 2	W	5	0	*	66	55	-
FRANCE AND BELGIUM.	Belfort ...	?	55	N	3	C		?	?	38	34	- 8	N	2	C	*	66	36	-
	Lyons ...	29.72	55	SE	1	6		29.74	- .03	60	53	+ 15	S	3	60	*	63	45	-
	Nice ...	29.83	59	SE	1	6		29.93	+ .25	53	51	- 5	EHE	4	C	3	64	50	-
	Perpignan ...	29.73	55	NE	1	6		29.75	+ .02	48	48	0	W	1	6	*	67	46	-
	Biarritz ...	29.56	68	SSW	5	C		29.65	+ .06	62	58	- 2	NW	3	60	3	72	61	-
PENINSULA.	Corunna ...	*	*	*	*	*		*	*	*	*	*	*	*	*	*	*	*	*
	Lisbon ...	29.61	56	SSE	3	60		29.65	+ .04	56	52	- 8	N	3	60	?	68	54	1.46

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 Friday, 23<sup>rd</sup> Oct., 1891.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP

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

Changes since previous morning are stated in words.

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

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

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

○ = dead calm.

**SEA DISTURBANCE**—Where considerable, is shown thus:

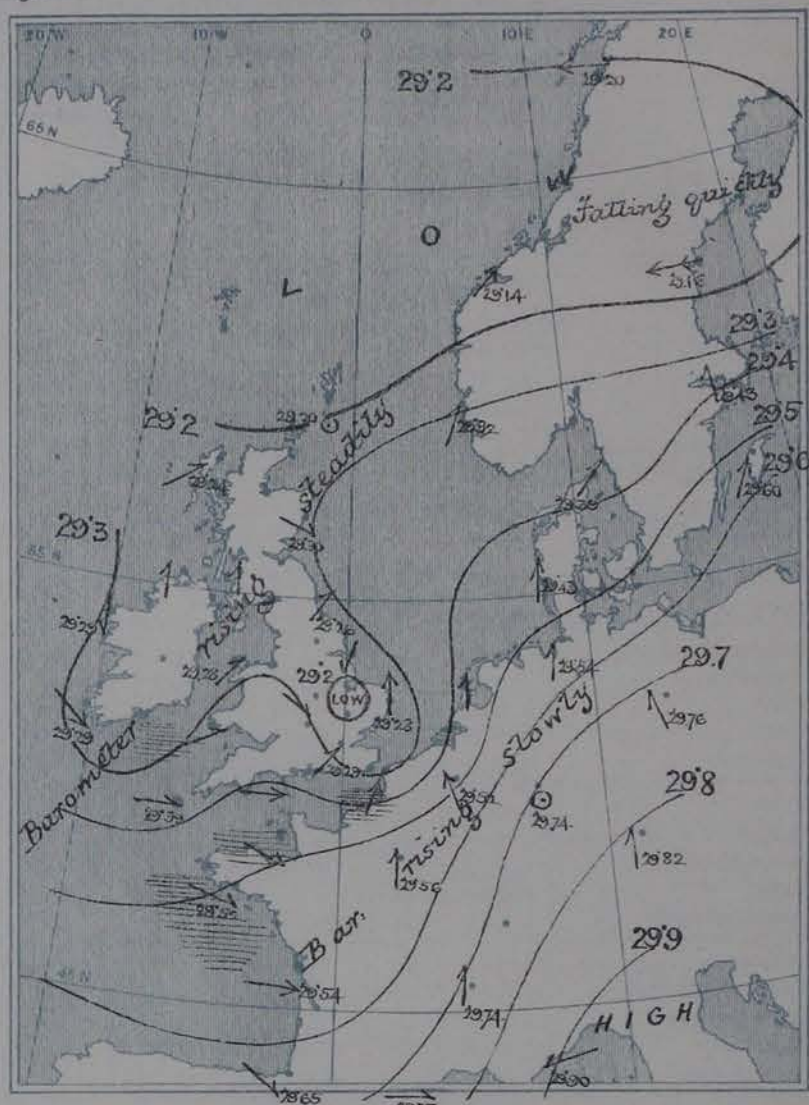
— Rough. — High.

## MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of October

During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.726
Stornoway	29.766
Wick	29.763
Nairn	29.779
Aberdeen	29.793
Leith	29.822
Shields	29.846
Spurn Head	29.867
York	29.882
Loughborough	29.904
Ardrossan	29.831
Mullaghmore	29.845
Donaghadee	29.850
Holyhead	29.872
Liverpool	29.879
Parsonstown	29.897
Valencia	29.890
Roche's Point	29.892
Pembroke	29.888
Scilly	29.910
Prawle Point	29.931
Jersey	29.926
Hurst Castle	29.922
Dover	29.916
LONDON	29.923
Oxford	29.924
Cambridge	29.912
Yarmouth	29.891



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

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

**WEATHER**—is shown by Letters of the Beaufort Scale.

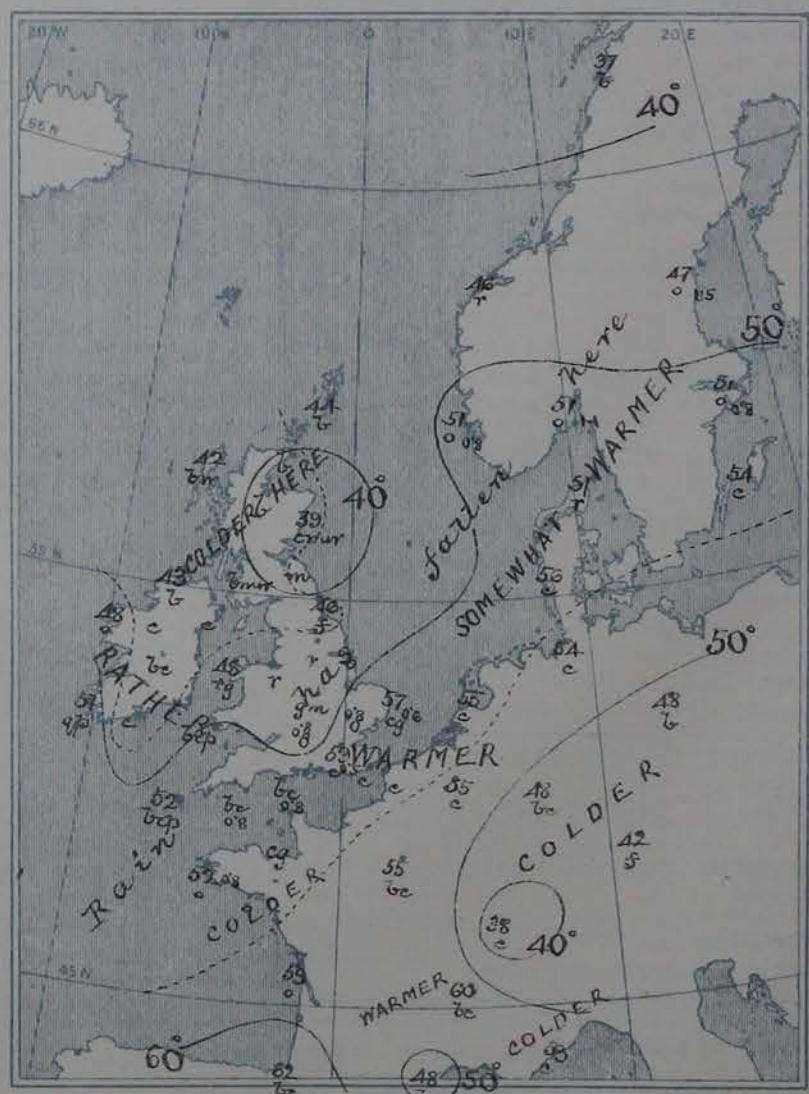
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of October.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Dry. at 8 a.m.	Wet.	
Sumburgh Head	49.8	41.6	46.0	44.3	1.27
Stornoway	51.0	40.5	45.5	44.5	5.04
Wick	51.7	40.5	46.3	44.0	3.02
Nairn	51.9	40.8	44.8	42.9	2.38
Aberdeen	52.5	41.4	45.6	43.6	2.87
Leith	54.7	41.8	46.7	44.9	1.97
Shields	53.2	42.7	47.2	45.4	2.48
Spurn Head	53.3	45.7	48.8	47.3	2.27
York	54.5	41.4	45.0	44.5	2.60
Loughborough	55.7	41.1	45.9	44.6	2.80
Ardrossan	53.7	43.7	47.8	45.8	3.87
Mullaghmore	54.2	45.7	49.1	46.9	4.75
Donaghadee	53.6	43.6	47.8	46.6	3.14
Holyhead	54.7	47.3	50.3	48.3	4.31
Liverpool	53.8	44.7	47.8	45.8	3.46
Parsonstown	54.8	41.0	46.2	44.5	3.16
Valencia	56.6	46.8	51.4	49.2	5.88
Roche's Point	56.0	46.1	50.2	48.3	4.09
Pembroke	54.9	48.0	51.2	49.2	3.96
Scilly	56.6	50.2	53.7	51.6	3.70
Prawle Point	56.7	46.2	51.2	49.6	3.60
Jersey	58.2	48.6	53.3	50.7	4.45
Hurst Castle	57.1	45.8	50.8	49.2	3.28
Dover	56.1	46.2	50.2	48.2	3.22
LONDON	56.7	42.7	47.5	45.9	2.57
Oxford	55.5	42.2	46.2	44.9	2.56
Cambridge	56.5	41.0	46.4	45.3	2.27
Yarmouth	54.3	44.6	49.0	47.6	2.92

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest 29.9 ins. to 29.7 ins. over the southeastern parts of France, Switzerland and Germany.  
 Lowest (1) 29.2 ins. and less off the northern half of Scandinavia and to the northward of Lumburg Head; (2) 29.2 ins. and less in a small depression over Lincolnshire; (3) 29.3 ins. and less over central Ireland.  
 Gradients moderate to slight and very irregular.  
 Barometer rising except in the north of Scandinavia.

## TEMPERATURE

Highest 62° at Biarritz, 60° at Lyons, 59° at Rochefort, Dungeness and in London.  
 Lowest (1) 37° at Bodø; (2) 38° at Wick, 39° at Hain and Aberdeen, 40° at Parsonstown; (3) 38° at Belfast, 42° at Munich, 48° at Wiesbaden and Berlin.  
 The changes over England since yesterday have been very fitful and irregular.

## WIND

Blowing a gale from E<sup>nd</sup> over the northern parts of Scandinavia; moderate to strong from S<sup>nd</sup> on the eastern shores of the North Sea, at the mouth of the Thames and in the Straits of Dover; W<sup>2</sup> over the Channel and Bay of Biscay; NW<sup>2</sup> in the west of Ireland; very variable over Scotland, the Irish Sea and England.

## WEATHER

Still fine in Scotland, very changeable elsewhere. Large quantities of rain have fallen over the Channel and the south and east of England, the south of Norway, and in Sweden. The general appearance is improving.

## SEA

Continues rough at the southern and southwestern stations.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The barometer appears to be now rising decidedly, though somewhat unsteady, over the whole of the British Islands, but has fallen fast over the north of Scandinavia. The distribution of pressure this morning is very irregular, but the shallow low pressure area found over Ireland appears to be filling up while that over the east of England is moving northwards. The general appearance is improving.

## FORECASTS

For the 24 hours ending at NOON on 24<sup>TH</sup> OCTOBER 1891.

### DISTRICTS.

### FORECASTS.

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

Very light and variable winds,  
 some showers, unsettled.  
 SW<sup>2</sup> and NW<sup>2</sup> winds, colder, some rain.

### DISTRICTS.

### FORECASTS.

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

NW<sup>2</sup> and varying winds, cold.  
 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 ...	24.14	52	49	SE	6	T	4		Holyhead ...	29.08	53	49	SW	2	C
Sumburgh Head ...	29.05	50	48	SE	1	O	5		Valencia ...	29.07	53	49	W	3	bcy
Stornoway ...	29.03	54	52	SW	2	6	3		Scilly ...	29.11	52	51	S	4	O
Aberdeen ...	29.04	53	48	S	2	6	4		Jersey ...	29.21	62	59	SSW	7	opm
Shields ...	29.09	52	48	SW	1	C	2		Dungeness ...	29.19	61	59	SSW	9	og
Ardrossan ...	29.03	52	51	E	2	C	2		London ...	29.19	52	51	SW	2	ogmt
Malin Head ...	28.98	51	47	S	3	6	1		Yarmouth ...	29.18	52	51	WSW	2	ST
Mullaghmore ...	28.98	52	48	SSE	4	6c	2		Rochefort ...	29.51	64	60	ESE	6	O
Belmullet ...	28.96	52	48	SW	2	C	*								*

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

Weather rainy over the greater part of England and the north of France, as well as over Denmark, the south of Scandinavia and the northern parts of the Adriatic. Fine and bright at most of the Irish and Scotch stations, as well as in many parts of Russia, Spain and the south of France, but dull in Italy. Large quantities of rain falling during day over England and the south of Scandinavia and heavy snow at Hernösand.

Temperature highest 70° at Tunis and Malta, 69° at Cagliari and Algiers, and 68° at Brindisi and Palermo, above 60° in most parts of southern Europe and above 55° at some of the Channel stations. Lowest 14° at Archangel and Uleaborg, 17° at Moscow, 21° at Kuopio and St. Petersburg, and 26° at Haparanda, below the freezing point over a considerable part of Russia; below 40° at some of the Irish stations. Rising later to between 60° and 64° in the extreme south and southeast of England, but remaining below 55° at most of our western and northern stations.

Wind strong to a gale from the south over the Channel and Bay of Biscay and light or moderate from the same quarter over Denmark, the Netherlands and the northern parts of the United Kingdom. Moderate to strong from the E. and SE. over Scandinavia, Finland and the northern parts of the Baltic. Light from the S. over the south of Russia and from the SE. in Italy, but variable over central Russia. Subsequently shifting to the E. at some of the Channel stations.

Barometer highest 30.1 ins. to 30.2 ins. or a little more in a large anticyclone lying over central and northern Russia, 29.9 ins. and upwards over Algeria and the south of Spain. Lowest 28.9 ins. and less in a depression lying off the northwest of Ireland. Several small secondary disturbances, <sup>passing</sup> over England and the North Sea during day but main depression slowly filling up.

### EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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

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

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„ Weekly „ „ „ £1 10 0 „



# DAILY WEATHER REPORT.

for *Saturday, 24<sup>th</sup> October, 1891.*  
 Issued by the Meteorological Office, 63, Victoria Street, London. *R. H. SCOTT, Secretary.*

STATIONS.		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 12.)	SHADE TEMP.		Amount of Rainfall.	
		Reading at 32° F. and Sea Level.	Dry.	Direc.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...																		
	Hernösand ...	29.41	40	Z	0	0	29.02	?	47	46	0	SW	2	r	*	52	32	0.47	
	Stockholm ...	29.47	52	S	2	0	29.36	- 07	51	46	0	SW	6	bc	*	59	46	-	
	Wisby ...	29.60	56	S	6	0	29.58	- 02	51	48	- 3	SW	6	bc	*	57	48	-	
	Bodö ...	29.23	37	E	2	0	29.16	- 04	40	36	+ 3	E	2	0	1	40	32	-	
	Christiansund	29.23	46	SW	2	0	29.35	+ 21	46	44	0	SSW	7	r	4	50	45	0.24	
	Skudesnaes ...	29.22	46	NW	2	r	29.62	+ 30	47	45	- 4	NW	1	r	3	52	45	0.55	
	Christiania Fjord (Færd)	29.24	55	S	4	r	29.49	+ 14	52	47	+ 1	NW	5	b	5	?	46	0.28	
	Skagen (The Seaw)	29.30	54	SSW	6	0	29.60	+ 21	51	48	0	NW	4	c	2	55	50	0.04	
	Fanö ...	29.49	53	NW	8	c	29.74	+ 31	52	50	- 4	N	2	c	*	57	50	-	
BRITISH ISLANDS.	Sumburgh Head	29.28	49	SSW	6	0	29.60	+ 40	42	41	- 2	NW	4	c	2	53	40	0.01	
	Stornoway ...	29.88	47	SW	2	0	29.64	+ 40	43	43	+ 1	NW	6	r	5	53	40	0.05	
	Wick ...	29.35	44	Z	0	0	29.59	+ 34	41	40	+ 3	NW	2	bc	1	55	38	-	
	Nairn ...	29.36	45	Z	0	0	29.61	+ 35	45	45	+ 6	SW	1	r	1	53	38	0.02	
	Aberdeen ...	29.41	43	SSW	1	bm	29.66	+ 36	38	37	- 1	N	1	cmw	2	51	33	-	
	Leith ...	29.41	47	SW	1	b	29.67	+ 38	43	43	+ 4	SW	1	bm	*	55	34	-	
	Shields ...	29.45	47	NW	2	b	29.70	+ 44	38	37	- 8	Z	0	bcf	2	51	36	0.06	
	Spurn Head ...	29.54	49	S	1	bc	29.70	+ 50	45	44	- 3	NW	1	cm	1	52	43	0.03	
	York ...	29.48	46	SSW	1	b	29.72	+ 45	37	37	- 9	Z	0	f	*	47	34	0.21	
	Loughborough	29.53	48	S	1	c	29.70	+ 47	44	44	- 1	NW	1	cm	*	56	39	0.11	
GERMANY & HOLLAND.	Ardrossan ...	29.45	48	N	1	c	29.70	+ 40	50	49	+ 8	NNE	2	b	1	?	41	-	
	Malin Head ...	29.46	49	NW	3	bcp	29.73	+ 46	46	43	+ 3	NW	3	bp	3	51	43	0.04	
	Mullaghmore ...	29.51	49	NW	4	cp	29.79	+ 50	46	42	+ 2	NW	3	op	2	50	43	0.02	
	Belmullet ...	29.50	48	NW	3	op	29.82	+ 53	44	42	- 4	NW	2	c	*	52	39	0.05	
	Donaghadee ...	29.48	46	NW	2	b	29.74	+ 45	43	40	- 5	NW	2	b	0	53	40	0.02	
	Liverpool (Bidston)	29.51	47	E	1	b	29.74	+ 43	46	45	+ 1	N	1	b	1	53	45	0.06	
	Holyhead ...	29.48	49	Z	0	bc	29.74	+ 46	50	48	+ 2	N	3	c	2	55	46	0.34	
	Parsonstown ...	29.52	48	Z	0	c	29.85	+ 58	35	34	- 5	Z	0	bc	*	53	34	-	
	Valencia ...	29.64	50	NW	4	cqp	29.96	+ 61	47	45	- 4	Z	0	b	1	53	44	0.14	
	Roche's Point...	29.53	50	NW	3	b	29.84	+ 59	43	41	- 4	NW	5	b	4	53	41	0.02	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.45	52	NW	3	r	29.77	+ 45	48	47	- 3	N	2	bc	3	54	47	0.09	
	Scilly ...	29.54	52	N	4	bcp	29.80	+ 41	52	50	0	N	4	bc	4	56	49	0.01	
	Prawle Point ...	29.58	53	NW	4	c	29.79	+ 36	47	46	- 3	NW	2	bc	2	56	44	0.04	
	Jersey (St. Aubin's)	29.66	55	SW	3	cqp	29.78	+ 30	52	50	- 2	NW	3	cm	3	59	49	0.17	
	Hurst Castle ...	29.61	51	NW	4	bcp	29.75	+ 36	48	48	- 1	NW	4	b	2	59	47	0.12	
	Dungeness ...	29.61	55	NW	4	c	29.72	+ 38	52	52	- 7	NW	1	0	2	60	50	-	
	London ...	29.62	50	NW	1	b	29.74	+ 45	48	47	- 11	SW	1	b	*	60	44	-	
	Oxford ...	29.61	47	SW	2	b	29.74	+ 43	45	45	- 1	SSW	1	0	*	55	44	-	
	Cambridge ...	29.58	47	S	1	b	29.74	+ 50	44	43	- 14	S	1	b	*	59	42	-	
	Yarmouth ...	29.57	51	SW	1	bc	29.71	+ 43	51	50	- 6	SW	1	bcm	2	58	48	0.01	
PENINSULA.	Cuxhaven ...	29.54	52	SSW	3	c	29.83	+ 29	49	48	- 5	SW	1	m	*	63	48	-	
	Berlin ...	29.73	54	SE	2	b	29.86	+ 10	50	49	+ 2	SSE	2	c	*	61	48	-	
	Wiesbaden ...	*	*	*	*	*	29.80	+ 06	48	47	0	Z	0	f	*	61	46	-	
	Munich ...	29.86	45	Z	0	g	29.91	+ 09	39	39	- 3	E	1	f	*	54	37	-	
	The Helder ...	29.67	54	NW	2	c	29.79	+ 35	49	48	- 6	S	1	c	1	61	48	-	
	Brussels (9 a.m.)	*	*	*	*	*	29.77	+ 25	49	48	- 6	NW	1	r	*	64	47	0.04	
	Cape Gris Nez	29.61	55	NW	4	bc	29.68	+ 34	50	49	- 7	S	3	c	3	59	50	-	
	Paris ...	29.71	53	ESE	2	c	29.76	+ 20	50	50	- 5	NW	2	r	*	66	49	0.08	
	Brest ...	?	55	N	3	c	?	?	50	49	- 2	N	2	c	5	61	50	-	
	Lorient ...	29.68	57	SW	2	0	29.80	+ 28	50	49	- 3	N	1	c	5	64	50	-	
FRANCE AND BELGIUM.	Rocheport ...	29.65	55	NW	1	r	29.71	+ 17	50	49	- 9	ESE	3	0	*	66	46	0.35	
	Belfort ...	?	55	N	3	c	?	?	55	50	+ 17	N	1	0	*	67	38	-	
	Lyons ...	29.76	60	S	1	b	29.77	+ 03	56	51	- 4	E	1	c	*	68	55	-	
	Nice ...	29.90	59	SE	1	c	29.88	- 02	52	50	- 1	NE	4	bc	2	68	50	-	
	Perpignan ...	29.66	65	SSW	3	b	29.72	- 03	64	63	+ 16	SE	2	0	*	75	48	-	
	Biarritz ...	29.67	60	N	1	r	29.74	+ 09	54	52	- 8	E	3	r	2	64	52	0.41	
PENINSULA.	Corunna ...	*	*	*	*	*	?	?	?	?	?	?	?	?	?	?	?	-	
	Lisbon ...	29.77	57	N	5	b	29.79	+ 14	55	50	- 1	NW	4	b	6	63	52	-	

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

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



# WEATHER CHARTS

for 8 a.m. on Saturday, 24<sup>th</sup> Oct: 1891.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP

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

Changes since previous morning are stated in words.

**WIND**—Arrows show the prevalent winds. They fly with the wind and

their barbs and feathers refer to force thus—

→ forces above 10; → forces 8 to 10;

→ forces 5 to 7; → forces 1 to 4.

☉ = dead calm.

**SEA DISTURBANCE**—Where considerable, is shown thus:

☼ = Rough. ☼ = High.

## MEAN HEIGHT OF THE BAROMETER

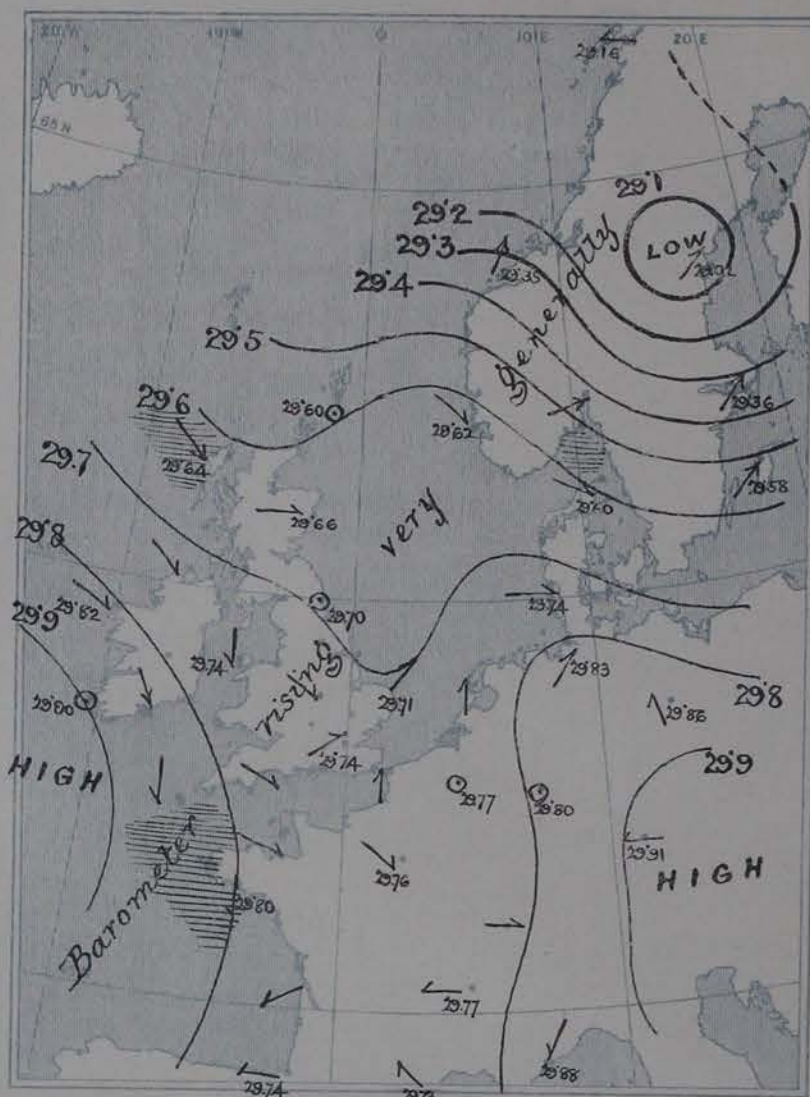
at 8.0 a.m. for the month of October

During the 20 Years: 1871—1890.

### STATIONS.

### MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.726
Sornoway	29.730
Wick	29.763
Nairn	29.770
Aberdeen	29.793
Leith	29.822
Shields	29.846
Spurn Head	29.867
York	29.882
Loughborough	29.904
Ardrossan	29.831
Mullaghmore	29.845
Donaghadee	29.850
Holyhead	29.872
Liverpool	29.879
Parsonstown	29.897
Valencia	29.898
Roche's Point	29.892
Pembroke	29.888
Seilly	29.910
Prawle Point	29.931
Jersey	29.925
Hurst Castle	29.922
Dover	29.916
LONDON	29.923
Oxford	29.924
Cambridge	29.912
Yarmouth	29.891



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

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

**WEATHER**—is shown by letters of the Beaufort Scale.

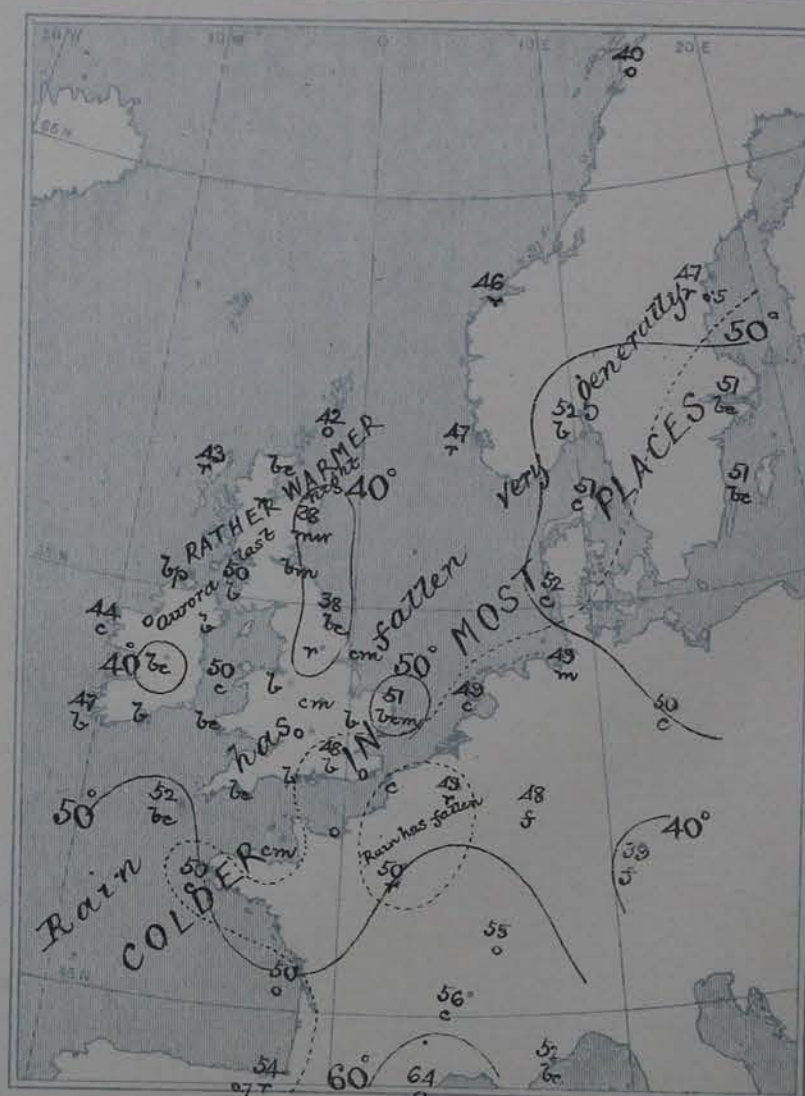
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of October.)

STATIONS.	TEMPERATURE.				RAINFALL (inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	49.8	41.6	40.0	44.3	4.27
Sornoway	51.0	40.5	45.6	44.5	5.04
Wick	51.7	40.5	40.3	44.0	3.02
Nairn	51.9	40.8	44.8	42.9	2.38
Aberdeen	52.5	41.4	45.6	43.0	2.87
Leith	54.7	41.8	46.7	44.9	1.97
Shields	53.2	42.7	47.2	45.4	2.48
Spurn Head	53.3	45.7	48.8	47.3	2.27
York	54.5	41.4	45.9	44.5	2.60
Loughborough	53.7	41.1	45.9	44.6	2.80
Ardrossan	53.7	43.7	47.8	45.8	3.87
Mullaghmore	54.2	45.7	49.1	48.9	4.75
Donaghadee	53.6	43.6	47.8	46.6	3.14
Holyhead	54.7	47.3	50.3	48.3	4.31
Liverpool	53.8	44.7	47.8	45.8	3.46
Parsonstown	54.8	41.0	46.2	44.5	3.16
Valencia	56.6	46.8	51.4	49.2	5.88
Roche's Point	56.0	46.1	50.2	48.3	4.09
Pembroke	54.9	48.0	51.2	49.2	3.96
Seilly	56.6	50.2	53.7	51.6	3.70
Prawle Point	56.7	46.2	51.2	49.6	3.60
Jersey	58.2	48.6	53.8	50.7	4.46
Hurst Castle	57.1	45.8	50.8	49.2	3.28
Dover	56.1	46.2	50.2	48.2	3.22
LONDON	56.7	42.7	47.5	45.9	2.57
Oxford	55.5	42.2	46.2	44.9	2.56
Cambridge	56.5	41.0	46.4	45.3	2.27
Yarmouth	54.3	44.6	49.0	47.6	2.92

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 29.9 in. and more to 29.8 in. in two large high-pressure systems — one lying over central and southern Europe, the other spreading in over the southwestern part of our Islands and the Bay of Biscay from the Atlantic.

Lowest, 29.1 in. and less, in a depression over Sweden, 29.6 in. and less, in a secondary disturbance off the north of Scotland.

Gradients slight except in the far north, but irregular. Barometer rising generally.

## TEMPERATURE

Highest, 64° at Liverpool, 56° at Lyons, 55° at Leoben, 51° at Stockholm.

Lowest, (1) 39° at Munich, (2) 37° at York, 38° at Shields and Aberdeen, 41° at Kirk.

It has fallen considerably over the eastern half of England since Friday.

## WIND

Strong from SW. and W. over the southern part of Sweden, light in the south of Norway; light and extremely variable over England and France; moderate to light from the NW over all our western districts, and from between N. and E. over the Bay of Biscay.

## WEATHER

Fine in Ireland, and England, rainy over Scotland and unsettled over the northern countries generally.

Rain is falling at Paris and Brussels also. Aurora was seen at the northern and northwestern stations last night.

## SEA

Still rough off Ushant, moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

During the past 24 hours the barometer has continued to rise over the whole of Western Europe, but has fallen a little in the far north, and while gradients have become slight over the United Kingdom, France, and Germany, they are still somewhat steep over Scandinavia. The distribution of pressure over the northern district is very complex. Temperature has fallen over England, and a NW to N current of wind is spreading over our Islands from the W.

## FORECASTS

For the 24 hours ending at NOON on 25<sup>th</sup> OCT<sup>r</sup> 1891.

### DISTRICTS.

### FORECASTS.

0 SCOTLAND NORTH

1 SCOTLAND EAST

2 ENGLAND N.E.

3 ENGLAND EAST

4 MIDLAND COUNTIES

5 ENGLAND SOUTH

NW<sup>2</sup> winds, some showers, then finer and colder.

Same as No 5

Wind becoming NW<sup>2</sup> or N<sup>2</sup>; fair generally, colder, fog or haze at times.

### DISTRICTS.

### FORECASTS.

6 SCOTLAND WEST

7 ENGLAND N.W.

8 ENGLAND S.W.

9 IRELAND NORTH

10 IRELAND SOUTH

NW<sup>2</sup> or N<sup>2</sup> breezes, light or moderate; fair generally.

### WARNINGS

NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

THER: WIND								THER: WIND							
BAR:		D.	W.	D.	F.	WEA.	SEA	BAR:		D.	W.	D.	F.	WEA.	SEA
Skudesnaes ...	29.32	52	48	S	2	0	3	Holyhead ...	29.41	54	49	SW	2	60	2
Sumburgh Head	29.26	51	50	WNW	1	6c	3	Valencia ...	29.51	53	51	NW	5	60	5
Stornoway ...	29.30	48	47	Z	0	c	2	Scilly ...	29.49	55	52	WSW	4	60	4
Aberdeen ...	29.33	50	47	NNW	1	6c	3	Jersey ...	29.59	59	54	WSW	4	60	4
Shields ...	29.34	50	48	WSW	2	om	2	Dungeness ...	29.52	58	52	W	5	c	4
Ardrossan ...	29.36	52	52	Z	0	6c	0	London ...	29.54	57	52	SW	3	c	5
Mulin Head ...	29.37	51	49	NNW	3	c	1	Yarmouth ...	29.44	52	50	W	5	c	5
Mullaghmore ...	29.42	49	48	SW	2	c	2	Rochefort ...	29.62	59	55	WNW	2	0	5
Belmullet ...	29.46	52	49	NNW	2	6c	*								

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

Weather rainy over the northern part of England and Wales, and showing on our extreme southwest coasts, but fine in most other parts of our Islands, as well as over France and the greater portion of central and southern Europe. Dull at most of the Russian and Scandinavian stations, with rain in several places, snow in Lapland and Finland, and a thunderstorm at Nicolaiiff. Fog reported over Austria and South Germany. Showers falling during day in many parts of the United Kingdom, lightning was seen at Karlskrona at night, and bright Aurora in the northern parts of Ireland and Scotland.

Temperature highest 73° at Algiers, 69° at Barcelona, 68° at Brindisi, and 67° at Malta; above 60° over southern Europe generally, and as high as from 57° to 59° over the east and southeast of England. Lowest, 18° at Archangel, 26° at Moscow, 29° at Pskereburg, and 31° at Uleaborg; below 40° in the north and east of Scotland. Daily maxima below 55° in the north and west of our Islands, but thermometers touching 60° in the southeast of England, and exceeding 65° in France.

Wind light or moderate from the NW<sup>nd</sup> in the west of Ireland, moderate to strong from the W<sup>nd</sup> over the Channel and Bay of Biscay, light from the SW<sup>nd</sup> in the northern parts of our Islands. S<sup>1</sup> or SE<sup>1</sup> over the greater part of Scandinavia, Denmark, Germany, Russia, and Italy, but E<sup>1</sup> in the northern parts of Norway and Sweden, with a gale at Heriöland. Variable in Spain, Austria and the south of Russia. NW<sup>1</sup> breezes subsequently settling in on all our western coasts.

Barometer highest, 30.3 in; and upwards in an anticyclone lying over Central Russia. Lowest 29.2 in; and less, in a large area lying to the northward of our Islands and the west of Norway, as well as in a small depression lying over Lincolnshire. Low pressure systems subsequently moving away north-eastwards and barometer rising in all parts of Western Europe.

### EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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



# DAILY WEATHER REPORT.

for Sunday 25<sup>th</sup> OCT<sup>r</sup> 1891.  
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

R. H. SCOTT, Secretary.																				
8 A.M. TO DAY.																				
PAST 24 HOURS.																				
YESTERDAY EVENING.																				
BAROMETER.																				
SHADE TEMP.																				
WIND.																				
SEAS.																				
SHADE TEMP.																				
Amount of Rainfall.																				
STATIONS.																				
Reading at 32° F. and Sea Level.																				
Dry.																				
Direc.																				
Force. (0 to 12.)																				
Weather.																				
Reading at 32° F. and Sea Level.																				
Difference from 8 a.m. yesterday.																				
Dry.																				
Wet.																				
Difference from 8 a.m. yesterday.																				
Direc.																				
Force. (0 to 12.)																				
Weather.																				
Seas. (0 to 12.)																				
Max.																				
Min.																				
Amount of Rainfall.																				
SCANDINAVIA.	Haparanda ...	29.30	26	ENE	2	bc	29.64	+	.82	41	41	-	6	Z	0	bc	*	?	?	0.39
	Hernösand ...	29.69	42	Z	0	b	29.84	+	.82	41	41	-	6	W	4	b	*	66	37	-
	Stockholm ...	30.16	48	Z	0	c	29.95	+	.59	39	39	-	12	Z	0	b	*	61	46	-
	Wisby ...	29.84	51	W	4	c	29.93	+	.35	49	47	-	2	NNW	4	o	*	52	48	-
	Bodö ...	29.24	40	SE	2	r	29.80	+	.64	41	37	+	1	WNW	6	o	3	41	37	0.43
	Christiansund	29.73	44	WSW	4	c	30.00	+	.65	44	41	-	2	SSW	3	c	5	48	43	0.08
	Skudesnaes ...	29.82	46	Z	0	c	29.96	+	.34	46	45	-	1	E	1	bc	2	54	45	0.20
	Christiania Fjord (Fjærd)	29.81	51	W	3	b	29.96	+	.47	45	41	-	7	NNE	3	b	3	54	42	-
	Skagen (The Seaw)	29.84	47	WNW	1	b	29.91	+	.31	45	44	-	6	Z	0	b	0	?	41	-
	Fanö ...	29.85	50	S	2	c	29.88	+	.14	48	47	-	4	E	4	bc	*	55	46	0.04
BRITISH ISLANDS.	Sumburgh Head	29.49	43	NE	1	o	29.93	+	.33	46	45	+	4	E	1	c	3	46	39	-
	Stornoway ...	29.77	43	NW	3	c	29.90	+	.26	40	39	-	3	W	2	b	3	47	36	0.02
	Wick ...	29.75	47	NE	2	r	29.90	+	.31	41	40	0	0	N	1	b	0	46	40	0.65
	Nairn ...	29.75	45	SW	2	c	29.90	+	.29	34	33	-	11	Z	0	b	1	51	38	0.05
	Aberdeen ...	29.79	47	SW	1	c	29.95	+	.29	37	36	-	1	W	2	bcw	1	51	34	-
	Leith ...	29.80	48	SW	1	m	29.91	+	.24	34	34	-	9	Z	0	m	*	55	31	-
	Shields ...	29.79	47	SW	1	b	29.89	+	.19	42	41	+	4	Z	0	cm	1	55	36	-
	Spurn Head ...	29.70	49	NNE	1	bc	29.83	+	.13	50	48	+	5	NE	2	cm	1	54	43	-
	York ...	29.80	45	WNW	1	b	29.86	+	.14	39	39	+	2	NW	1	o	*	54	32	-
	Loughborough	29.79	46	Z	0	f	29.84	+	.14	41	41	-	3	NW	1	fw	*	56	38	-
GERMANY & HOLLAND.	Ardrossan ...	29.80	47	Z	0	b	29.91	+	.21	38	38	-	12	ENE	1	br	1	53	34	-
	Malin Head ...	29.83	47	NW	2	b	29.90	+	.17	42	38	-	4	S	1	b	1	49	39	-
	Mullaghmore ...	29.85	44	W	2	b	29.89	+	.10	38	37	-	8	ENE	1	b	2	51	37	-
	Belmullet ...	29.82	47	S	1	b	29.86	+	.04	42	41	-	2	ESE	1	b	*	52	38	0.03
	Donaghadee ...	29.84	45	NNW	2	b	29.90	+	.16	38	37	-	5	W	3	bc	1	53	32	-
	Liverpool (Bidston)	29.84	49	NW	1	bc	29.89	+	.15	36	35	-	10	E	1	f	1	52	35	-
	Holyhead ...	29.83	49	N	1	b	29.87	+	.13	46	45	-	4	E	1	bcw	2	52	41	-
	Parsonstown ...	29.88	41	Z	0	b	29.89	+	.04	29	28	-	6	Z	0	b	*	52	28	-
	Valencia ...	29.88	43	Z	0	b	29.84	-	.06	44	42	-	3	Z	0	b	1	55	38	0.01
	Roche's Point...	29.89	42	N	1	b	29.88	+	.04	37	36	-	6	NNW	1	bw	3	52	36	-
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.93	48	N	2	bc	29.83	+	.06	44	44	-	4	NE	3	bcw	1	53	43	0.01
	Silly ...	29.83	50	N	4	bc	29.76	-	.04	50	47	-	2	NNE	4	bc	4	54	47	-
	Prawle Point ...	29.82	49	NW	2	b	29.77	-	.02	44	43	-	3	N	3	ogm	2	54	42	-
	Jersey (St. Aubin's)	29.81	53	NNW	3	b	29.68	-	.10	52	49	0	0	NE	4	om	3	58	45	-
	Hurst Castle ...	29.81	55	NNE	2	b	29.77	+	.02	44	44	-	4	NE	3	mur	2	57	41	0.01
	Dungeness ...	29.77	52	WSW	3	b	29.73	+	.01	49	49	-	3	N	3	c	2	59	39	-
	London ...	29.79	47	NW	1	bm	29.79	+	.05	46	45	-	2	NNE	1	ogm	*	57	42	-
	Oxford ...	29.83	41	Z	0	f	29.83	+	.09	43	43	-	2	NE	2	ofw	*	50	40	0.01
	Cambridge ...	29.81	46	Z	0	b	29.83	+	.09	44	44	0	0	N	1	om	*	56	41	-
	Yarmouth ...	29.76	55	Z	0	bc	29.79	+	.08	52	51	+	1	NNE	4	c	4	64	41	-
PENINSULA.	Cuxhaven ...	29.86	52	SE	3	r	29.84	+	.01	52	51	+	3	E	5	r	*	54	49	0.20
	Berlin ...	29.84	55	SE	3	b	29.83	-	.03	46	45	-	4	SE	3	f	*	61	45	-
	Wiesbaden ...	*	*	*	*	*	29.75	-	.05	52	50	+	4	S	1	c	*	59	46	-
	Munich ...	29.80	45	Z	0	f	29.78	-	.13	44	44	+	5	NE	4	f	*	54	39	-
	The Helder ...	29.86	50	SSE	1	c	29.83	+	.04	53	51	+	4	NE	2	c	3	55	48	-
	Brussels (9 a.m.)	*	*	*	*	*	29.72	-	.05	48	48	-	1	NE	5	f	*	52	46	0.12
	Cape Gris Nez	29.76	53	W	1	bc	29.71	+	.03	51	50	+	1	NE	4	o	4	57	46	-
	Paris ...	29.80	50	NNE	2	r	29.64	-	.12	50	50	0	0	NNE	3	r	*	53	47	0.12
	Brest ...	?	60	N	2	bc	?	?	?	47	46	-	3	NE	1	c	2	59	43	-
	Lorient ...	29.83	55	N	3	b	29.64	-	.16	48	46	-	2	N	3	o	4	61	46	-
FRANCE AND BELGIUM.	Rocheport ...	29.70	55	NNE	4	o	29.47	-	.24	51	51	+	1	ENE	6	r	4	57	50	1.10
	Belfort ...	?	55	N	2	c	?	?	?	51	47	-	4	N	2	f	*	61	46	-
	Lyons ...	29.70	58	NW	2	o	29.56	-	.21	52	50	-	4	W	1	r	*	68	51	-
	Nice ...	29.77	60	E	6	bc	29.66	-	.22	58	54	+	6	E	6	r	8	64	57	0.16
	Perpignan ...																*			
	Biarritz ...	29.74	57	NNE	5	r	29.80	-	.44	55	55	+	1	NW	9	r	8	59	52	2.56
	Corunna ...	*	*	*	*	*	29.73	-	.15	55	51	+	2	N	3	bc	3	57	48	-
	Lisbon ...	29.83	51	NNW	5	b	29.82	+	.03	54	51	-	1	NW	4	bc	4	61	54	-

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

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



# WEATHER CHARTS

for 8 a.m. on Sunday, 25<sup>th</sup> Oct. 1891.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP

**BAROMETER**—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

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

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

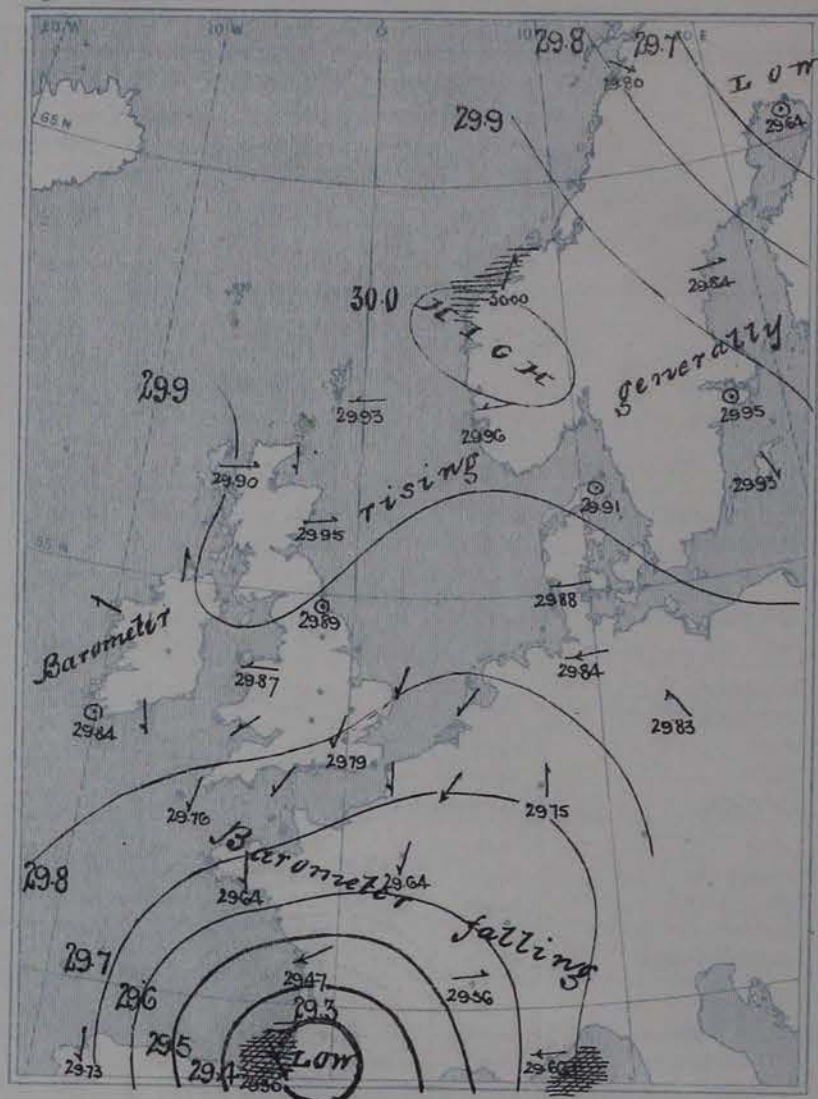
### MEAN HEIGHT OF THE BAROMETER

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

#### STATIONS.

#### MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.726
Stornoway	29.756
Wick	29.763
Nairn	29.779
Aberdeen	29.793
Leith	29.823
Shields	29.846
Spurn Head	29.867
York	29.882
Loughborough	29.904
Ardrossan	29.831
Mullaghmore	29.845
Donaghadee	29.850
Holyhead	29.872
Liverpool	29.879
Parsonstown	29.897
Valencia	29.896
Roche's Point	29.892
Pembroke	29.888
Scilly	29.910
Prawle Point	29.931
Jersey	29.925
Hurst Castle	29.922
Dover	29.916
LONDON	29.923
Oxford	29.921
Cambridge	29.912
Yarmouth	29.894



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

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

**WEATHER**—is shown by letters of the Beaufort Scale.

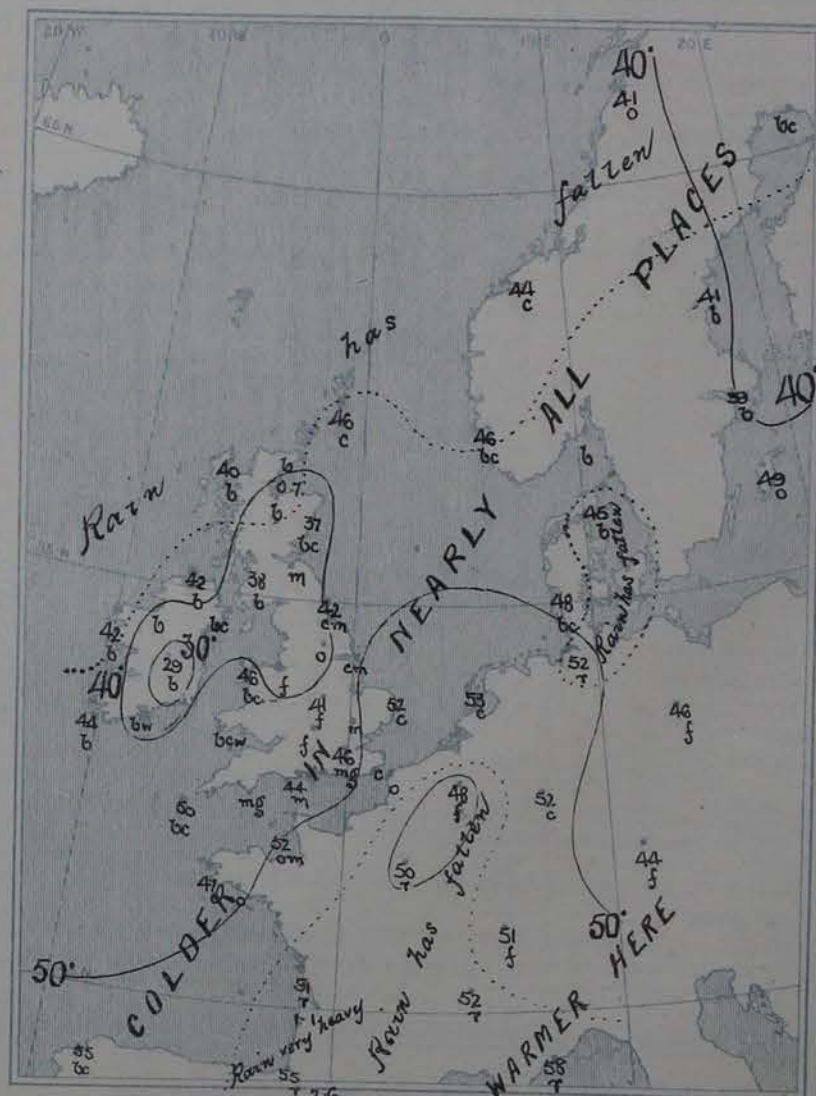
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of October.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily	Daily	at 8 a.m.		
	Max.	Min.	Dry.	Wet.	
Sumburgh Head	49.8	41.6	46.0	44.3	4.27
Stornoway	51.0	40.5	45.6	44.5	5.01
Wick	51.7	40.5	46.3	44.6	3.02
Nairn	51.9	40.8	44.8	42.9	2.38
Aberdeen	52.5	41.4	45.6	43.6	2.87
Leith	54.7	41.8	46.7	44.9	1.97
Shields	53.2	42.7	47.2	45.4	2.48
Spurn Head	53.3	45.7	48.8	47.3	2.27
York	54.5	41.4	45.9	44.5	2.60
Loughborough	53.7	41.1	45.0	44.6	2.80
Ardrossan	53.7	43.7	47.8	45.8	3.87
Mullaghmore	54.2	45.7	49.1	46.9	4.75
Donaghadee	53.6	43.6	47.8	46.6	3.14
Holyhead	54.7	47.3	50.3	48.3	4.31
Liverpool	53.8	44.7	47.8	45.8	3.16
Parsonstown	54.8	41.0	46.2	44.5	3.16
Valencia	56.6	46.8	51.4	49.2	5.88
Roche's Point	53.0	46.1	50.2	48.3	4.09
Pembroke	54.9	48.0	51.2	49.2	3.96
Scilly	56.6	50.2	53.7	51.6	3.70
Prawle Point	56.7	46.2	51.2	49.6	3.60
Jersey	58.2	48.6	53.3	50.7	4.45
Hurst Castle	57.1	45.8	50.8	49.2	3.28
Dover	56.1	46.2	50.2	48.2	3.22
LONDON	56.7	42.7	47.5	45.9	2.67
Oxford	55.5	42.2	46.2	44.9	2.56
Cambridge	56.5	41.0	46.4	45.3	2.27
Yarmouth	54.3	44.6	49.0	47.6	2.92

NOTE.—The Temperature means are for the 20 years 1871-90; the Rainfall means are mainly those for the 25 years 1866-90.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, (1) 30.0 in. to 29.9 in. in an anticyclone of irregular form covering Scotland, the southern half of Scandinavia and the Baltic.  
(2) 29.8 in. and more in the extreme southwest of the Iberian Peninsula.  
Lowest, 29.3 in. and less, in a depression lying over the extreme southwest of France and northeast of Spain.  
Gradients rather steep in last named regions, slight over our Islands and Scandinavia.  
Barometer falling decidedly over France, slightly over our southern counties, rising in the north of our Islands and over the North Sea.

## TEMPERATURE

Highest, 58° at Nice, 54° to 55° at the Spanish stations, 53° at the Helder, 50° at Scilly.  
Lowest, 29° at Paris-station, 34° at Nain and Ruth, 37° at Aberdeen and Rockport, 39° at York and Stockholm.  
It has fallen greatly in the north and northwest of our Islands during the night.

## WIND

Light and extremely variable over Ireland, Scotland and Scandinavia.  
NE light to moderate over England and freshening at the southern stations.  
NW strong gale at Biarritz, N to NW moderate in Portugal. ESE strong in the south of France.

## WEATHER

Fine in the west and north of our Islands and over Scandinavia, dull and foggy (or hazy) at the English stations and in north Germany.  
Very rainy over the greater part of France.  
Rainfall has been very heavy in the southwest of France viz 2.4 in. at Biarritz and 1.4 in. at Rochefort.

## SEA

High on our southwestern and southern coasts of France, moderate at Yarmouth and Scilly, slight or smooth on our coasts as a whole.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression over the Pyrenees lay near the Algerian coast yesterday and is now moving north-eastwards towards Central France.

## FORECASTS

For the 24 hours ending at NOON on 26<sup>th</sup> OCT<sup>r</sup> 1891.

### DISTRICTS.

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

### FORECASTS.

None issued

### DISTRICTS.

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

### FORECASTS.

None issued

### WARNINGS

None issued

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



# YESTERDAY'S 2 P.M. REPORTS.

THER: WIND								THER: WIND							
BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA	
Skudeanaes ...	29.70	54	49	ESE	1	c	3	Holyhead ...	29.80	51	48	N	3	bc	2
Sumburgh Head	29.71	46	43	NE	2	c	3	Valencia ...	29.89	51	46	W	2	bc	2
Stornoway ...	29.73	46	46	NW	3	o	3	Scilly ...	29.83	53	49	NNW	4	bc	4
Aberdeen ...	29.72	50	46	WNW	2	bc	1	Jersey ...	29.81	58	52	NW	3	bc	3
Shields ...	29.74	55	49	SW	2	c	2	Dungeness ...	29.75	57	53	W	3	c	2
Ardrossan ...	29.76	53	51	NW	1	bc	1	London ...	29.78	51	49	NW	1	omg	*
Malin Head ...	29.80	49	45	NW	2	b	2	Yarmouth ...	29.74	54	52	Z	0	bc	2
Mullaghmore	29.83	50	46	NNE	2	bc	2	Rochefort ...	29.72	57	54	N	4	o	?
Belmullet ...	29.84	52	48	WSW	2	bc	*								

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

Weather fine over the greater part of our Islands, but dull and rainy in the north of Scotland; fine also over Italy, Austria, and the south of Russia. Dull elsewhere with rain at several of the Scandinavian, German, French, and Spanish stations and snow in Lapland and northern Russia. Fog reported in some parts of Central Europe. Heavy rain falling, later over Algeria and the south of France (with a thunderstorm at Algiers) the largest amounts being 1.8 in. at Marseilles and 1.7 in. at Orsette.

Temperature highest 81° at Algiers, 74° at Tunis, 73° at Safat, and 71° at Cagliari; above 60° at most of the Mediterranean and Adriatic stations; above 50° over the Baltic. Lowest 18° at Archangel, 32° at Moscow, 34° at Uleaborg, and 36° at St. Petersburg; below 40° over Central Ireland and also in the northeast of Great Britain. Daily maxima below 60° in nearly all parts of our Islands, and below 50° in the Shetlands, Hebrides, and extreme north of Ireland. Exceeding 70° in Italy, Algeria, and the south of France; the highest reading of all being 81° at Palermo.

Wind light or moderate from the NW<sup>nd</sup> over the greater part of our Islands, but SE<sup>3</sup> in the east and southeast of England. Strong from the SW<sup>nd</sup> at several of the Baltic and Scandinavian stations; light from the S<sup>nd</sup> over the greater part of Russia. Variable over Italy and Central Europe; cyclonic circulation reported over Spain, Algeria, and the western part of the Mediterranean. Subsequently falling light and variable over the western part of the United Kingdom; strong E<sup>3</sup> wind setting in over the extreme south of France.

Barometer highest, 30.1 in. to 30.3 in. in an anticyclone lying over the southern part of Russia; 29.9 in. and upwards, in another high pressure system lying to the southeastward of Ireland. Lowest 29.1 in. and less, in a well marked depression lying over Central Sweden, 29.5 in. and less, in another disturbance lying over Algeria. Swedish depression subsequently travelling away to the northeastward, disturbance over Algeria advancing northwards towards the east of Spain.

### EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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

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„ Weekly „ „ „ £1 10 0 „



# DAILY WEATHER REPORT.

for *Monday, 26<sup>th</sup> October, 1891.*  
 Issued by the Meteorological Office, 63, Victoria Street, London. *R. H. SCOTT, Secretary.*

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.  Reading at 32° F. and Sea Level.	TEMP.  Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			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 ...	29.94	22	Z	0	b	29.96	+ 32	16	15	?	Z	0	bc	*	28	16	-
	Hernösand ...	30.10	33	Z	0	b	30.09	+ 25	30	29	- 11	Z	0	b	*	46	28	-
	Stockholm ...	30.08	37	Z	0	b	30.12	+ 17	32	31	- 7	Z	0	b	*	48	?	-
	Wisby ...	30.05	43	E	4	b	30.10	+ 17	41	39	- 8	ENE	4	b	*	50	41	-
	Bodö ...	30.03	38	Z	0	o	29.87	+ 07	39	37	- 2	WSW	6	r	3	41	34	0.08
	Christiansund	30.11	42	SSW	2	bc	30.16	+ 16	44	42	0	W	6	r	5	45	41	0.12
	Skudesnaes ...	30.12	45	E	1	b	30.22	+ 26	41	39	- 5	NNE	1	bc	2	55	37	-
	Christiania Fjord (Færder)	30.11	45	N	2	b	30.18	+ 22	40	38	- 5	N	2	b	2	48	39	-
	Skagen (The Scaw)	30.09	45	E	1	c	30.13	+ 22	44	42	- 1	E	1	b	0	52	41	-
	Fanö ...	29.99	47	ENE	4	b	30.02	+ 14	43	43	- 5	NE	4	c	*	54	43	-
BRITISH ISLANDS.	Sumburgh Head	30.05	46	E	1	c	30.24	+ 34	47	46	+ 1	ENE	1	bc	3	50	42	-
	Stornoway ...	30.02	46	NW	2	bc	30.23	+ 33	39	38	- 1	Z	0	b	2	51	35	-
	Wick ...	30.09	46	NW	1	b	30.24	+ 34	33	32	- 8	NW	1	f	1	52	32	-
	Nairn ...	30.06	38	Z	0	b	30.23	+ 33	39	38	+ 5	Z	0	b	1	53	29	0.01
	Aberdeen ...	30.08	43	NNW	1	bc	30.25	+ 30	40	39	+ 3	NW	2	bcw	2	50	37	-
	Leith ...	30.02	46	E	2	c	30.17	+ 26	47	47	+ 13	NNE	3	o	*	51	33	-
	Shields ...	29.98	49	Z	0	c	30.07	+ 18	50	49	+ 8	NE	3	o	3	52	39	-
	Spurn Head ...	29.86	52	NNE	3	bc	29.92	+ 09	52	50	+ 2	NE	6	og	5	54	49	-
	York ...	29.91	49	NNW	1	c	30.01	+ 10	52	50	+ 13	NNE	3	o	*	53	38	-
	Loughborough	29.84	50	NNE	3	o	29.87	+ 03	51	50	+ 10	NE	4	rg	*	53	41	0.02
GERMANY & HOLLAND.	Ardrossan ...	30.01	45	ENE	1	bm	30.14	+ 23	45	44	+ 7	ENE	3	bmw	1	48	37	-
	Malin Head ...	30.02	46	ENE	1	b	30.14	+ 24	47	45	+ 5	ENE	3	o	1	51	42	-
	Mullaghmore ...	30.01	47	NE	2	b	30.12	+ 23	43	42	+ 5	NE	2	cm	2	49	35	-
	Belmullet ...	29.98	45	ENE	1	b	30.10	+ 24	44	43	+ 2	ENE	1	b	*	52	38	-
	Donaghadee ...	29.99	48	NNE	3	b	30.10	+ 20	50	46	+ 12	NE	4	bc	2	51	38	-
	Liverpool (Bidston)	29.94	46	NE	2	c	29.97	+ 08	51	48	+ 15	NE	3	o	3	51	36	-
	Holyhead ...	29.90	50	NE	3	cm	29.96	+ 09	52	50	+ 6	ENE	6	cq	5	53	46	-
	Parsonstown ...	29.96	44	Z	0	b	30.03	+ 14	41	40	+ 12	Z	0	c	*	52	29	-
	Valencia ...	29.94	46	NE	3	b	30.00	+ 16	44	42	0	N	5	bcm	4	55	40	-
	Roche's Point...	29.90	46	NE	2	b	29.93	+ 05	46	44	+ 9	N	3	b	3	54	35	-
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.81	49	NE	3	c	29.81	- 02	52	51	+ 8	NE	4	ogp	2	53	44	0.02
	Scilly ...	29.68	52	NE	5	o	29.68	- 08	52	52	+ 2	NE	5	o	4	55	47	0.08
	Prawle Point...	29.69	48	NE	5	r	29.70	- 07	52	52	+ 8	NE	7	ru	5	52	43	0.04
	Jersey (St. Aubin's)	29.57	55	NE	5	o	29.62	- 06	55	54	+ 3	ENE	3	rm	3	56	50	0.40
	Hurst Castle ...	29.70	53	NE	6	r	29.72	- 05	54	54	+ 10	NE	4	adm	3	54	44	0.11
	Dungeness ...	29.64	54	NE	4	o	29.65	- 08	56	55	+ 7	ENE	7	og	6	56	48	0.12
	London ...	29.76	52	NE	3	o	29.75	- 04	55	53	+ 9	NE	4	r	*	55	46	0.20
	Oxford ...	29.79	50	NE	3	r	29.79	- 04	52	51	+ 9	NNE	4	ot	*	52	43	0.02
	Cambridge ...	29.78	53	N	1	r	29.81	- 02	53	53	+ 9	NE	2	r	*	53	42	0.14
	Yarmouth ...	29.79	52	NE	6	ogt	29.79	- 00	54	53	+ 2	NE	7	ogju	6	55	50	0.02
PENIN- SULA.	Cuxhaven ...	29.88	52	ENE	6	o	29.92	+ 08	52	51	0	ENE	5	o	*	52	50	-
	Berlin ...	29.85	50	E	3	j	29.83	- 00	51	51	+ 5	NE	4	o	*	54	46	-
	Wiesbaden ...	*	*	*	*	*	29.66	- 09	49	48	- 3	Z	0	bc	*	59	46	-
	Munich ...	29.67	45	NE	2	b	29.65	- 13	45	45	+ 1	NW	1	o	*	54	41	0.04
	The Helder ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Brussels (9 a.m.)	*	*	*	*	*	29.65	- 07	51	50	+ 3	ENE	2	o	*	52	48	-
	Cape Gris Nez	29.65	55	ENE	6	r	29.64	- 07	53	52	+ 2	ENE	5	m	5	55	48	0.08
	Paris ...	29.60	53	NNE	2	o	29.62	- 02	51	51	+ 1	NE	2	r	*	55	50	-
	Brest ...	?	51	NE	4	r	?	?	54	54	+ 7	NE	4	o	2	55	45	0.35
	Lorient ...	29.42	54	NE	5	r	29.50	- 14	55	53	+ 7	NE	4	c	4	55	48	0.43
FRANCE AND BELGIUM.	Rochefort ...	29.33	61	SE	4	bc	29.44	- 03	52	51	+ 1	SE	4	o	*	64	48	0.28
	Belfort ...	?	47	W	2	j	?	?	53	47	- 1	SW	1	f	*	51	46	-
	Lyons ...	29.55	57	S	2	o	29.62	+ 06	48	48	- 4	ENE	1	f	*	61	47	0.08
	Nice ...	29.62	58	SSE	1	r	29.75	+ 09	52	51	- 6	NE	3	o	5	64	50	1.42
	Perpignan ...	29.43	55	Z	0	r	29.56	+ 13	52	51	- 4	Z	0	r	*	67	51	0.39
	Biarritz ...	29.36	57	W	9	o	29.48	+ 18	51	47	- 4	S	3	c	4	59	48	0.59
PENIN- SULA.	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lisbon ...	29.62	54	ENE	1	r	29.60	- 22	50	46	- 4	NNE	4	b	5	61	50	0.20

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

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







# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.2 in: and more to 30.1 in: over the northern parts of our Islands and the southern half of Scandinavia.  
 Lowest, 29.5 in: in a depression over the west of France, and 29.9 in: and less, over Lapland.  
 Gradients somewhat steep over England and the Channel, moderate in the north of Norway, very slight over Scotland and the southern half of Norway, Sweden.  
 Barometer inclined to rise over our Islands generally - most in the northwest and north.

## TEMPERATURE

Highest, 56° at Birmingham, 55° in London and at Jersey, 52° on the southern coasts of England and at Rochefort.  
 Lowest, (1) 16° at Kasperanda, 30° at Kunnissand, 32° at Stockholm; (2) 33° at Wick, 39° at Stornoway and Kain, 40° at Aberdeen, 41° at Passenatoran.  
 In London the maximum temperature since Sunday morning was the reading (55°) at 8 am today.

## WIND

Strong from the W<sup>nd</sup> in the north of Norway; very light and variable in the south of Norway and in Scotland; light NE<sup>1</sup> in Ireland.  
 Moderate NE<sup>1</sup> in the north of England; strong to a moderate gale in the south.  
 Moderate and variable over France.

## WEATHER

Fine over Ireland, Scotland and Sweden; raining in the northern parts of Norway and also over the southern half of England, where the fall has continued for several hours.  
 Large quantities of rain have fallen over the southern half of France. Faint Aurora was seen at Wick last night.

## SEA

Rough on our eastern and southern coasts, also at Kiel and Lisbon.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A well marked anticyclone now lies over Scotland and the southern half of Scandinavia, while depressions have appeared over the Bay of Biscay and France, on the one hand, and less clearly marked disturbances appear to be advancing over Lapland on the other. Strong NE<sup>1</sup> winds and rain are consequently prevailing over our southern districts, while strong W<sup>1</sup> winds and rain are felt in the far north, in Ireland and Scotland, however, the weather is fine. There is no decided indication of much change.

## FORECASTS

For the 24 hours ending at NOON on 27<sup>th</sup> OCT<sup>r</sup> 1891.

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	Very light winds; fair generally, fog at times.
1	SCOTLAND EAST	
2	ENGLAND N.E.	NE <sup>2</sup> winds, moderate; drizzle, some rain.
3	ENGLAND EAST	Same as No 5.
4	MIDLAND COUNTIES	Same as No 2.
5	ENGLAND SOUTH	NE <sup>2</sup> winds, strong, a gale at times; rainy, drizzle.

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	Same as No 0 and 1.
7	ENGLAND N.W.	Same as No 2.
8	ENGLAND S.W.	NE <sup>2</sup> winds, strong; squally, rainy.
9	IRELAND NORTH	NE <sup>2</sup> winds, moderate; fair.
10	IRELAND SOUTH	NE <sup>2</sup> winds, fresh; fair.
WARNINGS		The NORTH CONE was hoisted yesterday in districts 3, 5, 8, and part of 10, and is still up.

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 ...	30.64	55	48	E	1	bc	2	Holyhead ...	29.90	51	48	NE	3	6	2
Sumburgh Head								Valencia ...							
Stornoway ...	29.97	51	48	NE	2	bc	2	Scilly ...							
Aberdeen ...								Jersey ...	29.61	53	52	NE	4	7	3
Shields ...								Dungeness ...	29.67	54	53	NE	7	7	5
Ardrossan ...								London ...							*
Malin Head ...	29.96	48	45	ESE	1	b	1	Yarmouth ...							
Mullaghmore ...								Rocheport ...	29.32	61	59	ENE	6	0	*
Belmullet ...	29.95	52	47	ESE	1	b	*								

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

*The Continental information will be issued tomorrow.*

### SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 18<sup>TH</sup> TO 24<sup>TH</sup> OCTOBER 1891.

During the greater part of this week there has been a continuance of the stormy rainy weather referred to in last week's Summary. One deep depression after another has reached our most western coasts from the Atlantic, and in advancing north-eastwards has spread out (or "surged") in an easterly direction causing its S.W. to S.W. gales and rain to spread all over the Kingdom. The amount of rain has consequently been largely in excess of the average, especially in the west and south, and pressure has been much below its normal intensity.

On Thursday, however, there were some signs of a change; the deep depression then lying off the west of Ireland began to fill up. On Friday the distribution of pressure was very complex but gradients had decreased everywhere and at the close of the period readings were much higher and more uniform than for a long time past, the winds were light, the weather fair, and temperature was falling.

#### EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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

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

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

„ Weekly „ „ „ „ £1 10 0 „



# DAILY WEATHER REPORT.

for Tuesday 27<sup>th</sup> October. 1891.  
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
		Reading at 32° F. and Sea Level.	Dry.	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 ...		29.55	25	NNW	2	0	30.09	+13	16	16	0	N	2	C	*	27	12	—	
Hernösand ...		30.05	36	NW	4	6	30.07	-02	37	33	+7	NW	4	G	*	41	?	—	
Stockholm ...		30.07	36	2	0	6	30.10	-02	32	25	0	NW	2	G	*	43	30	—	
Wisby ...		30.08	43	N	4	6	30.08	-02	40	37	-1	N	6	bc	*	48	37	—	
Bodö ...		29.50	41	NNW	6	bc	30.11	-24	39	35	0	NNW	1	C	1	41	36	0.04	
Christiansund		30.30	41	NNW	3	0	30.32	+16	44	35	0	N	4	0	4	?	41	—	
Skudesnaes ...		30.23	42	N	5	6	30.31	+09	35	37	-2	ENE	1	G	2	50	36	—	
Christiania Fjord (Færd)		30.20	43	N	1	6	30.30	+12	37	37	-1	N	2	G	1	43	35	—	
Skagen (The Scaw)		30.16	44	ENE	1	6	30.26	+13	42	37	-2	ENE	2	G	1	46	35	—	
Fanö ...		30.07	41	NE	4	6	30.17	+15	37	35	-6	NE	4	G	*	50	36	—	
Sumburgh Head		30.31	45	NNE	1	0	30.37	+10	45	42	-2	2	0	C	2	45	40	0.01	
Stornoway ...		30.25	43	NE	1	6	30.25	+06	45	44	+6	2	3	G	3	53	36	—	
Wick ...		30.30	47	NE	2	C	30.37	+13	46	44	+13	SE	2	C	2	51	33	—	
Nairn ...		30.26	41	2	0	0	30.34	+11	43	41	+4	2	0	0	1	45	34	—	
Aberdeen ...		30.27	47	ENE	5	bcy	30.36	+11	46	42	+6	ENE	4	cy	5	51	40	—	
Leith ...		30.19	45	ESE	3	bc	30.25	+12	45	47	+2	NE	3	0	*	52	33	—	
Shields ...		30.14	50	NE	5	C	30.23	+16	48	46	-2	NE	3	C	4	51	46	—	
Spurn Head ...		29.55	52	NE	7	0	30.09	+17	51	48	-1	ENE	6	bc	5	53	50	—	
York ...		30.03	51	E	3	0	30.16	+15	47	45	-5	ENE	1	G	*	53	43	—	
Loughborough		29.50	51	ENE	6	0	30.05	+18	45	47	-2	ENE	4	ogm	*	51	48	0.13	
Ardrossan ...		30.18	47	ENE	1	6	30.25	+11	45	45	0	ENE	3	6m	2	51	43	—	
Malin Head ...		30.16	50	E	4	cm	30.19	+05	48	44	+1	ESE	6	C	3	50	47	—	
Mullaghmore ...		30.11	50	NE	5	cm	30.17	+05	45	42	+2	ENE	5	G	4	52	41	—	
Belmullet ...		30.13	48	ENE	3	6	30.14	+04	44	42	0	E	2	0	*	52	40	—	
Donaghadee ...		30.12	51	E	5	bc	30.21	+11	48	45	-2	E	6	G	5	54	47	—	
Liverpool (Bidston)		30.11	51	ENE	4	0	30.11	+14	48	43	-3	ENE	6	0	4	53	48	—	
Holyhead ...		29.59	52	ENE	6	Cy	30.09	+13	45	47	-3	ENE	5	cy	5	54	48	—	
Parsonstown ...		30.02	48	NE	1	bc	30.06	+03	45	46	+8	NE	1	0	*	50	40	—	
Valencia ...		29.58	53	NE	5	0	30.02	+02	45	47	+5	ESE	1	og	1	53	42	—	
Roche's Point...		29.53	51	NE	3	bc	30.02	+09	51	49	+5	ENE	0	ogm	4	54	45	—	
Pembroke (St. Ann's Hd.)		29.85	52	NE	4	p	29.92	+11	52	50	0	ENE	4	ogp	3	54	49	0.02	
Scilly ...		29.72	53	NE	5	om	29.80	+12	53	53	+3	NE	5	om	4	55	51	0.09	
Prawle Point ...		29.71	52	NE	6	p	29.84	+14	53	53	+1	NE	6	ogp	4	53	51	0.21	
Jersey (St. Aubin's)		29.63	55	NE	4	p	29.75	+17	53	54	0	ENE	3	bc	3	56	54	0.35	
Hurst Castle ...		29.72	54	NE	5	opdm	29.90	+18	53	53	+1	ENE	5	C	3	55	53	0.15	
Dungeness ...		29.70	53	ENE	7	p	29.00	+25	55	54	-1	E	7	cy	5	56	53	0.10	
London ...		29.77	53	NE	7	op	29.55	+24	57	50	-4	ENE	2	od	*	55	50	0.35	
Oxford ...		29.85	50	NE	3	p	29.59	+20	51	50	-1	ENE	3	p	*	53	50	0.18	
Cambridge ...		29.87	52	NNE	3	p	30.04	+23	51	51	-2	E	1	p	*	54	50	0.34	
Yarmouth ...		29.81	52	ENE	8	odg	30.02	+23	52	50	-2	ENE	7	ogc	6	55	50	0.15	
Cuxhaven ...		29.93	47	ENE	5	0	30.01	+09	44	42	-8	NE	5	C	*	52	42	—	
Berlin ...		29.80	52	NE	5	0	29.91	+08	48	43	-3	NE	5	0	*	54	46	—	
Wiesbaden ...		*	*	*	*	*	29.91	+25	54	52	+5	NE	1	0	*	55	?	0.04	
Munich ...		29.75	50	NW	2	bc	29.93	+28	47	47	+2	NW	5	0	*	53	45	—	
The Helder ...		29.91	52	8	4	C	30.09	+18	50	46		ENE	4	C	4	54	50	0.04	
Brussels (9 a.m.)		*	*	*	*	*	29.95	+30	50	50	-1	NE	3	p	*	54	49	0.04	
Cape Gris Nez		29.70	52	ENE	5	p	29.88	+24	53	53	0	ENE	4	f	5	55	52	0.04	
Paris ...		29.67	57	ENE	2	6	29.85	+23	45	48	-2	ENE	2	p	*	61	45	0.08	
Brest ...		29.63	56	E	3	0	29.69	?	54	53	0	E	2	0	2	61	54	—	
Lorient ...		29.60	55	NE	3	0	29.70	+20	53	52	-2	ENE	3	0	2	59	52	0.08	
Rocheport ...		29.52	56	SE	2	p	29.65	+21	45	48	-3	E	4	G	*	64	46	0.24	
Belfort ...		29.74	57	SW	3	C	29.90	?	48	45	-2	SW	2	f	*	65	47	—	
Lyons ...		29.71	55	8	2	C	29.87	+25	50	47	+2	N	1	bc	*	61	48	—	
Nice ...		29.88	52	NE	3	bc	29.94	+19	53	48	+1	E	1	C	3	59	46	1.22	
Perpignan ...															*				
Biarritz ...		29.52	50	ENE	3	0	29.59	+11	53	49	+2	8	2	0	1	63	48	—	
Corunna ...																			
Lisbon ...		29.63	56	NW	3	0	29.63	+03	57	55	+7	NW	3	0	4	61	?	0.16	

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

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







for 8 a.m. on Tuesday, 27<sup>th</sup> Oct<sup>r</sup>, 1891.

EXPLANATION OF MAP

Changes since previous morning are stated in words.

those barbs and feathers refer to force thus—

 = 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 October  
During the 20 Years: 1871—1890.

Hand-drawn map of the North Atlantic showing isobars and isotherms. The map includes latitude and longitude lines (20°W to 20°E, 29°N to 30°N). Key features include:

- Isobars:** Labeled 30.1, 30.2, 30.3, and 30.4. A high-pressure system (H) is centered around 30.3.
- Isotherms:** Labeled 29.6, 29.7, 29.8, 29.9, and 30.0. A low-pressure system (LOW) is indicated near 29.6.
- Annotations:** "H" (High), "G" (Gulf), "generally", "rising", and "LOW".
- Shaded Areas:** Represent specific regions or features.
- Arrows:** Indicate the direction of flow or movement.

(For the month of October.)

[illegible]

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.



# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.3 in: and upwards, in an anticyclone lying over the north and east of Scotland, the northern parts of the North Sea and the south half of Norway.  
 Lowest, 29.6 in: and less, in a depression lying over Spain and the southern part of the North Sea.  
 Gradients moderate over England and the North Sea, but slight elsewhere.  
 Barometer rising generally, — most in the south.

## TEMPERATURE

Highest, 57° at Lisbon, 55° at Bally, Jersey, Hurst Castle and Bungeness, and 53° at Nice and Biarritz.  
 Lowest, 16° at Haparanda, 32° at Stockholm, 37° at Jaro, 39° at Lissa, Rudenæs, and Bender, and 40° at Vindry.  
 The maxima registered yesterday were below 55° in nearly all parts of the United Kingdom.

## WIND

E or NE over the greater part of Western Europe, strong in force on the more exposed parts of the English and Irish coasts.  
 Light or moderate from the W or NW in Scandinavia, variable in the south of France.

## WEATHER

Cloudy or overcast over France, Germany, and all the more southern parts of our islands, with rain in many places.  
 Fine on our northern coasts, as well as in Scandinavia and Denmark.  
 The largest amounts of rain measured this morning were 1.2 in. at Nice, 0.4 in. at Jersey and in London, and 0.3 in. at Llanabry.  
 Aurora was seen last night at Rudenæs, Wick, and Skullaghmore.

## SEA

Rather rough on the east and southeast coasts of Great Britain, but moderate or slight elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone in the north appears to be spreading slowly southwards, and a gradual improvement in the weather is probable over England.

## FORECASTS

For the 24 hours ending at NOON on 28<sup>th</sup> OCT<sup>r</sup> 1891.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 { SCOTLAND NORTH	SE <sup>ly</sup> and S <sup>ly</sup> winds, light; fair generally.	6 { SCOTLAND WEST	} Same as N <sup>os</sup> 1 and 2
1 { SCOTLAND EAST	} NE <sup>ly</sup> and E <sup>ly</sup> winds, moderate; fair generally.	7 { ENGLAND N.W.	
2 { ENGLAND N.E.		8 { ENGLAND S.W.	NE <sup>ly</sup> to E <sup>ly</sup> winds, fresh or strong; drizzle, showery.
3 { ENGLAND EAST	} E <sup>ly</sup> winds, strong on coast; weather improving gradually, but slight rain in places, becoming colder.	9 { IRELAND NORTH	E <sup>ly</sup> winds, fresh; fair generally
4 { MIDLAND COUNTIES		10 { IRELAND SOUTH	Same as N <sup>o</sup> 8.
5 { ENGLAND SOUTH		WARNINGS	
		The NORTH CONE is still flying in districts 3, 5, 8, and part of 10.	

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



# YESTERDAY'S 2 P.M. REPORTS.

	THER:				WIND					THER:				WIND				
	BAR:	D.	W.	F.	D.	F.	WEA.	SEA		BAR:	D.	W.	F.	D.	F.	WEA.	SEA	
Skudesnaes ...	30.01	50	43	NNW	2	6		2	Holyhead ...	29.97	53	50	ENE	6	09		5	
Sumburgh Head ...	30.20	48	45	ENE	1	6		3	Valencia ...	29.98	51	49	NE	3	08		8	
Stornoway ...	30.24	50	45	NE	2	6		2	Scilly ...	29.70	53	53	NE	5	0		4	
Aberdeen ...	30.25	50	47	ENE	4	6		4	Jersey ...	29.62	56	53	NE	4	07		3	
Shields ...	30.10	50	48	NNE	3	C		4	Dungeness ...	29.66	54	54	ENE	7	7		6	
Ardrossan ...	30.14	51	50	ENE	4	6		2	London ...	29.75	53	54	NE	4	07		8	
Malin Head ...	30.14	50	47	ENE	4	0		2	Yarmouth ...	29.80	55	54	ENE	5	07		6	
Mullaghmore ...	30.10	51	48	ENE	5	6		4	Rochefort ...	29.47	63	60	SE	3	C		?	
Belmullet ...	30.12	52	48	ENE	3	6		*										

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

Weather in morning fine and bright at nearly all stations in southeastern and central Europe and those on the southern side of the Mediterranean — also over Ireland, Scotland, the southern half of Scandinavia and the Baltic; cloudy and very unsettled elsewhere, with constant rain over the southern counties of England, rain or fog in various parts of France, as well as over the northern half of Norway. Rain continuing over the south of our islands and in France, the largest falls being 1.22 in. at Nice, and about 0.35 in. at Jersey, London and Cambridge.

Temperatures higher over the United Kingdom, lower over northern, central, and southeastern Europe than on Sunday; Malta the only station at which the thermometer touched 70°. Morning readings exceeding 60° over Italy and Algeria only, but exceeding 50° over the greater part of France and England. Lowest (1) 16° at Haparanda, 24° at Uleaborg, 28° at Kuopio, 30° at Archangel; (2) 33° at Thess, 39° at Romsdal, and Naiv, 40° at Aberdeen, 41° at Parsonstown; (3) 33° at Arkhark.

Wind strong, N<sup>3</sup> in the north of Norway; calm in Scotland; NE over Ireland, England, and the Channel — moderate or light at the Irish stations, strong and squally on our eastern and southern coasts; NNW at Comman; S and SE in the southwest of France. Light anticyclonic breeze prevalent over Southeastern Europe. Increasing to a gale from ENE on our southeastern coasts later.

Barometer highest, 30.2 in. to 30.1 in. in an anticyclone lying over the northern part of our islands and south of Scandinavia; (2) 30.1 in. and more to 30.0 in. in another system over southern Russia and the Black Sea. Lowest (1) 29.5 in. and less, in a depression over the Bay of Biscay and west of France; (2) 29.8 in. and less, over the White Sea. Shallow disturbances over Germany — secondary, to the system over western France. Rising over Norway later.

### Remarks on the Weather for 24 hours ending 8 am on 26<sup>th</sup> OCT. 1891.

Weather in morning fine and bright over Portugal, Ireland and Scotland; fair over Scandinavia and the Gulf of Bothnia and Finland; dull and gloomy over England and north Germany, central Europe and southern Russia with fog or haze in many places. Raining and very unsettled over France and at some stations in the Netherlands and Algeria. Rain later over France and all the southern parts of our islands — amounts small at English stations, but large in France (1.4 in. at Nice). Aurora at Uluk in evening.

Temperature changing fitfully. Much lower in Scotland than of late. Morning reading 70° or more in Corsica, Sardinia, Sicily and Malta and exceeding 60° over southeastern Europe and at several Mediterranean stations. Below 50° over our islands, northern Europe and southern Russia, and as low as (1) 21° at Archangel, 31° at Haparanda; (2) 29° at Parsonstown, 34° at Naiv, 38° at Ardrossan, 36° at Liverpool, 39° at York; (3) 39° at Nikolaioff, 40° at Kiuff, 44° at Breslau and Munich. Changing very irregularly later.

Wind light and very variable over the west and north of our islands and over central and southeastern Europe, mainly NW<sup>3</sup> over the Baltic. A well-marked cyclonic circulation over France, the Bay of Biscay and Spain — gales from NW<sup>3</sup> at Biarritz and from ESE<sup>2</sup> at C. Sicis, moderate but freshening ENE<sup>3</sup> winds in the Channel and east of England. Latter winds becoming strong later and blowing a gale in the Straits of Dover.

Barometer, highest 30.1 in. and more to 30.0 in. in a large anticyclone over southeastern Europe; 30.0 in. to 29.9 in. in another of irregular form over Scotland and southern part of Norway and Sweden. Lowest 29.2 in. and less in a depression over northern Russia — 29.3 in. and less in another — well marked — lying over the Pyrenees, to which region it had advanced from the Algerian coast. Latter system filling up over France later but new one advancing quickly towards that country from the W.S.W.

#### EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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

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

„ Weekly

„ £1 10 0



# DAILY WEATHER REPORT.

for *Wednesday, 28<sup>th</sup> October, 1891.*  
 Issued by the Meteorological Office, 63, Victoria Street, London. *R. H. SCOTT, Secretary.*

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
	Reading at 32° F. and Sea Level.	Dry.	Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...	30.23	14	Z	0	c	30.36	+ .27	8	8	- 8	N	2	bc	*	32	?	-
	Hernösand ...	30.26	28	NW	2	b	30.30	+ .23	33	31	- 4	Z	0	0	*	43	23	-
	Stockholm ...	30.17	36	N	4	0	30.21	+ .11	34	32	+ 2	NW	2	0	*	39	27	-
	Wisby ...	30.13	42	N	9	c	30.18	+ .10	38	36	- 2	ENE	4	c	*	43	36	0.04
	Bodö ...	30.12	35	ESE	2	S	30.22	+ .11	33	31	- 6	E	2	b	*	39	32	-
	Christiansund	30.28	47	WNW	4	0	30.31	- .01	46	44	+ 2	WNW	3	r	4	?	44	0.24
	Skudesnaes ...	30.37	40	ENE	1	b	30.35	+ .04	42	40	+ 3	NW	4	c	2	?	37	-
	Christiania Fjord (Fæder)	30.32	44	N	1	b	30.26	- .04	42	40	+ 3	WNW	1	c	1	45	39	-
	Skagen (The Scaw)	30.31	46	NNE	4	b	30.26	- .00	41	39	- 1	W	1	c	0	46	39	-
	Fanö ...	30.34	34	NE	3	b	30.34	+ .17	31	30	- 6	NW	1	b	*	46	30	-
BRITISH ISLANDS.	Sumburgh Head	30.39	43	Z	0	c	30.36	- .01	44	42	- 1	Z	0	0	2	50	41	-
	Stornoway ...	30.29	41	Z	0	b	30.29	- .00	32	32	- 13	Z	0	f	2	51	29	-
	Wick ...	30.38	45	S	2	b	30.34	- .03	46	44	0	S	3	bc	2	47	44	-
	Nairn ...	30.34	39	Z	0	b	30.33	- .01	30	29	- 13	Z	0	b	0	50	25	-
	Aberdeen ...	30.39	45	ESE	2	c	30.39	+ .03	43	41	- 3	S	2	bcmw	3	49	34	-
	Leith ...	30.32	47	E	2	b	30.36	+ .07	43	42	- 6	NE	1	0	*	50	40	-
	Shields ...	30.28	50	E	2	0	30.33	+ .10	49	45	+ 1	ESE	3	c	4	52	46	-
	Spurn Head ...	30.20	51	ENE	5	bc	30.25	+ .16	49	46	- 2	E	5	c	4	53	48	-
	York ...	30.24	48	E	1	b	30.31	+ .15	41	40	- 6	NE	1	bc	*	54	37	-
	Loughborough	30.14	47	E	2	bc	30.22	+ .17	37	36	- 12	NE	1	bcmw	*	53	37	-
GERMANY & HOLLAND.	Ardrossan ...	30.28	46	ENE	2	bcm	30.31	+ .06	41	41	- 4	ENE	3	bcm	2	51	39	-
	Malin Head ...	30.18	50	E	6	b	30.22	+ .03	46	43	- 2	SE	4	c	2	50	44	-
	Mullaghmore ...	30.16	48	E	6	b	30.18	+ .01	46	44	+ 1	ENE	5	c	3	51	44	-
	Belmullet ...	30.13	47	ESE	3	0	30.14	- .00	46	44	+ 2	E	1	0	*	52	43	-
	Donaghadee ...	30.22	51	E	6	b	30.27	+ .06	48	46	0	ESE	5	c	4	53	47	-
	Liverpool (Bidston)	30.18	48	ENE	4	0	30.25	+ .14	43	40	- 5	E	2	b	2	53	41	-
	Holyhead ...	30.11	51	E	6	cq	30.18	+ .09	46	43	- 3	E	4	b	4	54	45	-
	Parsonstown ...	30.08	51	NE	1	0	30.14	+ .08	47	45	- 2	Z	0	0	*	53	44	-
	Valencia ...	30.01	53	E	3	og	30.08	+ .06	52	50	+ 3	E	2	og	2	53	48	-
	Roche's Point...	30.02	51	E	5	dm	30.09	+ .07	51	49	0	E	5	omw	4	52	49	0.05
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd)	30.01	53	ENE	3	bc	30.10	+ .18	47	45	- 5	E	4	bc	3	54	47	-
	Scilly ...	29.85	55	ENE	6	0	29.94	+ .14	54	53	- 1	ENE	6	0	4	56	53	-
	Prawle Point ...	29.91	54	NE	6	0	30.02	+ .18	50	49	- 3	NE	7	og	5	55	49	-
	Jersey (St. Aubin's)	29.85	56	NE	5	bcm	29.95	+ .16	53	51	- 2	ENE	6	omw	4	61	52	-
	Hurst Castle ...	29.97	54	ENE	5	og	30.07	+ .17	49	49	- 6	ENE	7	c	3	56	49	-
	Dungeness ...	29.98	53	E	6	0	30.09	+ .19	48	46	- 7	E	8	0	6	55	47	-
	London ...	30.05	51	ENE	4	0	30.15	+ .16	47	44	- 4	E	3	bc	*	55	45	-
	Oxford ...	30.11	48	ENE	3	0	30.18	+ .19	44	41	- 7	ENE	3	bc	*	52	43	-
	Cambridge ...	30.12	48	E	1	c	30.21	+ .17	42	41	- 9	E	1	b	*	53	38	0.01
	Yarmouth ...	30.10	51	ENE	6	cq	30.25	+ .23	47	45	- 5	E	6	b	6	55	44	-
PENINSULA.	Cuxhaven ...	30.20	45	ENE	3	b	30.30	+ .29	44	40	- 3	NE	2	b	*	49	41	-
	Berlin ...	30.17	44	NE	4	b	30.26	+ .35	36	35	- 12	N	2	b	*	52	34	-
	Wiesbaden ...	*	*	*	*	*	30.14	+ .23	43	39	- 11	NE	3	bc	*	54	41	-
	Munich ...	30.03	45	NE	3	r	30.02	+ .09	39	37	- 8	NE	6	0	*	54	36	0.04
	The Helder ...	30.25	46	ENE	5	b	30.31	+ .22	42	39	- 8	E	2	b	3	50	41	-
	Brussels (9 a.m.)	*	*	*	*	*	30.14	+ .19	37	36	- 13	ENE	5	b	*	50	35	-
	Cape Gris Nez	29.97	50	NE	5	m	30.06	+ .18	39	37	- 14	E	5	b	5	54	37	-
	Paris ...	29.91	56	NE	2	b	29.97	+ .12	44	42	- 5	NE	3	b	*	66	43	-
	Brest ...	?	57	E	2	b	?	?	253	52	- 1	E	3	b	2	64	52	-
	Lorient ...	29.75	60	ENE	3	0	29.81	+ .11	53	51	0	ENE	4	bc	3	61	52	-
PENINSULA.	Rochefort ...	29.67	56	ESE	3	0	29.65	- .00	53	51	+ 2	E	5	0	*	61	48	0.04
	Belfort ...	?	47	?	?	c	?	?	45	40	- 3	NE	?	c	*	55	43	-
	Lyons ...	29.81	55	N	1	bc	29.75	- .12	47	46	- 3	N	2	0	*	60	46	-
	Nice ...	29.83	53	E	4	0	29.57	- .37	61	48	+ 8	NE	6	c	5	61	53	-
	Perpignan ...	?	?	?	?	?	?	?	?	?	?	?	?	*	?	?	-	
	Biarritz ...	29.61	58	E	1	0	29.62	+ .03	54	52	+ 1	E	3	0	0	61	50	-
PENINSULA.	Corunna ...	*	*	*	*	*	?	?	?	?	?	?	?	?	?	?	?	-
	Lisbon ...	29.70	59	W	2	bc	29.78	+ .15	58	56	+ 1	WNW	3	0	5	64	57	0.08

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

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



# WEATHER CHARTS

for 8 a.m. on Wednesday, 28<sup>th</sup> October, 1891.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

— forces above 10; — forces 8 to 10;

— forces 5 to 7; — forces 1 to 4.

— dead calm.

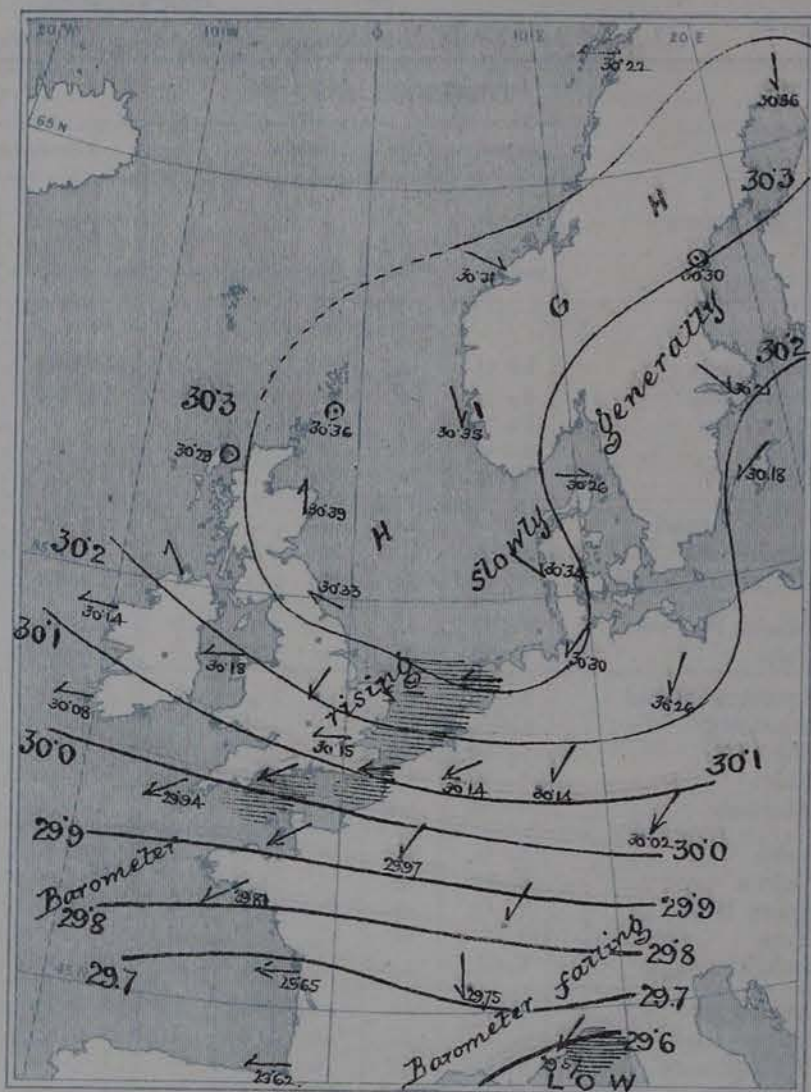
**SEA DISTURBANCE**—Where considerable, is shown thus:

— Rough. — High.

## MEAN HEIGHT OF THE BAROMETER

at 8 a.m. for the month of October  
During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
Samburgh Head	29.726
Stornoway	29.756
Wick	29.763
Nairn	29.779
Aberdeen	29.793
Leith	29.822
Shields	29.846
Spurn Head	29.867
York	29.882
Loughborough	29.904
Ardrossan	29.891
Mullaghmore	29.886
Donaghadee	29.880
Holyhead	29.872
Liverpool	29.879
Parsonstown	29.897
Valencia	29.896
Roche's Point	29.892
Pembroke	29.888
Scilly	29.910
Prawle Point	29.931
Jersey	29.925
Hurst Castle	29.923
Dover	29.918
LONDON	29.923
Oxford	29.924
Cambridge	29.912
Yarmouth	29.894



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

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

**WEATHER**—is shown by Letters of the Beaufort Scale.

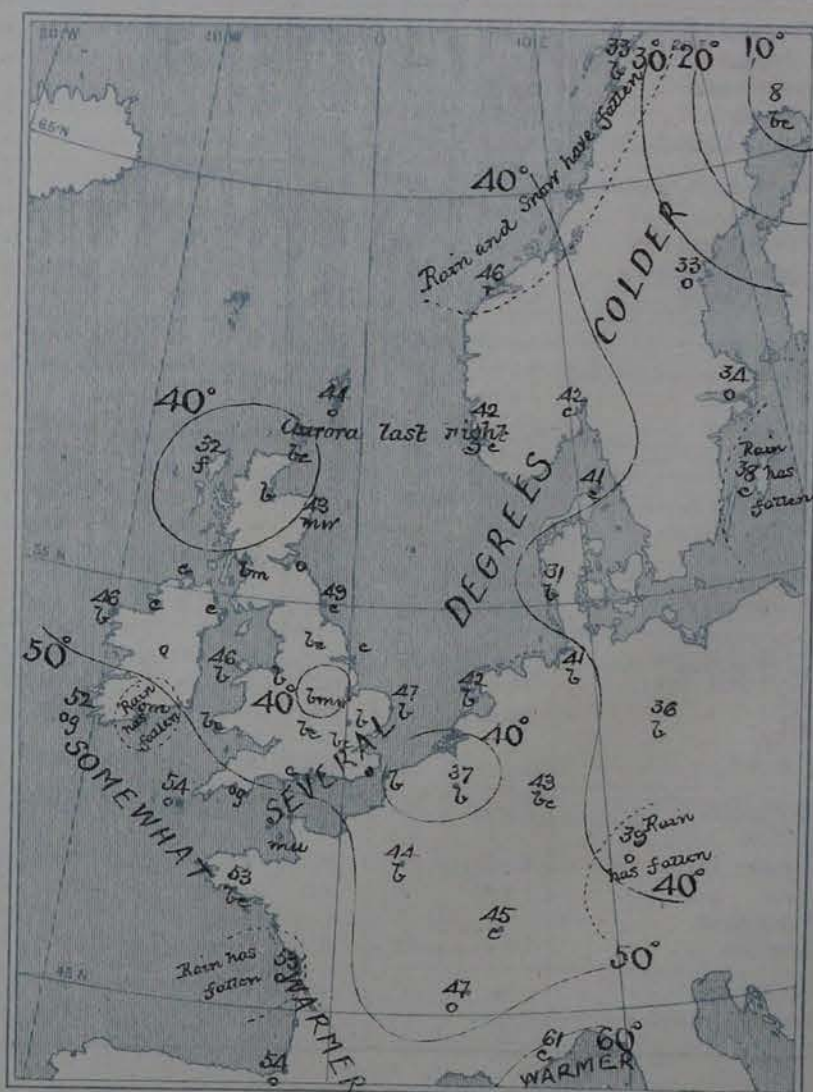
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of October.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Samburgh Head	49.8	41.6	46.0	44.3	4.27
Stornoway	51.0	40.5	45.6	44.5	5.04
Wick	51.7	40.5	46.3	44.6	3.02
Nairn	51.9	40.8	44.8	42.9	2.38
Aberdeen	52.5	41.4	45.6	43.6	2.87
Leith	54.7	41.8	46.7	44.9	1.97
Shields	55.2	42.7	47.2	45.4	2.48
Spurn Head	53.3	45.7	48.8	47.3	2.27
York	54.6	41.4	45.9	44.5	2.60
Loughborough	55.7	41.1	45.9	44.6	2.80
Ardrossan	53.7	43.7	47.8	45.8	3.87
Mullaghmore	54.2	45.7	49.1	46.0	4.75
Donaghadee	53.6	43.6	47.8	46.6	3.14
Holyhead	54.7	47.3	50.3	48.3	4.31
Liverpool	53.8	44.7	47.8	45.8	3.46
Parsonstown	54.8	41.0	46.2	44.5	3.16
Valencia	56.6	46.8	51.4	49.2	5.88
Roche's Point	56.0	46.1	50.2	48.3	4.09
Pembroke	54.9	48.0	51.2	49.2	3.96
Scilly	56.6	50.2	53.7	51.6	3.70
Prawle Point	56.7	46.2	51.2	49.6	3.60
Jersey	58.2	48.6	53.3	50.7	4.45
Hurst Castle	57.1	45.8	50.8	49.2	3.28
Dover	56.1	46.2	50.2	48.2	3.22
LONDON	56.7	42.7	47.5	45.9	2.57
Oxford	56.5	42.2	46.2	44.9	2.56
Cambridge	56.5	41.0	46.4	45.3	2.27
Yarmouth	54.3	44.6	49.0	47.6	2.92

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.5 mm and upwards, in a large anticyclone lying over the North Sea, the northern parts of Great Britain, and the greater part of Scandinavia.  
Lowest, 29.6 mm and less, in a depression lying over the Gulf of Genoa.

Gradients moderate over France and the Channel, but slight elsewhere.

Barometer rising in most parts of Western Europe, but falling decidedly in the south of France.

## TEMPERATURE

Highest, 61° at Nice, 58° at Lisbon, 54° at Seilly, and Biarritz, and 53° at Jersey, Lorient, and Rochefort.

Lowest, 8° at Hafslunda, 30° at Naurn, 31° at Tams, 32° at Stomoway, 33° at Bodø and Henningsand, and 34° at Stockholm.

A considerable fall of temperature has taken place over Great Britain.

## WIND

E or NE over the greater part of Western Europe, strong in force over the Channel and southeast coasts of England, with a gale at Dungeness.  
Light from the S.W. in the east of Scotland, and from the NW at most of the Scandinavian stations.

## WEATHER

Fine in most places, but dull over the Channel and south of Ireland, as well as over the southern part of France and Germany.  
Fog is reported at Stomoway and rain at Christiansund.

Scarcely any rain fell yesterday over our Islands and France. Aurora was seen at Skudernas and Wick.

## SEA

Rough off the southeast of England and rather rough at Hvaler Point, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The large anticyclone seems to be still spreading southwards, and fair weather seems likely to continue over England, with a further fall of temperature over England.

## FORECASTS

For the 24 hours ending at NOON on 29<sup>th</sup> OCT<sup>r</sup> 1891.

### DISTRICTS.

### FORECASTS.

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

Light breezes, chiefly S<sup>W</sup>; fine generally.

E<sup>W</sup> and SE<sup>W</sup> winds, light or moderate; fine generally.

Same as No 5

Same as No 2.

E<sup>W</sup> winds, moderate inland, strong on coast; fair generally, colder.

### DISTRICTS.

### FORECASTS.

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

E<sup>W</sup> winds, light or moderate; fine generally.

E<sup>W</sup> winds, strong; cloudy, slight rain locally.

Same as No 6 and 7

Same as No 8.

### WARNINGS.

None issued

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



# YESTERDAY'S 2 P.M. REPORTS.

		THER:		WIND						THER:		WIND					
	BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA		
Skudesnaes ...	30.36	53	45	SSW	1	b	2	Holyhead ...	30.11	52	49	E	5	c	5		
Sumburgh Head ...	30.39	46	43	E	1	c	2	Valencia ...	30.00	53	51	ENE	4	cm	4		
Stornoway ...	30.30	51	50	S	3	b	3	Scilly ...	29.84	56	52	ENE	5	c	4		
Aberdeen ...	30.37	48	44	E	3	c	5	Jersey ...	29.84	60	56	ENE	4	b	3		
Shields ...	30.26	50	47	NE	3	c	4	Dungeness ...	29.92	54	53	E	6	o	5		
Ardrossan ...	30.27	52	50	ENE	2	b	1	London ...	30.03	54	51	ENE	3	o	8		
Malin Head ...	30.20	50	46	ESE	5	b	3	Yarmouth ...	30.09	52	49	ENE	6	og	6		
Mullaghmore ...	30.16	51	47	ENE	6	bc	4	Rochefort ...	29.60	59	57	ENE	4	o	7		
Belmullet ...	30.11	51	44	E	2	o	*										

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

Weather cloudy or overcast over all the more southern parts of the United Kingdom, as well as over the greater part of Russia and central and southern Europe, rain falling in the south and east of England, and various parts of Germany and France, and snow at Krasnoe and Petersburg. Some improvement taking place later in the south of our Islands, but weather remaining dull. Aurora seen at Skudesnaes and Wick at night.

Temperature highest 70° at Malta, 69° at Cagliari, 68° at Sanguinaria, Brindisi, and Algiers, and 65° at Palermo; above 60° at most of the Mediterranean and Adriatic stations, and as high as 55° in the English Channel. Lowest 16° at Apurandaz, 25° at Uleaborg, 26° at Archangel, and 32° at Stockholm, Petersburg and Moscow, below 40° over Sweden and the whole of northern and central Russia. Daily maxima below 55° in most parts of the United Kingdom, sharp frost occurring in the north of Scotland at night.

Wind E<sup>3</sup> or NE<sup>3</sup> over the greater part of Western Europe, as well as over Denmark, North Germany, and the Baltic, strong to a gale in force over the Channel and southeast of England, and also at some of the Baltic stations. Light or moderate from the NW<sup>2</sup> over Scandinavia and the Gulf of Finland, but S<sup>3</sup> over the southern part of Russia; variable over Italy, Austria, and Algeria. E<sup>3</sup> winds subsiding a little in the southeast of England during day, but still blowing strongly.

Barometer highest 30.3 ins. and upwards in an anticyclone lying over Scotland and the southern half of Norway and the northern part of the North Sea. Lowest 29.6 ins. and less, in two depressions— one lying over the north of Spain, the other off the Algerian coast, 29.7 ins. and less, in a third system over Galicia. Anticyclone in north subsequently spreading slowly southwards, and barometer rising in nearly all parts of Western Europe.

### EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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

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

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# DAILY WEATHER REPORT.

for *Thursday, 29<sup>th</sup> October, 1891.*  
 Issued by the Meteorological Office, 63, Victoria Street, London. *R. H. SCOTT, Secretary.*

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 1.)	SHADE TEMP.			
	Reading at 32° F. and Sea Level.	Dry.	Dirac.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirac.	Force. (0 to 12.)			Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.	Haparanda ...	30.51	7	Z	0	b	30.54	+ 18	-1	-7	-9	Z	0	f	*	19	?	-
	Hernösand ...	30.49	27	Z	0	b	30.54	+ 24	23	22	-10	Z	0	f	*	36	?	-
	Stockholm ...	30.24	32	N	4	0	30.37	+ 16	29	27	-5	N	2	c	*	37	29	-
	Wishby ...	30.18	37	NNE	8	S	30.28	+ 10	35	32	-3	NNE	4	S	*	41	32	0.16
	Bodö ...	30.28	31	E	4	b	30.31	+ 09	33	30	0	E	4	0	2	34	28	-
	Christiansund	30.34	45	WNW	3	0	30.39	+ 08	45	42	-1	SW	2	c	3	48	39	0.16
	Skudesnaes ...	30.34	43	ESE	2	b	30.43	+ 08	39	38	-3	NE	1	b	1	50	36	-
	Christiana Fjord (Færder)	30.30	46	Z	0	c	30.50	+ 24	38	35	-4	NNE	3	T	1	46	37	0.04
	Skagen (The Scaw)	30.28	44	E	3	b	30.46	+ 20	40	34	-1	ESE	2	0	1	48	37	-
	Fanö ...	30.28	38	S	1	b	30.36	+ 02	35	34	+4	NNE	2	b	*	48	31	-
BRITISH ISLANDS.	Sumburgh Head	30.34	44	Z	0	b	30.39	+ 03	46	44	+2	Z	0	0	1	49	43	-
	Stornoway ...	30.32	42	Z	0	f	30.42	+ 13	39	38	+7	Z	0	f	2	53	30	-
	Wick ...	30.35	46	S	2	b	30.43	+ 09	36	35	-10	N	2	c	1	52	35	-
	Nairn ...	30.32	34	Z	0	b	30.45	+ 12	28	28	-2	Z	0	b	0	50	24	-
	Aberdeen ...	30.37	46	S	2	b	30.49	+ 10	32	31	-11	WNW	1	bm	2	51	31	-
	Leith ...	30.34	46	ESE	2	b	30.47	+ 11	34	34	-9	SW	1	m	*	53	30	-
	Shields ...	30.34	48	E	1	b	30.45	+ 12	40	39	-9	WSW	1	m	3	52	36	-
	Spurn Head ...	30.29	50	ENE	4	bc	30.41	+ 16	48	43	-1	NE	2	c	3	57	45	-
	York ...	30.32	45	EHE	1	b	30.46	+ 15	38	37	-3	EHE	1	b	*	53	34	-
	Loughborough	30.26	44	EHE	1	b	30.42	+ 20	34	34	-3	Z	0	om	*	52	29	-
GERMANY & HOLLAND.	Ardrossan ...	30.31	45	ENE	3	bm	30.47	+ 16	37	37	-4	N	1	bm	1	51	35	-
	Malin Head ...	30.26	46	SSE	3	bm	30.42	+ 20	41	40	-5	SSE	3	bm	1	50	41	-
	Mullaghmore ...	30.23	48	E	2	b	30.43	+ 25	42	41	-4	ENE	4	b	3	51	41	-
	Belmullet ...	30.23	49	E	1	0	30.40	+ 26	41	40	-5	E	1	b	*	52	41	-
	Donaghadee ...	30.28	51	SSE	3	b	30.45	+ 18	48	46	0	ESE	3	c	2	52	46	-
	Liverpool (Bidston)	30.30	45	E	2	b	30.46	+ 21	41	39	-2	E	2	b	2	51	39	-
	Holyhead ...	30.22	48	E	4	b	30.41	+ 23	41	40	-5	Z	0	bmw	0	51	39	-
	Parsonstown ...	30.20	45	Z	0	b	30.43	+ 29	28	28	-19	Z	0	b	*	53	28	-
	Valencia ...	30.16	51	E	2	bm	30.38	+ 30	44	43	-8	Z	0	bw	1	54	38	-
	Roche's Point...	30.16	49	E	3	0	30.36	+ 27	46	44	-5	E	1	b	3	51	41	-
FRANCE AND BELGIUM.	Pembroke (St. Ann's Rd.)	30.15	49	E	3	b	30.38	+ 28	42	40	-5	ENE	2	b	1	52	40	-
	Scilly ...	30.01	52	ENE	6	c	30.25	+ 31	48	46	-6	ENE	5	c	4	54	46	-
	Prawle Point ...	30.09	50	ENE	5	bc	30.30	+ 28	46	44	-4	ENE	5	b	4	51	44	-
	Jersey (St. Aubin's)	30.00	52	ENE	5	bm	30.23	+ 28	49	46	-4	ENE	4	bm	3	54	47	-
	Hurst Castle ...	30.13	49	ENE	6	b	30.34	+ 27	43	43	-6	NE	4	bm	2	56	40	-
	Dungeness ...	30.11	50	ENE	7	bc	30.31	+ 22	50	47	+2	E	6	b	5	52	46	-
	London ...	30.20	46	ENE	3	b	30.36	+ 21	44	41	-3	ENE	2	cm	*	53	39	-
	Oxford ...	30.26	41	ENE	3	b	30.42	+ 24	36	35	-8	NE	3	b	*	53	34	-
	Cambridge ...	30.26	43	E	2	b	30.41	+ 20	40	39	-2	N	1	c	*	52	32	-
	Yarmouth ...	30.24	48	ENE	6	b	30.34	+ 09	51	47	+4	NNE	4	bc	4	51	44	-
GERMANY & HOLLAND.	Cuxhaven ...	30.32	42	NE	2	b	30.32	+ 02	42	40	+1	NE	3	c	*	46	41	-
	Berlin ...	30.26	41	N	2	b	30.23	- 03	39	38	+3	NW	3	c	*	45	36	-
	Wiesbaden ...	*	*	*	*	*	30.27	+ 13	38	35	-5	NE	2	b	*	48	32	-
	Munich ...	30.11	33	NE	5	b	30.18	+ 16	27	26	-12	NE	5	b	*	43	25	-
	The Helder ...	30.33	45	ENE	2	b	30.36	+ 05	41	40	-1	SSE	1	0	1	46	39	-
	Brussels (9 a.m.)	*	*	*	*	*	30.32	+ 18	32	31	-5	NNE	2	b	*	46	30	-
	Cape Gris Nez	30.11	45	E	6	b	?	?	38	36	-1	ENE	5	b	5	48	37	-
	Paris ...	30.01	46	N	3	b	30.18	+ 21	34	32	-10	NE	3	b	*	53	34	-
	Brest ...	?	52	E	4	b	?	?	45	43	-8	ENE	2	b	2	59	43	-
	Lorient ...	29.92	53	ENE	4	b	30.11	+ 30	44	40	-4	ENE	4	b	2	59	41	-
FRANCE AND BELGIUM.	Rocheport ...	29.82	48	E	6	0	29.96	+ 31	39	37	-14	NE	6	b	*	59	36	-
	Belfort ...	?	44	NE	?	bc	?	?	41	37	-4	NE	?	bc	*	49	34	-
	Lyons ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-
	Nice ...	29.60	52	E	3	T	29.77	+ 20	52	47	-9	NW	1	bc	2	63	50	0.08
	Perpignan ...	29.68	56	N	1	0	29.81	+ 23	49	48	-5	SW	1	bc	*	64	47	0.43
	Biarritz ...	29.74	55	E	2	c	29.87	+ 25	53	50	-1	ESE	2	0	2	59	50	-
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-
GERMANY & HOLLAND.	Lisbon ...	29.89	59	Z	0	b	29.90	+ 12	54	54	-4	NE	4	f	4	64	54	-

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

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



# WEATHER CHARTS

for 8 a.m. on Thursday, 29<sup>th</sup> October, 1891.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP

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

Changes since previous morning are stated in words.

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

→ forces above 10; →→ forces 8 to 10;

→→ forces 5 to 7; →→ forces 1 to 4.

□ = dead calm.

**SEA DISTURBANCE**—Where considerable, is shown thus:

▨ = Rough. ▨ = High.

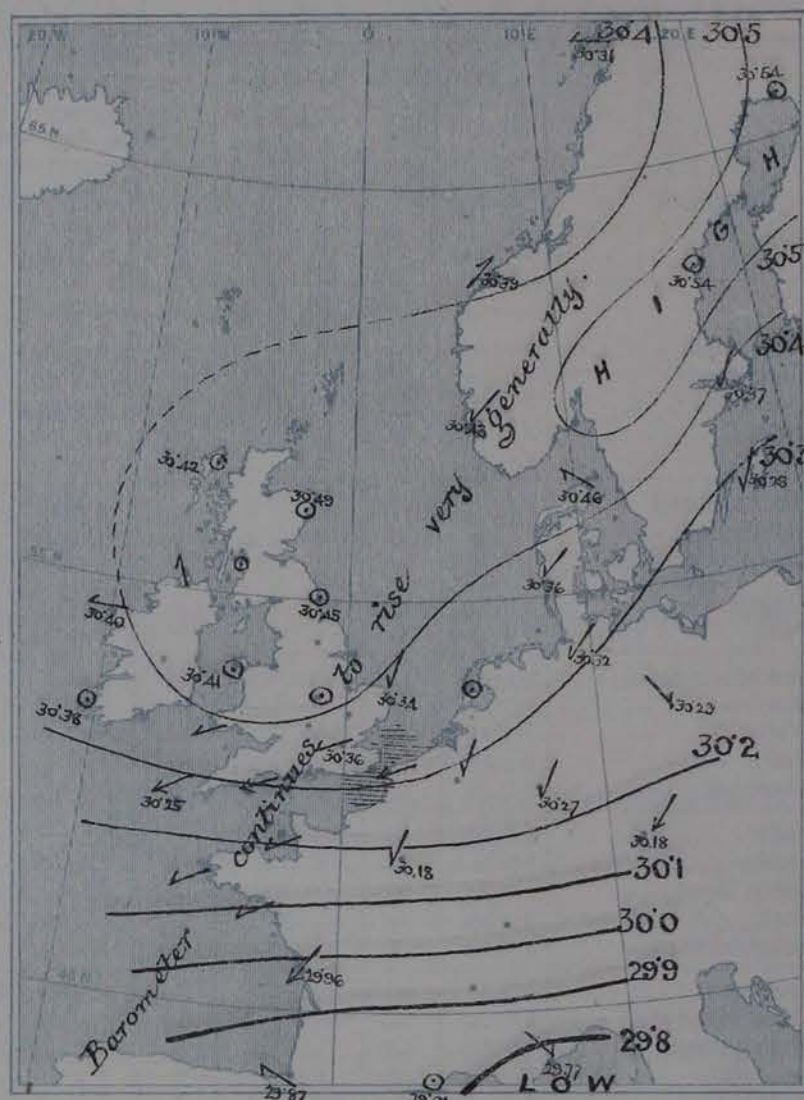
### MEAN HEIGHT OF THE BAROMETER

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

#### STATIONS.

#### MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.726
Stornoway	29.756
Wick	29.763
Nairn	29.779
Aberdeen	29.793
Leith	29.822
Shields	29.846
Spurn Head	29.867
York	29.882
Loughborough	29.904
Ardrassan	29.931
Mullaghmore	29.945
Donaghadee	29.950
Holyhead	29.972
Liverpool	29.979
Parsonstown	29.997
Valencia	29.996
Roche's Point	29.992
Pembroke	29.988
Scilly	29.910
Prawle Point	29.931
Jersey	29.925
Hurst Castle	29.922
Dover	29.915
LONDON	29.923
Oxford	29.924
Cambridge	29.912
Yarmouth	29.894



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

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

**WEATHER**—is shown by Letters of the Beaufort Scale.

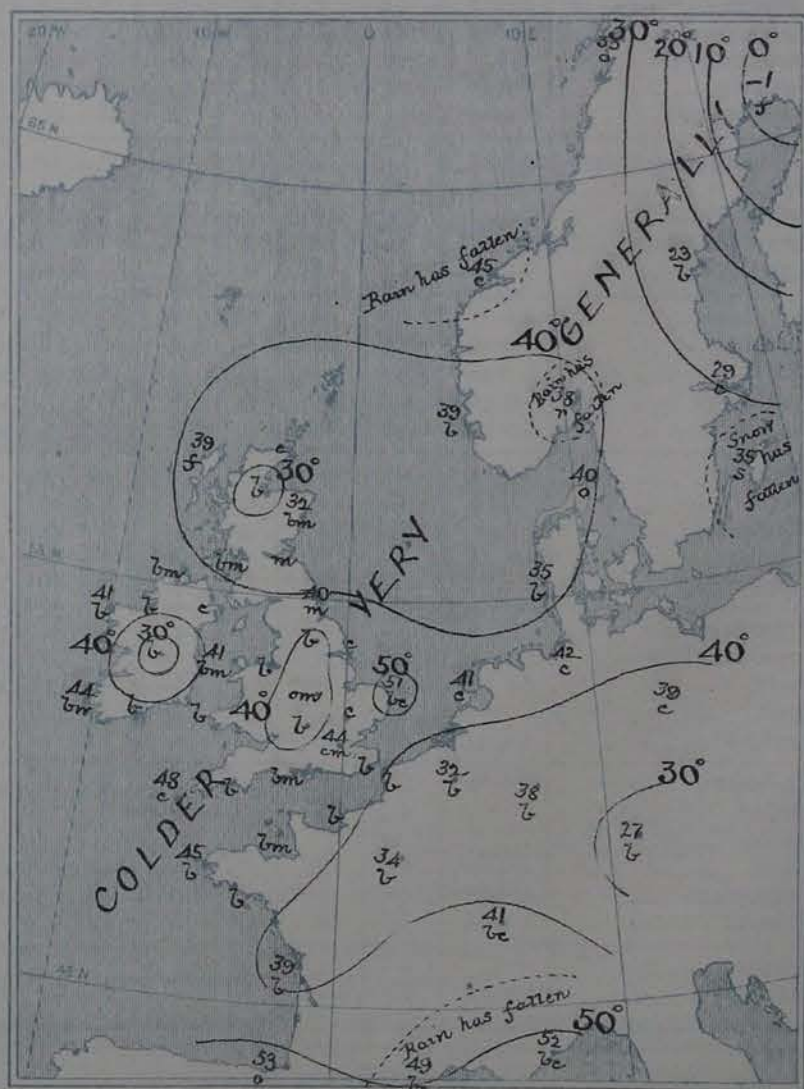
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of October.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	at 8 a.m. Wet.	
Sumburgh Head	49.8	41.6	46.0	44.3	1.27
Stornoway	51.0	40.5	45.6	44.5	5.04
Wick	51.7	40.5	46.3	44.6	3.02
Nairn	51.9	40.8	44.8	42.9	2.38
Aberdeen	52.5	41.4	45.6	43.6	2.87
Leith	54.7	41.8	46.7	44.9	1.97
Shields	53.2	42.7	47.2	45.4	2.48
Spurn Head	53.3	45.7	48.8	47.3	2.27
York	54.5	41.4	45.0	44.5	2.60
Loughborough	55.7	41.1	45.9	44.6	2.80
Ardrassan	53.7	43.7	47.8	45.8	3.87
Mullaghmore	54.2	45.7	49.1	46.9	4.75
Donaghadee	53.6	43.6	47.8	46.6	3.14
Holyhead	54.7	47.3	50.3	48.3	4.31
Liverpool	53.8	44.7	47.8	45.8	3.46
Parsonstown	54.8	41.0	46.2	44.5	3.10
Valencia	56.6	46.8	51.4	49.2	5.88
Roche's Point	56.0	46.1	50.2	48.3	4.09
Pembroke	54.9	48.0	51.2	49.2	3.96
Scilly	56.6	50.2	53.7	51.6	3.70
Prawle Point	56.7	40.2	51.2	49.6	3.60
Jersey	58.2	48.6	53.3	50.7	4.45
Hurst Castle	57.1	45.8	50.8	49.2	3.28
Dover	56.1	46.2	50.2	48.2	3.22
LONDON	56.7	42.7	47.5	45.9	2.57
Oxford	56.5	42.2	46.2	44.9	2.56
Cambridge	56.5	41.0	46.4	45.3	2.27
Yarmouth	54.3	44.6	49.0	47.6	2.92

**NOTE**—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.





# GENERAL SITUATION AT 8 A.M.


PRESSURE	<p>Highest, 30.40 in. to 30.55 in. in a large anticyclone covering the greater part of our Islands, Scandinavia, and the North Sea.</p> <p>Lowest, 29.8 in. and less, in the extreme south of France.</p> <p>Gradients slight. Barometer rising generally, but falling in North Germany.</p>
TEMPERATURE	<p>Highest, 54° at Harlow, 53° at Biarritz, 52° at Nice, 51° at Yarmouth and 50° at Birmmgham.</p> <p>Lowest, -1° Fahr. at Haparanda, 23° at Helsingfors, 27° at Munich, 28° at Nain and Parosutor, and 29° at Stockholm.</p> <p>Frost occurred last night over the inland parts of the United Kingdom, at Nain the thermometer in the screen fell to 24°.</p>
WIND	<p>NE<sup>3</sup> or E over the greater part of our area, but light from the W. in the east of Scotland, variable in the west of Norway, and calm in the north of Sweden.</p> <p>At some of the Channel stations the E<sup>3</sup> wind continues to blow freshly or strongly.</p>
WEATHER	<p>Fine generally, but hazy in places. Rain is falling at Yander and snow at Nisby.</p> <p>No rain fell yesterday at any of our own stations, but small amounts were recorded in some parts of Scandinavia, and larger quantities in the extreme south of France.</p>
SEA	<p>Light or smooth generally, but rather rough in the Straits of Dover.</p>
PROBABLE CHANGES IN SYSTEM NOW PREVALENT	


The anticyclone continues to spread southwards and the wind in the Channel is therefore likely to fall light.  
 Fog is probable in many of the inland districts.

## FORECASTS

For the 24 hours ending at NOON on 30<sup>th</sup> OCT<sup>r</sup> 1891.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	Light Variable airs; fine generally but local fogs.	6 SCOTLAND WEST	Same as No 0 to 2.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	E <sup>3</sup> winds, moderate, fair generally.
3 ENGLAND EAST	NE <sup>3</sup> winds, light; fine generally, but local fogs, frost at night.	9 IRELAND NORTH	Light breezes, chiefly E <sup>3</sup> ; fine generally.
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	NONE ISSUED.

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

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	30.33	49	45	nnw	4	c	2		Holyhead ...	30.18	51	45	E	4	b
Sumburgh Head ...	30.35	47	45	Z	0	0	2		Valencia ...	30.11	54	51	E	4	o m
Stornoway ...	30.30	53	50	Z	0	6	2		Scilly ...	29.98	54	51	ENE	6	0
Aberdeen ...	30.36	50	43	S	2	6	3		Jersey ...	29.99	54	51	NE	5	bm
Shields ...	30.35	50	46	E	3	c	4		Dungeness ...	30.09	51	48	ENE	6	c
Ardrossan ...	30.30	50	49	ENE	3	bm	2		London ...	30.17	51	46	ENE	3	6
Malin Head ...	30.22	49	45	SE	4	c	2		Yarmouth ...	30.24	49	46	E	6	6
Mullaghmore ...	30.19	51	47	ESE	5	c	3		Rocheport ...	29.76	58	55	E	6	6
Belmullet ...	30.18	52	49	S	2	0	*								

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

Weather in morning fair generally over the United Kingdom and its neighbourhood including the northern half of France and the western half of Spain, very unsettled over the south of Russia and the Mediterranean, and especially over the northeast of Spain and the south of France, where much rain continued to fall. Weather in latter regions apparently improving later, but 0.4 in of rain falling at Perpignan.

Temperature falling in most places, the only stations having a morning reading of 70° being Malta and Pondiché. Over nearly the whole of Europe morning values of below 60°, those over Germany, Scotland being below 40°, while the lowest of all were found over Ireland and northern Russia, viz. 8° F. at Haparanda, 17° at Uleaborg, 16° at Archangel, 23° at Kuopio, 29° at Helsinki, 34° at St. Petersburg and Moscow. Rising to a little above 55° at a few of the British stations later and to between 55° and 59° in the west of France, but exceeding 60° in the extreme south only. Successive night very cold over the northern and eastern parts of Great Britain.

Wind very light from between N. and NW. over northern Europe, light S<sup>1</sup> to SE<sup>1</sup> in the north of our Islands, mainly E<sup>1</sup> over Ireland and England, strong ENE<sup>1</sup> in the Channel and north of France, N<sup>1</sup> over Germany. Cyclonic circulation of strongest winds prevailing over the Mediterranean.

Barometer highest 30.3 ins. and more to 30.1 ins. in a large anticyclone covering the whole of northwestern Europe and greater part of Germany, 29.9 ins. and more over Asia Minor, and 29.8 ins. and more over the south of Spain. Lowest 29.6 ins. and less, in a depression over the south of Russia, and in another over the Mediterranean, latter system being large and complete. Gradients somewhat steep over France, Switzerland, and South Germany.

### EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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

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

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

„ Weekly „ „ „ £1 10 0 „



# DAILY WEATHER REPORT.

for *Friday, 30<sup>th</sup> October,* 1891.  
 Issued by the Meteorological Office, 63, Victoria Street, London. *R. H. SCOTT, Secretary.*

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
	Reading at 32° F. and Sea Level.	Dry.	Dirac.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirac.	Force. (0 to 12.)		Max.	Min.			
SCANDINAVIA.																		
Haparanda ...	30.27	27	SW	4	b	29.99	- 55	32	31	+ 33	SW	2	c	*	2	-1		
Hernösand ...	30.50	21	NW	2	b	30.30	- 24	36	33	+ 13	S	2	c	*	37	18		
Stockholm ...	30.50	32	N	4	o	30.51	+ 14	31	28	+ 2	W	2	c	*	36	27		
Wisby ...	30.44	36	NE	6	s	30.53	+ 25	35	32	0	E	4	s	*	37	30	0.12	
Bodö ...	30.23	42	SW	6	t	29.97	- 34	48	46	+ 15	WSW	6	t	+	?	32	0.12	
Christiansund	30.43	45	WSW	4	c	30.38	- 01	47	43	+ 2	WSW	6	o	4	47	45	0.08	
Skudesnaes ...	30.52	44	Z	0	t	30.57	+ 14	42	41	+ 3	E	1	c	1	47	39	0.71	
Christiania Fjord (Færder)	30.54	39	Z	0	o	30.54	+ 04	37	35	- 1	NNW	2	b	1	39	37		
Skagen (The Scaw)	30.55	40	Z	0	o	30.56	+ 10	39	36	- 1	WSW	1	o	0	40	37		
Fanö ...	30.57	37	NE	2	c	30.62	+ 26	35	34	0	Z	0	c	*	45	34		
Sumburgh Head	30.46	43	NNW	1	o	30.51	+ 12	49	49	+ 3	SW	1	o	2	49	42		
Stornoway ...	30.48	48	Z	0	o	30.56	+ 14	46	45	+ 7	Z	0	f	2	48	37		
Wick ...	30.53	45	NW	1	o	30.56	+ 13	45	44	+ 9	NW	1	o	1	45	36		
Nairn ...	30.52	40	ESE	1	b	30.57	+ 12	44	42	+ 16	SW	1	o	1	48	27		
Aberdeen ...	30.55	38	NW	1	b	30.63	+ 14	42	40	+ 10	W	1	cm	1	48	32		
Leith ...	30.52	36	Z	0	m	30.63	+ 16	38	38	+ 4	NW	1	f	*	47	31		
Shields ...	30.53	47	Z	0	Om	30.59	+ 14	44	42	+ 4	NW	1	f	2	49	38		
Spurn Head ...	30.49	48	N	4	c	30.58	+ 17	47	46	- 1	WSW	1	cm	2	51	45	0.01	
York ...	30.52	42	N	1	b	30.62	+ 16	36	36	- 2	N	1	bc	*	49	33		
Loughborough	30.49	46	NNE	1	o	30.57	+ 15	41	40	+ 7	Z	0	cm	*	51	34	0.01	
Ardrossan ...	30.52	44	EHE	1	bm	30.63	+ 16	36	36	- 1	NE	3	b fw	1	51	34		
Malin Head ...	30.51	45	SSE	1	bm	30.59	+ 17	42	41	+ 1	SSE	2	bm	0	49	41		
Mullaghmore ...	30.52	48	NE	1	bw	30.58	+ 15	40	40	- 2	E	4	f	2	52	38		
Belmullet ...	30.52	46	E	1	b	30.54	+ 14	41	40	0	E	2	f	*	56	37		
Donaghadee ...	30.53	44	ESE	2	b	30.61	+ 16	46	45	- 2	ESE	3	m	1	52	42		
Liverpool (Bidston)	30.53	44	EHE	2	b	30.62	+ 16	39	38	- 2	NE	1	of	1	50	37		
Holyhead ...	30.50	48	Z	0	b	30.57	+ 16	42	41	+ 1	E	3	bw	2	55	40		
Parsonstown ...	30.49	44	Z	0	b	30.56	+ 13	31	30	+ 3	Z	0	f	*	55	27		
Valencia ...	30.46	45	NNW	1	bm	30.52	+ 14	39	38	- 5	Z	0	f	1	56	33		
Roche's Point...	30.47	46	E	2	b	30.52	+ 16	44	43	- 2	E	3	om	3	53	38		
Pembroke (St. Ann's Hd.)	30.48	46	NE	3	b	30.53	+ 15	42	41	0	EHE	3	b	2	52	39		
Seilly ...	30.33	50	EHE	5	b	30.41	+ 16	50	49	+ 2	EHE	5	b	2	53	46		
Prawle Point ...	30.41	50	EHE	5	bc	30.48	+ 18	48	47	+ 2	EHE	5	c	4	50	45		
Jersey (St. Aubin's)	30.33	51	NE	5	bm	30.47	+ 24	47	43	- 2	E	3	bm	3	53	42		
Hurst Castle ...	30.42	47	EHE	4	bm	30.54	+ 20	41	41	- 2	NE	3	bw	2	54	40		
Dungeness ...	30.36	51	EHE	4	bc	30.55	+ 24	43	39	- 7	E	6	b	4	54	42		
London ...	30.44	48	EHE	2	c	30.57	+ 21	38	38	- 6	E	1	fw	*	54	36		
Oxford ...	30.51	39	NE	2	b	30.59	+ 17	39	39	+ 3	NE	1	f	*	53	36		
Cambridge ...	30.48	43	NE	1	c	30.61	+ 20	40	40	0	E	1	b	*	55	36		
Yarmouth ...	30.40	51	NE	4	c	30.58	+ 24	46	42	- 5	ESE	4	bc	4	53	43	0.01	
Cuxhaven ...	30.45	41	NE	4	b	30.60	+ 28	38	36	- 4	NE	3	b	*	44	37		
Berlin ...	30.38	35	NNW	3	b	30.50	+ 27	34	33	- 5	N	3	bc	*	43	32	0.04	
Wiesbaden ...	*	*	*	*	*	30.50	+ 23	35	32	- 3	NE	3	b	*	48	32		
Munich ...	30.25	32	Z	0	c	30.42	+ 24	26	25	- 1	NE	5	b	*	39	25	0.04	
The Helder ...	30.53	44	E	2	b	30.66	+ 20	39	38	- 2	ESE	1	bc	1	48	37		
Brussels (9 a.m.)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Cape Gris Nez	30.36	43	EHE	3	b	30.50	?	32	31	- 6	EHE	4	b	3	50	32		
Paris ...	30.30	41	NE	2	b	30.45	+ 27	31	31	- 3	NE	2	b	*	49	31		
Brest ...	?	49	EHE	4	b	?	?	39	37	- 6	E	3	b	2	59	37		
Lorient ...	30.21	51	EHE	5	b	30.33	+ 22	43	38	- 1	EHE	6	b	4	55	41		
Rochefort ...	30.09	47	EHE	5	b	30.15	+ 10	39	35	0	EHE	6	b	*	54	34		
Belfort ...	?	40	NE	3	bc	?	?	36	30	- 5	NE	3	b	*	47	30		
Lyons ...	30.04	41	N	3	b	30.25	*	38	30	*	NNW	3	b	*	47	32		
Nice ...	29.90	53	SW	1	o	30.01	+ 24	46	45	- 6	E	1	b	3	61	45		
Perpignan ...	29.97	55	NW	2	o	30.07	+ 26	47	45	- 2	NE	1	bc	*	64	50		
Biarritz ...	30.01	52	E	2	o	30.04	+ 17	45	43	- 8	SE	3	b	2	55	43		
Cornwall ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	

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, 30<sup>th</sup> October, 1891.

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### EXPLANATION OF MAP

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Changes since previous morning are stated in words.

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— forces above 10; — forces 8 to 10;

— forces 5 to 7; — forces 1 to 4.

☉ = dead calm.

**SEA DISTURBANCE**—Where considerable, is shown thus:

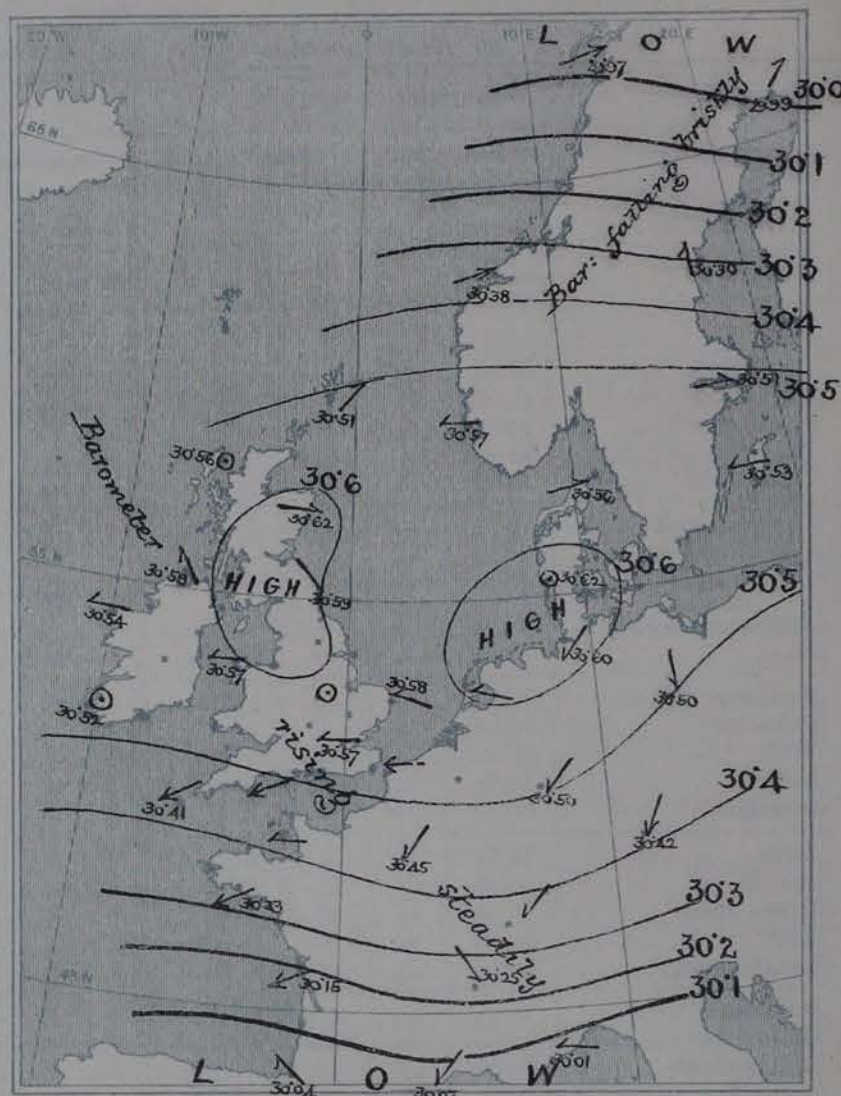
— Rough. — High.

## MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of October

During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.726
Stornoway	29.756
Wick	29.763
Nairn	29.779
Aberdeen	29.793
Leith	29.822
Shields	29.846
Spurn Head	29.867
York	29.882
Loughborough	29.904
Ardrossan	29.831
Mullaghmore	29.845
Donaghadee	29.850
Holyhead	29.872
Liverpool	29.879
Parsonstown	29.897
Valencia	29.896
Roche's Point	29.893
Pembroke	29.888
Scilly	29.910
Prawle Point	29.931
Jersey	29.923
Hurst Castle	29.921
Dover	29.916
LONDON	29.923
Oxford	29.924
Cambridge	29.912
Yarmouth	29.894





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.50 in. to 30.65 in. in an anticyclone covering our Islands, the North Sea, the Netherlands, North Germany, and the south of Scandinavia.  
Lowest, 30.00 in. and less, in the north of Scandinavia and also over Spain.

Gradients moderate over the north of Scandinavia and also over France, but slight elsewhere.

Barometer rising generally, but falling briskly in the north of Scandinavia.

## TEMPERATURE

Highest, (1) 50° at Scilly, 48° at Brest Point, and 47° at Jersey and Perpignan; (2) 49° at Lumburg, 46° at Bodo, and 47° at Christiansund.

Lowest, 26° at Munich, 31° at Baronstom and Paris, 32° at Haparanda and C. J. H. H., and 33° at Lyons.

Ground frost occurred last night over the inland part of England; in London the exposed thermometer fell to 27°.

## WIND

E or NE over England, Ireland, France, Germany, and the Netherlands; fresh or strong in force over the Channel and Bay of Biscay.

Strong from the NW or SW in the west of Norway; light from the same quarters in Sweden and also on the northeast coast of Britain.

## WEATHER

Fine over the greater part of Western Europe, but foggy in many parts of our Islands.

Cloudy or overcast at most of the Scandinavian stations, with rain at Bodo and snow at Narvik.

A little rain fell yesterday in some parts of Germany, and the heavy dew over England yielded appreciable amounts of water in the quag.

## SEA

Moderate on exposed parts of our south and southeast coasts, as well as off the west of Norway, but slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are at present no indications of any important change in the weather over our Islands, but the depressions which are appearing in the far north may possibly cause less settled conditions in the extreme north of Scotland.

## FORECASTS

For the 24 hours ending at NOON on 31<sup>st</sup> OCTOBER 1891.

### DISTRICTS.

### FORECASTS.

- |   |                  |  |
|---|------------------|--|
| 0 | SCOTLAND NORTH   | { Variable or W <sup>3</sup> airs; fair generally, but local fogs. |
| 1 | SCOTLAND EAST    |  |
| 2 | ENGLAND N.E.     | Light Variable airs; fair generally, but local fogs.               |
| 3 | ENGLAND EAST     | Same as N° 5   |
| 4 | MIDLAND COUNTIES | Same as N° 2   |
| 5 | ENGLAND SOUTH    | E <sup>3</sup> winds, light; fine generally, but foggy at night.   |

### DISTRICTS.

### FORECASTS.

- |          |               |  |
|----------|---------------|--|
| 6        | SCOTLAND WEST | Same as N° 2   |
| 7        | ENGLAND N.W.  | Same as N° 5.  |
| 8        | ENGLAND S.W.  | E <sup>3</sup> winds, moderate; fine generally.                |
| 9        | IRELAND NORTH | { E <sup>3</sup> winds, light; fine generally, but local fogs. |
| 10       | IRELAND SOUTH |  |
| WARNINGS |               | None issued.   |

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



# YESTERDAY'S 2 P.M. REPORTS.

		THER:		WIND						THER:		WIND					
	BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA		
Skudesnaes ...	30.49	47	44	WNW	1	c	1	Holyhead ...	30.46	53	48	W	1	b		2	
Sumburgh Head ...	30.43	46	44	WNW	1	o	1	Valencia ...	30.43	55	50	N	1	bm		1	
Stornoway ...	30.47	48	47	Z	0	b	2	Scilly ...	30.33	52	49	EHE	5	bc		4	
Aberdeen ...	30.51	47	42	NW	1	b	1	Jersey ...	30.30	53	47	EHE	5	b		4	
Shields ...	30.49	47	44	WNW	1	c	2	Dungeness ...	30.33	53	50	EHE	5	bc		3	
Ardrossan ...	30.49	51	50	W	1	b	1	London ...	30.39	54	49	EHE	2	bc	*		
Malin Head ...	30.48	48	46	ESE	1	b	1	Yarmouth ...	30.36	53	50	N	4	c		4	
Mullaghmore ...	30.47	52	49	EHE	2	b	2	Rochefort ...	29.98	50	44	EHE	6	b	*		
Belmullet ...	30.49	56	50	W	1	b	*										

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

Weather in morning fine and bright over northern and northwestern Europe generally, but hazy in a few places, changeable in the southeast, dull and unsettled in the south, with rain in places, more particularly in the south of Italy. Rain over Norway later (heavy at Skudenes) and showers at some German stations, much dew over England at night, with local fogs.

Temperature still decreasing in most places, and becoming very low for the time of year. None of the morning readings touching 70°, many of them below 60° at the Mediterranean stations, and most of them below 40° over Europe. Lowest of all (1) -1°F at Haparanda, +13° at Archangel and Uleaborg, 16° at Moscow, 21° at Kuopio, 23° at Helsingfors, 25° at St. Petersburg; (2) 27° at Munich, 29° at Kiev, 32° at Budapest, 34° at Vienna, Hammstadt, and Khar'kov; (3) 28° at Nain and Banströmen, 32° at Bremen, 34° at Paris, and 34° to 38° over Central England. Scarcely touching 55° over any part of England later, but reaching 54° at West, and exceeding 60° in the south of France.

Wind light and anticyclonic over Scandinavia and the north and west of the British Isles; NE<sup>3</sup> moderate over the Baltic and North Germany, NE<sup>3</sup> fresh to strong, in the Channel and Bay of Biscay; variable over Central Europe, NE<sup>3</sup> strong to a gale over the northern half of Italy and the Adriatic, SW<sup>1</sup> to W<sup>2</sup> over Tunis, Sicily and the Balearics. Falling light in the Channel later and anticyclonic air spreading southwards over England.

Barometer highest 30.5 ins. and more to 30.3 ins. in a very large anticyclone covering northern Europe, and the North Sea, and the British Isles. Lowest 29.6 ins. and less in a very complete depression covering the Adriatic, the southern half of Italy and the eastern part of the Mediterranean; gradient moderate to rather steep over southern Europe and the Baltic. Raining slowly over our Islands all day.

### EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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

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

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" Weekly " " " £1 10 0 "



# DAILY WEATHER REPORT.

for *Saturday, 31<sup>st</sup> October, 1891.*  
*Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.*

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.  Reading at 32° F. and Sea Level.	TEMP.  Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 3.)	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 ...	29.79	32	Z	0	b	29.76	- 23	34	33	+ 2	NNW	4	bc	*	36	23	-
	Hernösand ...	30.09	44	Z	0	o	30.12	- 18	50	46	+ 14	N	4	bc	*	?	16	-
	Stockholm ...	30.35	37	N	2	c	30.23	- 28	40	39	+ 9	N	2	bc	*	?	28	-
	Wisby ...	30.43	40	WNW	6	b	30.29	- 24	32	?	- 3	NNW	6	o	*	43	32	-
	Bodö ...	29.94	47	SW	7	r	30.08	+ 11	48	46	0	NSW	7	o	4	48	46	0.35
	Christiansund	30.35	49	NSW	9	r	30.48	+ 10	51	49	+ 4	NSW	8	r	5	50	47	0.12
	Skudesnaes ...	30.58	48	Z	0	o	30.56	- 01	46	45	+ 4	NNW	2	o	1	48	41	-
	Christiania Fjord (Færder)	30.45	44	NSW	3	b	30.42	- 12	42	40	+ 5	N	2	c	1	43	37	-
	Skagen (The Scaw)	30.46	43	WNW	1	b	30.41	- 15	46	45	+ 7	NNW	1	b	0	46	37	-
	Fanö ...	30.58	44	SW	1	c	30.48	- 14	47	46	+ 12	NNW	3	c	*	47	35	-
BRITISH ISLANDS.	Sumburgh Head	30.55	50	N	1	o	30.64	+ 13	49	48	0	N	2	o	2	51	48	-
	Stornoway ...	30.61	50	Z	0	o	30.68	+ 12	43	43	- 3	Z	0	f	2	52	35	-
	Wick ...	30.63	45	NW	1	o	30.68	+ 12	45	45	0	NW	1	o	0	53	45	-
	Nairn ...	30.62	43	Z	0	o	30.69	+ 12	29	29	- 15	Z	0	b	1	52	27	-
	Aberdeen ...	30.67	40	N	1	b	30.73	+ 10	36	35	- 6	NNW	1	bcmw	1	52	32	-
	Leith ...	30.67	38	Z	0	m	30.74	+ 11	36	35	- 2	SSW	1	f	*	48	30	-
	Shields ...	30.67	48	NE	1	o	30.71	+ 12	40	39	- 4	N	1	m	2	49	38	-
	Spurn Head ...	30.63	47	S	3	b	30.67	+ 09	45	42	- 2	NW	2	c	1	51	41	-
	York ...	30.64	47	E	1	c	30.71	+ 09	33	33	- 3	ESE	1	b	*	50	31	-
	Loughborough	30.62	40	NE	1	b	30.68	+ 11	26	25	- 15	NNE	1	bcm	*	55	25	-
GERMANY & HOLLAND.	Ardrossan ...	30.65	42	NNE	1	bcm	30.72	+ 09	38	37	+ 2	NNE	1	bf	0	48	35	-
	Malin Head ...	30.59	46	SSW	3	om	30.62	+ 03	41	40	- 1	SSE	4	bcm	1	49	39	-
	Mullaghmore ...	30.57	45	ESE	4	b	30.60	+ 02	43	41	+ 3	E	5	b	3	49	39	-
	Belmullet ...	30.54	45	E	2	b	30.56	+ 02	42	39	+ 1	SE	3	b	*	53	39	-
	Donaghadee ...	30.62	48	E	2	c	30.69	+ 08	47	45	+ 1	ESE	2	bc	1	52	44	-
	Liverpool (Bidston)	30.64	45	SE	1	bc	30.71	+ 09	38	36	- 1	ESE	1	bcm	2	48	36	-
	Holyhead ...	30.60	44	E	1	b	30.66	+ 09	41	39	- 1	E	1	bw	1	50	40	-
	Parsonstown ...	30.54	40	Z	0	b	30.58	+ 02	39	37	+ 8	Z	0	b	*	48	30	-
	Valencia ...	30.47	50	ESE	2	b	30.45	- 07	47	44	+ 8	E	6	c	5	55	39	-
	Roche's Point...	30.52	50	ESE	4	bc	30.48	- 04	47	44	+ 3	SE	7	c	5	52	43	-
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.52	47	E	3	b	30.57	+ 04	39	37	- 3	E	4	b	3	50	39	-
	Scilly ...	30.37	49	E	6	bc	30.39	- 02	47	45	- 3	E	7	bc	6	54	45	-
	Prawle Point ...	30.46	46	ESE	7	b	30.50	+ 02	46	42	- 2	ESE	7	bcm	6	51	38	-
	Jersey (St. Aubin's)	30.44	46	E	5	b	30.52	+ 05	41	37	- 6	E	7	bcm	5	51	39	-
	Hurst Castle ...	30.55	45	E	6	b	30.60	+ 06	43	43	+ 2	E	6	bcm	3	48	39	-
	Dungeness ...	30.55	44	E	5	bc	30.62	+ 07	41	36	- 2	ESE	4	b	3	46	39	-
	London ...	30.60	42	E	3	b	30.66	+ 09	31	30	- 7	Z	0	f	*	50	30	-
	Oxford ...	30.65	35	Z	0	b	30.69	+ 10	30	29	- 4	NE	1	b	*	50	28	-
	Cambridge ...	30.65	39	E	1	b	30.70	+ 09	34	33	- 6	N	1	o	*	52	28	-
	Yarmouth ...	30.63	46	ESE	3	bv	30.66	+ 08	43	41	- 3	Z	0	bcm	3	47	40	-
GERMANY & HOLLAND.	Cuxhaven ...	30.60	40	NE	2	b	?	?	40	39	+ 2	NSW	2	f	*	42	38	-
	Berlin ...	30.61	38	NNE	3	o	30.60	+ 10	31	30	- 3	N	2	f	*	41	30	-
	Wiesbaden ...	*	*	*	*	*	30.63	+ 13	33	32	- 2	NE	1	c	*	41	30	-
	Munich ...	30.50	28	SW	2	c	30.56	+ 14	22	22	- 4	NE	2	b	*	34	19	-
	The Helder ...	30.72	41	NE	1	bc	30.65	- 01	45	43	+ 6	N	1	c	2	46	39	-
	Brussels (9 a.m.)	*	*	*	*	*	30.67	?	29	28	?	E	1	b	*	41	24	-
	Cape Gris Nez	30.55	35	E	3	b	30.58	+ 08	31	29	- 1	E	2	b	?	?	?	-
	Paris ...	30.50	36	NE	2	b	30.56	+ 11	29	27	- 2	NE	2	b	*	?	28	-
	Brest ...	?	45	E	4	b	?	?	37	34	- 2	SE	5	b	4	55	36	-
	Lorient ...	30.28	46	ESE	6	b	30.34	+ 01	37	32	- 6	ESE	6	b	4	50	36	-
FRANCE AND BELGIUM.	Rochefort ...	30.17	45	E	6	b	30.20	- 05	33	31	- 6	E	6	b	*	54	28	-
	Belfort ...	?	35	NE	6	b	?	?	32	?	- 4	NE	4	b	*	44	27	-
	Lyons ...	30.03	37	N	3	b	30.40	+ 15	28	26	- 5	NNW	3	b	*	44	27	-
	Nice ...	30.13	42	E	3	r	30.25	+ 24	40	36	- 6	E	2	c	5	48	40	0.12
	Perpignan ...	30.13	48	Z	0	c	30.20	+ 13	46	45	- 1	Z	0	o	*	56	45	0.04
	Biarritz ...	30.03	54	E	4	o	30.04	- 00	41	39	- 4	ESE	5	c	2	55	39	-
	Corunna ...	*	*	*	*	*	?	?	?	?	?	?	?	?	?	?	?	-
	Lisbon ...	29.81	62	E	3	r	29.78	?	59	57	?	ESE	3	o	4	64	59	0.08

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

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



# WEATHER CHARTS

for 8 a.m. on Saturday, 31<sup>st</sup> October, 1891.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP

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

Changes since previous morning are stated in words.

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

→ forces above 10; → forces 8 to 10;

→ forces 5 to 7; → forces 1 to 4;

→ dead calm.

**SEA DISTURBANCE**—Where considerable, is shown thus:

— Rough. — High.

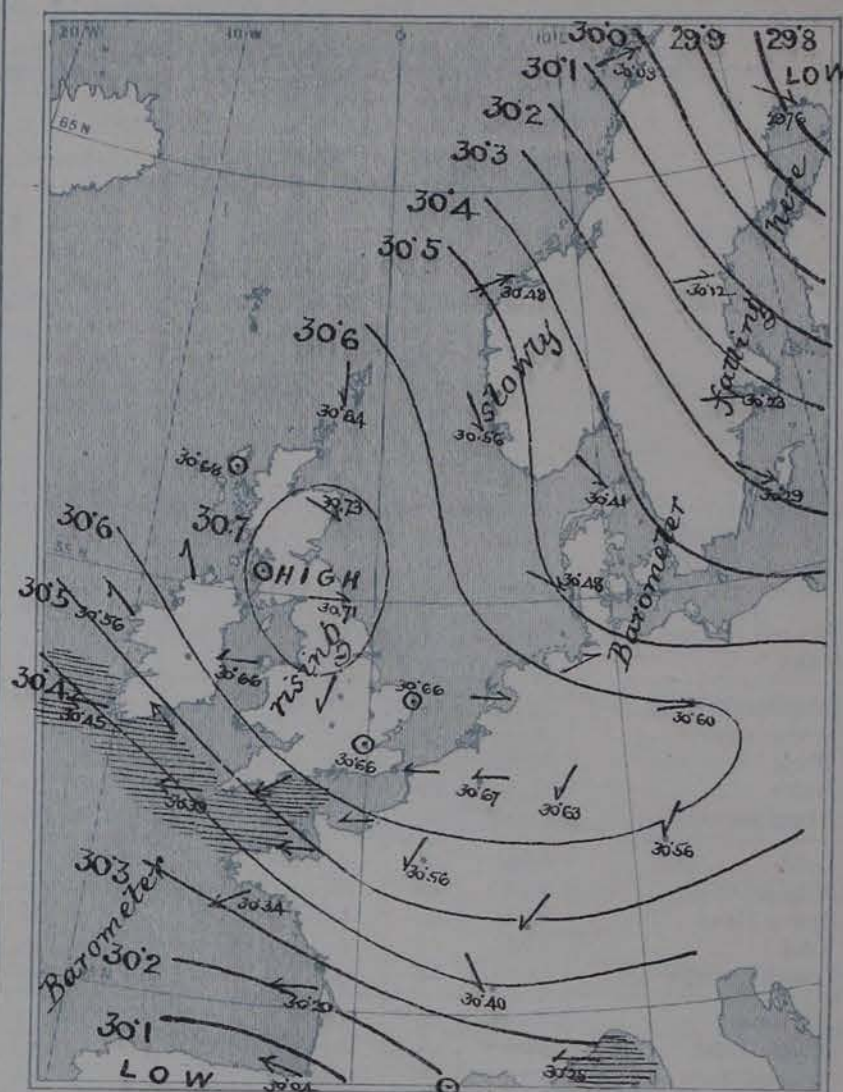
### MEAN HEIGHT OF THE BAROMETER

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

#### STATIONS.

#### MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.726
Stornoway	29.756
Wick	29.763
Nairn	29.779
Aberdeen	29.793
Leith	29.822
Shielda	29.846
Spurn Head	29.867
York	29.882
Loughborough	29.904
Ardrossan	29.831
Mullaghmore	29.845
Donaghadee	29.850
Holyhead	29.872
Liverpool	29.879
Parsonstown	29.897
Valencia	29.898
Roche's Point	29.892
Pembroke	29.888
Scilly	29.910
Prawle Point	29.931
Jersey	29.925
Hurst Castle	29.924
Dover	29.916
LONDON	29.923
Oxford	29.921
Cambridge	29.912
Yarmouth	29.894



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

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

**WEATHER** is shown by Letters of the Beaufort Scale.

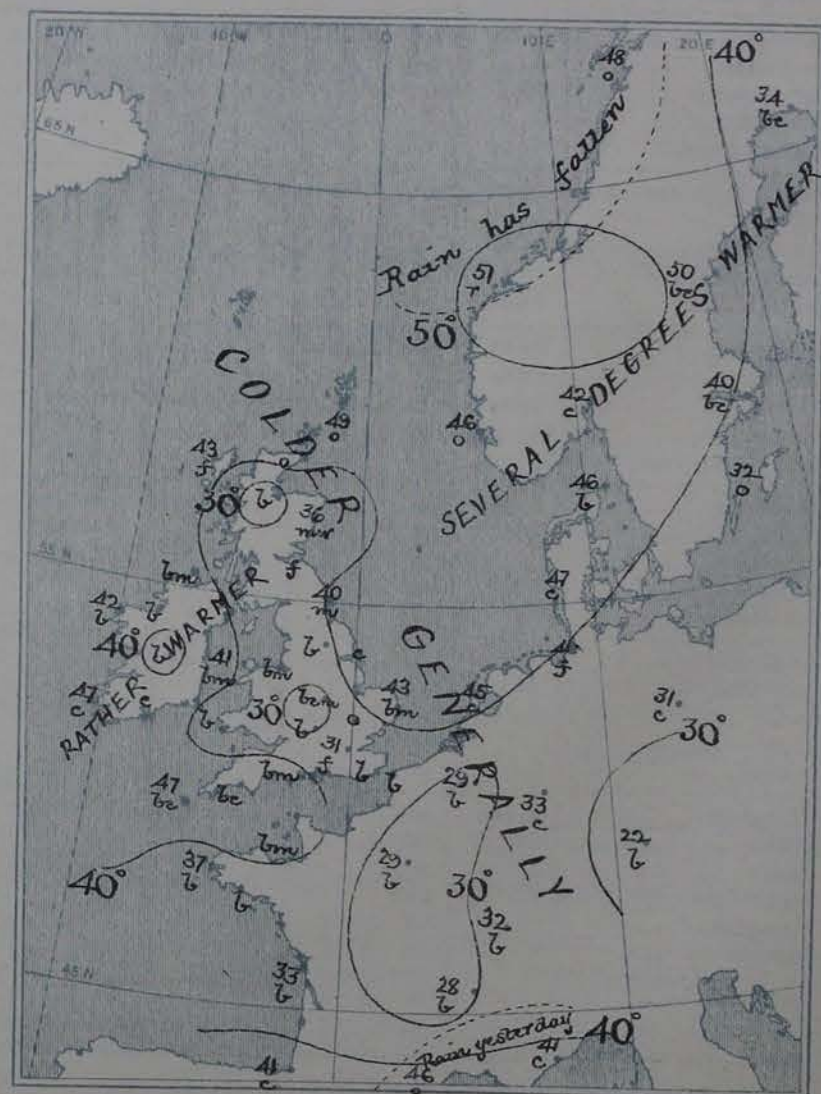
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of October.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	49.8	41.6	46.0	44.3	4.27
Stornoway .....	51.0	40.5	45.6	44.5	5.04
Wick.....	51.7	40.5	46.3	44.6	3.02
Nairn.....	51.9	40.8	44.8	42.9	2.38
Aberdeen.....	52.5	41.4	45.6	43.6	2.87
Leith.....	54.7	41.8	46.7	44.9	1.97
Shield.....	53.2	42.7	47.2	45.4	2.48
Spurn Head.....	53.3	45.7	48.8	47.3	2.27
York.....	54.5	41.4	45.9	44.5	2.60
Loughborough .....	55.7	41.1	45.9	44.6	2.80
Ardrossan .....	53.7	43.7	47.8	45.8	3.87
Mullaghmore .....	54.2	45.7	49.1	46.9	4.75
Donaghadee.....	53.6	43.6	47.8	46.6	3.14
Holyhead.....	54.7	47.3	50.3	48.3	4.31
Liverpool.....	53.8	44.7	47.8	45.8	3.46
Parsonstown .....	54.8	41.0	46.2	44.5	3.16
Valencia.....	56.6	46.8	51.4	49.2	5.88
Roche's Point.....	56.0	46.1	50.2	48.3	4.09
Pembroke.....	54.9	48.0	51.2	49.2	3.96
Scilly.....	56.6	50.2	53.7	51.6	3.70
Prawle Point .....	56.7	46.2	51.2	49.6	3.60
Jersey.....	58.2	48.6	53.3	50.7	4.45
Hurst Castle.....	57.1	45.8	50.8	49.2	3.28
Dover.....	56.1	46.2	50.2	48.2	3.22
LONDON.....	56.7	42.7	47.5	45.9	2.67
Oxford.....	55.5	42.2	46.2	44.9	2.56
Cambridge.....	56.5	41.0	46.4	45.3	2.27
Yarmouth.....	54.3	44.6	49.0	47.6	2.92

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.7 in: and upwards, over the east and south of Scotland and the north of England.  
 Lowest, 29.8 in: and less, in the north of Sweden; and also in the south of Portugal.  
 Gradients rather steep over Scandinavia and also over France and the western part of the Channel, but slight elsewhere.  
 Barometer falling in Sweden and Denmark, rising in most other countries, but rather unsteady on our extreme southwest coast.

## TEMPERATURE

Highest (1) 52° at Fife and 47° at Valencia Island, Rock Point and Selly; (2) 51° at Christiansund, 50° at Haris and 49° at Sumburg H., and 48° at Bess.  
 Lowest (1) 22° at Munich, 28° at Lyons, and 29° at Brussels and Paris; (2) 26° at Hughton, 25° at Nain, 30° at Oxford, and 31° in London.  
 Sharp frost occurred last night over the central parts of Great Britain; in London the thermometer on the grass fell to 20°.

## WIND

E over France, South Germany and the west and south of our Islands, with a moderate gale on our southwest coast.  
 Moderate to strong from the W in Scandinavia, with a gale at Christiansund.  
 Light from the NW over the North Sea and the adjacent coast.

## WEATHER

Fine generally, but foggy in many parts of Great Britain and dull in the west of Norway, with rain at Christiansund.  
 A little rain fell yesterday in the west of Norway and the south of France, but elsewhere the weather was quite dry.

## SEA

Rough on our southwest coasts, and rather rough at Christiansund and Nice, but slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

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

# FORECASTS

For the 24 hours ending at NOON on 1<sup>st</sup> November 1891.

## DISTRICTS.

## FORECASTS.

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

Variable or Northwesterly airs; fair generally, but local fogs.  
 Northeasterly winds, light; fair generally, but local fogs.  
 Easterly winds, moderate inland, strong on coast; fine generally.

## DISTRICTS.

## FORECASTS.

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

Same as Nos 3 and 4.  
 Easterly winds, moderate or fresh; fair generally.  
 Easterly winds, strong; fair generally.  
 Same as No 7.  
 Same as No 8.  
 None issued.

## 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.

THER: WIND								THER: WIND							
	BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA
Skudesnaes ...	30.58	47	44	NW	1	c	1	Holyhead ...	30.58	49	45	E	2	b	2
Sumburgh Head ...	30.53	50	49	W	1	o	2	Valencia ...	30.48	54	51	E	4	bc	3
Stornoway ...	30.54	52	52	W	0	o	2	Scilly ...	30.42	53	49	E	5	b	4
Aberdeen ...	30.64	50	44	S	1	b	1	Jersey ...	30.41	50	43	EHE	5	bm	4
Shields ...	30.63	48	45	NW	1	o	2	Dungeness ...	30.58	45	40	E	5	bc	4
Ardrossan ...	30.63	47	46	NE	3	b	1	London ...	30.60	47	43	E	2	bm	*
Malin Head ...	30.58	49	46	SSE	3	c	1	Yarmouth ...	30.62	47	43	ESE	3	f	4
Mullaghmore ...	30.57	49	47	E	4	b	2	Rocheport ...	30.14	52	44	E	6	b	*
Belmullet ...	30.54	52	48	ESE	2	b	*								

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

Weather in morning fine over Western Europe, the North Sea, England, and Ireland, but foggy in several places; dull over northern, eastern, and central Europe, with rain in the north of Norway, snow at several Baltic stations. Considerable rain over northern half of Norway later, and some in Spain and the south of France, very fine over the United Kingdom.

Temperature still falling in most places, but rising in Scotland and over Scandinavia — as much as 13° at Oslo. Morning readings all below 50° except over the southern part of the Mediterranean, below in some part of our Islands, and as low as 17° to 21° over Finland and the north of Russia, 21° to 26° over southern Russia, 26° to 35° over Central Europe, 31° at Paris, and Harrogate, 38° in London, 39° at Oxford and Liverpool. Rising to slightly above 50° over Great Britain and the south of Ireland later and in the west and south of France, but scarcely exceeding 40° over Germany.

Wind light and anticyclonic over the British Isles and North Sea, strong from WSW over the northern half of Norway, light NE over the Baltic, moderate N to NE over Germany and France; strong from the same direction over the Adriatic and Italy, mainly W on the Algerian coast and at Malta. Freshening considerably from the E over the Channel and Bay of Biscay later, and blowing a strong gale from WSW at Christiansund.

Barometer highest 30.6 mm. and more to 30.4 mm. in a large anticyclone covering the British Isles, Channel, North Sea, Denmark, Baltic, and Finland. Lowest 29.8 mm. and less, in a large depression over Southeastern Europe, and 30.0 mm. and less, in another off the coast of Denmark; below 30.2 mm. over Central and northeastern Russia also. Falling a little over the Bay of Biscay and southwest of our Islands later, and briskly over the north of Scandinavia.

### EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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

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

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

„ Weekly „ „ „ £1 10 0 „



# ADDITIONS AND CORRECTIONS TO THE

## 1. REPORTS RECEIVED TOO LATE FOR INSERTION DAILY.

DATE.	STATIONS.	YESTERDAY EVENING.						8 A.M. TO-DAY.										PAST 24 HOURS.		
		Barometer at 33° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	Reading at 33° F. and Sea Level.	Difference from 8 a.m. yesterday.	SHADE TEMP.		Difference from 8 a.m. yesterday.	WIND.		Weather.	Sea (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
				Dir.	Force (0 to 12.)				Dry.	Wet.		Dir.	Force (0 to 12.)			Max.	Min.			
1	Corunna	*	*	*	*	*	29.92	-12	66	62	+2	S	7	0	5	68	64	-		
3	Corunna	*	*	*	*	*	30.17	+01	60	55	+5	N	3	6	2	63	46	-		
5	Brussels	*	*	*	*	*	30.04	-25	52	-	+4	ENE	1	6	*	62	43	-		
"	Lyon	30.09	51	NW	1	6	30.03	-10	51	-	+4	SSE	1	60	*	59	46	-		
"	Corunna	*	*	*	*	*	29.93	-12	56	54	0	SE	5	6	1	68	46	-		
6	Lyon	29.95	59	E	3	0	29.93	-10	60	-	+9	S	4	6	*	68	51	-		
"	Corunna	*	*	*	*	*	29.59	-34	68	64	+2	S	9	0	4	72	59	-		
7	Brest	29.39	57	SW	5	0	29.59	?	56	-	?	SW	6	0	5	57	54	1.22		
"	Biarritz	29.63	80	SW	6	0	29.91	+20	57	-	-7	N	5	*	4	81	54	0.24		
"	Corunna	*	*	*	*	*	29.91	+32	63	57	-5	SW	5	0	6	73	63	0.32		
8	Corunna	*	*	*	*	*	30.01	+10	64	61	+1	SW	5	0	6	66	54	0.12		
9	Corunna	*	*	*	*	*	29.91	-10	66	65	+2	SW	4	*	5	66	52	0.04		
10	Brussels	*	*	*	*	*	29.96	+07	60	-	+5	SSE	2	C	*	66	55	-		
"	Corunna	*	*	*	*	*	29.95	+04	63	62	-3	N	4	0	4	70	?	-		
12	Corunna	*	*	*	*	*	29.71	-05	59	55	-4	SW	4	C	4	64	50	0.59		
13	Corunna	*	*	*	*	*	29.62	-09	68	64	+4	SSW	7	*	5	68	54	-		
14	Sumburgh Hd.	-	-	-	-	-	28.44	-85	50	48	0	S	7	C	7	52	47	0.30		
"	Arrossan	-	-	-	-	-	28.81	-40	50	48	+5	SSW	7	0	7	57	45	?		
"	Pembroke	28.80	56	SSW	7	C	29.16	-01	54	52	+1	SSW	7	C	7	59	44	0.96		
"	Prawle Point	29.05	57	SSW	7	0	29.44	+10	55	53	+2	SW	8	60	7	59	52	0.21		
"	Corunna	*	*	*	*	*	29.91	+29	61	57	-7	SSW	4	C	4	70	55	0.59		
"	Arrossan 2pm	*	*	*	*	*	28.93	-	55	54	-	SW	7	0	6	-	-	-		
15	Perpignan	30.07	63	NE	1	0	30.05	+08	58	-	+8	NW	1	0	*	71	?	-		
"	Corunna	*	*	*	*	*	29.97	+06	64	59	+3	SSW	4	60	2	66	54	-		
16	Pembroke	29.57	52	NSW	5	60	29.23	-10	50	49	-2	SSW	8	C	9	55	37	0.70		
"	Belfort	?	61	N	3	0	?	?	61	-	-1	N	3	0	*	71	44	-		
"	Corunna	*	*	*	*	*	29.95	-02	55	51	-4	SSW	4	C	3	68	50	-		
17	Pembroke	29.50	51	NSW	5	0	29.72	+49	52	51	+2	N	5	Cyp	6	53	46	0.14		
"	Corunna	*	*	*	*	*	30.15	+20	52	50	-3	S	4	60	3	63	43	-		
19	Corunna	*	*	*	*	*	29.90	-24	59	55	+4	S	4	0	4	59	43	-		
20	Corunna	*	*	*	*	*	29.70	-26	55	55	-4	NSW	4	0	3	63	50	1.06		
21	Corunna	*	*	*	*	*	29.58	-12	57	54	+2	S	4	0	5	63	50	0.51		
22	Corunna	*	*	*	*	*	29.39	-19	66	61	+5	S	7	C	6	?	?	-		
23	Haparanda	30.01	28	SE	8	60	29.64	-54	29	29	+3	SE	6	5	*	?	23	0.12		
"	Corunna	*	*	*	*	*	29.67	+28	56	-	-10	S	3	0	3	70	48	-		
24	Corunna	*	*	*	*	*	29.88	+21	53	52	-3	E	2	*	3	59	45	-		
25	Perpignan	29.56	64	ENE	2	0	29.35	-37	62	-	-2	SE	3	*	*	65	60	1.02		
26	Corunna	*	*	*	*	*	29.54	-19	58	57	+3	NW	5	*	4	?	46	0.59		
27	Perpignan	29.61	58	S	4	0	29.87	+81	53	-	+1	NSW	2	60	*	66	53	0.51		
"	Corunna	*	*	*	*	*	29.61	+07	62	57	+4	E	2	6	3	?	52	0.12		
28	Perpignan	29.65	55	NE	5	62	29.58	-29	54	-	+1	N	1	*	*	60	52	2.72		
"	Corunna	*	*	*	*	*	29.75	+14	55	54	-1	E	2	6	3	?	45	-		
29	Lyon	29.78	46	N	3	0	29.98	+23	39	-	-8	NW	2	0	*	51	39	-		
"	Corunna	*	*	*	*	*	29.98	+23	55	53	-2	NE	1	6	3	?	46	-		
30	Brussels	*	*	*	*	*	30.59	+27	29	-	-3	ENE	3	6	*	46	28	-		
"	Corunna	*	*	*	*	*	29.93	-05	55	54	0	SW	3	*	3	61	52	-		
31	disbon	*	60	ENE	4	*	29.84	-06	59	59	+5	SSW	2	6	5	63	48	1.34		
"	Corunna	*	*	*	*	*	29.91	-02	58	55	+3	E	1	6	2	63	48	-		



## 2. CORRECTIONS.

DATE.	STATIONS.	YESTERDAY EVENING.					8 A.M. TO-DAY.								PAST 24 HOURS.				
		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
				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.		
2	Belmullet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52	-	-
3	London	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	61	-	-
5	Parsonstown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Not rain
-	Dungeness	-	-	-	-	-	-	-	59	56	+ 13	-	-	-	-	-	-	-	-
-	Yarmouth	-	-	-	-	-	-	-	57	-	+ 5	-	-	-	-	-	-	-	-
6	Nairn	29.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Prawle Point	-	-	-	-	-	29.32	- 56	-	-	-	-	-	-	-	-	-	-	0.90
7	Ardrrossan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	-
-	Mullaghmore	-	-	-	-	-	-	-	-	47	-	-	-	-	-	-	-	-	-
9	Leith	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.33
-	Mullaghmore 2pm	-	-	-	-	-	-	-	53	-	-	-	-	-	-	-	-	-	-
10	York	29.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Loughborough	29.71	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Prawle Point	29.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Jersey	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	66	-	-
12	Dungeness	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	Dungeness	-	-	-	12	-	-	-	-	-	-	-	-	-	-	-	-	52	-
-	Cambridge	29.06	-	NSW	5	T	-	-	-	-	-	-	-	-	-	-	-	-	-
15	Nairn	28.85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Leith	29.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Belmullet	29.17	-	NSW	6	09 p	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Mullaghmore 2pm	-	-	-	-	-	29.14	-	-	-	-	-	-	-	-	-	-	-	-
18	Pembroke	29.85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	Prawle Point	-	-	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	Spurn Head	-	-	-	-	-	29.18	- 34	-	-	-	-	-	-	-	-	-	-	0.37
-	Belmullet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Parsonstown	-	-	-	-	-	28.81	-	-	-	-	-	-	-	-	-	-	-	-
22	Shields	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	55	-	-
-	York	-	-	-	-	-	29.09	- 05	-	-	-	-	-	-	-	-	-	-	-
-	Loughborough	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44	-
-	Mullaghmore	-	-	-	6	-	28.92	+ 20	-	-	-	-	-	-	-	-	-	-	-
-	Belmullet	-	-	-	-	-	-	-	-	-	-	SW	-	-	-	-	-	-	56
23	Dungeness	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	Brest	-	52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	Liverpool	30.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Cambridge	29.82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	Yarmouth	-	-	-	-	-	30.20	+ 18	-	-	-	-	-	-	-	-	-	-	-
31	Hurst Castle	-	-	-	-	-	30.60	-	-	-	-	-	-	-	-	-	-	-	-