

METEOROLOGICAL OFFICE

✓  
LONDON.

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DAILY WEATHER REPORTS.

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1<sup>ST</sup> JULY—31<sup>ST</sup> DECEMBER.

1887.



July to December 1887.

*Map Showing Stations*





# DAILY WEATHER REPORT.

for Saturday 1<sup>st</sup> October

1887.

Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

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|--|------------------------------------|-----------------|-------|-------------------|----------|----------------------------------|-----------------------------------|-------------|------|-----------------------------------|-------|-------------------|----------------|-------------|------|---------------------|------|---|
| STATIONS.  | † YESTERDAY EVENING.               |                 |       |                   |          | 8 A.M. TO DAY.                   |                                   |             |      |                                   |       |                   |                |             |      | PAST 24 HOURS.      |      |   |
|  | Barometer at 32° F. and Sea Level. | Temp. in Shade. | WIND. |                   | Weather. | BAROMETER.                       |                                   | SHADE TEMP. |      |                                   | WIND. |                   | Sea. (0 to 9.) | SHADE TEMP. |      | Amount of Rainfall. |      |   |
|  |                                    |                 | Dir.  | Force. (0 to 12.) |          | Reading at 32° F. and Sea Level. | Difference from 8 a.m. yesterday. | Dry.        | Wet. | Difference from 8 a.m. yesterday. | Dir.  | Force. (0 to 12.) |                | Weather.    | Max. |                     | Min. |   |
| SCANDINAVIA.   |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |                |             |      |                     |      |   |
| Haparanda ..   | 30.13                              | 32              | E     | 2                 | bc       | 29.97                            | - .20                             | 33          | 30   | - .4                              | ESE   | 4                 | 0              | *           | 46   | 30                  | -    |   |
| Hernösand ...  | 30.04                              | 43              | NE    | 4                 | T        | 29.97                            | - .07                             | 41          | 39   | - .7                              | NNE   | 2                 | 0              | *           | 50   | 37                  | 0.04 |   |
| Stockholm ...  | 29.82                              | 48              | NE    | 2                 | T        | 29.86                            | + .03                             | 46          | 43   | - 2                               | NNE   | 4                 | 0              | *           | 52   | 43                  | 0.12 |   |
| Visby ...  | 29.71                              | 51              | NE    | 4                 | T        | 29.74                            | + .11                             | 51          | 49   | + 1                               | ENE   | 4                 | 0              | *           | 52   | 46                  | 0.12 |   |
| Bodö ...   | 29.95                              | 44              | Z     | 0                 | b        | 29.94                            | - .39                             | 49          | 46   | 0                                 | SSE   | 1                 | 0              | 1           | 54   | 41                  | -    |   |
| Christiansund...   | 29.97                              | 50              | WSW   | 2                 | c        | 29.86                            | - .09                             | 49          | 46   | + 2                               | SW    | 6                 | 0              | 2           | 54   | 45                  | -    |   |
| Skudesnaes ...   | 29.96                              | 51              | NW    | 2                 | b        | 30.02                            | + .05                             | 50          | 48   | 0                                 | NW    | 2                 | 0              | 3           | 59   | 50                  | -    |   |
| Christiania Fjord (Færdar)   | 29.90                              | 52              | NNE   | 5                 | b        | 29.95                            | + .06                             | 49          | 45   | 0                                 | NNE   | 3                 | 0              | 1           | 52   | 48                  | -    |   |
| Skagen (The Scaw)  | 29.84                              | 50              | NE    | 4                 | bc       | 29.90                            | + .08                             | 50          | 47   | 0                                 | ENE   | 3                 | 0              | 2           | 54   | 48                  | -    |   |
| Faßö ...   | 29.85                              | 44              | N     | 4                 | b        | 29.89                            | + .16                             | 49          | 46   | - 2                               | N     | 4                 | 0              | *           | 55   | 43                  | -    |   |
| BRITISH ISLANDS.   |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |                |             |      |                     |      |   |
| Sumburgh Head  | 30.07                              | 46              | N     | 1                 | 0        | 30.07                            | + .04                             | 50          | 48   | + 3                               | NW    | 2                 | 0              | 1           | 50   | 43                  | -    |   |
| Stornoway ...  | 30.17                              | 49              | NE    | 2                 | om       | 30.22                            | + .12                             | 51          | 51   | + 1                               | N     | 2                 | 0              | 3           | 52   | 45                  | -    |   |
| Wick ...   | 30.09                              | 49              | N     | 2                 | 0        | 30.17                            | + .10                             | 49          | 49   | + 2                               | NW    | 2                 | 0              | 0           | 55   | 46                  | -    |   |
| Nairn ...  | 30.12                              | 51              | E     | 1                 | c        | 30.22                            | + .15                             | 46          | 44   | - 5                               | SW    | 1                 | 0              | 1           | 53   | 46                  | -    |   |
| Aberdeen...  | 30.09                              | 50              | N     | 4                 | dm       | 30.20                            | + .17                             | 48          | 46   | - 3                               | NW    | 4                 | 0              | 2           | 55   | 46                  | 0.02 |   |
| Leith ...  | 30.10                              | 53              | N     | 2                 | c        | 30.20                            | + .20                             | 46          | 45   | - 6                               | WSW   | 1                 | bmw            | *           | 61   | 46                  | 0.07 |   |
| Shields ...  | 30.04                              | 52              | NNE   | 3                 | c        | 30.18                            | + .26                             | 50          | 47   | - 3                               | N     | 2                 | 0              | 4           | 57   | 48                  | 0.02 |   |
| Spurn Head ...   | 29.95                              | 56              | NNE   | 5                 | bc       | 30.10                            | + .31                             | 52          | 51   | - 3                               | N     | 5                 | 0              | 4           | 57   | 50                  | 0.08 |   |
| York ...   | 29.99                              | 53              | N     | 2                 | bc       | 30.15                            | + .30                             | 50          | 48   | - 4                               | N     | 3                 | 0              | *           | 58   | 42                  | 0.06 |   |
| Loughborough   | 29.96                              | 53              | NNE   | 2                 | 0        | 30.15                            | + .32                             | 46          | 46   | + 2                               | NW    | 1                 | cmw            | *           | 58   | 43                  | 0.10 |   |
| GERMANY.   |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |                |             |      |                     |      |   |
| Androssau ...  | 30.09                              | 56              | Z     | 0                 | c        | 30.21                            | + .21                             | 46          | 45   | - 7                               | Z     | 0                 | bm             | 0           | 60   | 40                  | -    |   |
| Malin Head ...   | 30.14                              | 53              | NNE   | 3                 | b        | 30.26                            | + .23                             | 51          | 50   | - 4                               | NW    | 3                 | 0              | 3           | 57   | 50                  | -    |   |
| Mullaghmore ...  | 30.13                              | 56              | NE    | 4                 | b        | 30.27                            | + .26                             | 54          | 51   | 0                                 | N     | 4                 | 0              | 2           | 59   | 51                  | -    |   |
| Belmullet ...  | 30.16                              | 55              | NNE   | 3                 | b        | 30.30                            | + .26                             | 53          | 51   | - 2                               | NNE   | 2                 | og             | *           | 60   | 49                  | -    |   |
| Donaghadee ...   | 30.10                              | 56              | NE    | 4                 | c        | 30.23                            | + .27                             | 52          | 51   | - 2                               | NW    | 2                 | b              | 0           | 59   | 48                  | -    |   |
| FRANCE & NETHERLANDS.  |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |                |             |      |                     |      |   |
| Barrow-in-Farress  | ?                                  | 53              | NE    | 2                 | bc       | 30.17                            | + .31                             | 49          | 47   | - 4                               | NE    | 1                 | bc             | *           | 60   | 45                  | -    |   |
| Liverpool (Bidston)  | 30.02                              | 52              | NE    | 3                 | 0        | 30.20                            | + .35                             | 47          | 45   | - 4                               | NE    | 1                 | b              | 2           | 59   | 44                  | 0.01 |   |
| Holyhead ...   | 30.03                              | 55              | NNE   | 4                 | bc       | 30.20                            | + .34                             | 54          | 51   | - 1                               | NNE   | 3                 | 0              | 3           | 58   | 49                  | 0.01 |   |
| Parsonstown ...  | 30.09                              | 55              | Z     | 0                 | c        | 30.28                            | + .42                             | 42          | 42   | - 9                               | Z     | 0                 | f              | *           | 59   | 38                  | -    |   |
| Valencia ...   | 30.08                              | 57              | N     | 3                 | c        | 30.27                            | + .34                             | 49          | 48   | - 4                               | Z     | 0                 | bmw            | 1           | 59   | 44                  | -    |   |
| Roche's Point...   | 30.02                              | 57              | ENE   | 2                 | cp       | 30.22                            | + .39                             | 50          | 47   | - 2                               | NNE   | 3                 | b              | 3           | 60   | 46                  | 0.01 |   |
| Pembroke ...   | 29.96                              | 56              | ENE   | 4                 | c        | 30.18                            | + .41                             | 51          | 50   | + 1                               | ENE   | 2                 | bc             | 1           | 58   | 48                  | -    |   |
| Seilly ...   | 29.91                              | 56              | NE    | 5                 | c        | 30.09                            | + .44                             | 55          | 53   | + 2                               | NE    | 5                 | c              | 4           | 58   | 52                  | -    |   |
| Prawle Point ...   | 29.90                              | 53              | N     | 4                 | c        | 30.10                            | + .39                             | 50          | 48   | - 2                               | NNE   | 6                 | c              | 5           | 59   | 45                  | -    |   |
| Jersey ...   | 29.82                              | 58              | NE    | 4                 | bc       | 30.01                            | + .37                             | 55          | 53   | + 5                               | ENE   | 2                 | og             | 2           | 60   | 49                  | 0.20 |   |
| Hurst Castle ...   | 29.85                              | 54              | NNE   | 4                 | cp       | 30.09                            | + .37                             | 52          | 51   | + 3                               | NNE   | 4                 | b              | 2           | 59   | 48                  | 0.06 |   |
| Dungeness ...  | 29.78                              | 54              | NNE   | 3                 | bc       | 30.01                            | + .32                             | 50          | 50   | + 3                               | NE    | 3                 | c              | 2           | 60   | 47                  | 0.12 |   |
| London ...   | 29.85                              | 54              | NE    | 3                 | oa       | 30.09                            | + .33                             | 49          | 47   | + 10                              | NE    | 2                 | bc             | *           | 56   | 39                  | 0.10 |   |
| Oxford ...   | 29.97                              | 51              | NW    | 3                 | T        | 30.14                            | + .34                             | 49          | 47   | + 10                              | NNE   | 3                 | c              | *           | 54   | 39                  | 0.11 |   |
| Cambridge ...  | 29.93                              | 50              | N     | 1                 | T        | 30.11                            | + .30                             | 50          | 49   | + 8                               | N     | 2                 | b              | *           | 57   | 41                  | 0.44 |   |
| Yarmouth ...   | 29.85                              | 55              | ENE   | 6                 | og       | 30.05                            | + .34                             | 54          | 51   | 0                                 | N     | 4                 | bc             | 4           | 56   | 50                  | 0.12 |   |
| Cuxhaven ...   | 29.77                              | 48              | NE    | 5                 | T        | 29.88                            | + .24                             | 52          | 50   | 0                                 | N     | 6                 | f              | *           | 53   | 48                  | 0.10 |   |
| Berlin ...   | 29.70                              | 54              | N     | 4                 | 0        | 29.77                            | + .21                             | 52          | 51   | + 1                               | NW    | 1                 | 0              | *           | 61   | 50                  | 0.04 |   |
| Wiesbaden ...  | *                                  | *               | *     | *                 | *        | 29.89                            | + .20                             | 48          | 47   | + 9                               | Z     | 0                 | T              | *           | 59   | 3                   | 0.04 |   |
| Munich ...   | 29.87                              | 42              | W     | 3                 | 0        | 29.99                            | + .31                             | 44          | 42   | + 9                               | SW    | 5                 | b              | *           | 50   | 36                  | 0.04 |   |
| SPAIN & PORTUGAL.  |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |                |             |      |                     |      |   |
| The Helder ...   | 29.85                              | 54              | NNE   | 4                 | c        | 29.97                            | + .27                             | 51          | 49   | - 2                               | NNE   | 3                 | T              | 2           | 55   | 50                  | 0.12 |   |
| Brussels ...   | *                                  | *               | *     | *                 | *        | 30.00                            | + .45                             | 48          | 47   | + 5                               | NW    | 1                 | bc             | *           | 57   | ?                   | 0.08 |   |
| Cape Gris Nez...   | 29.79                              | 55              | NNE   | 5                 | 0        | 29.97                            | + .29                             | 53          | ?    | ?                                 | NNE   | 3                 | b              | 2           | 61   | 45                  | 0.47 |   |
| Paris ...  | 29.81                              | 50              | N     | 4                 | bc       | 30.00                            | + .37                             | 39          | 39   | - 6                               | NE    | 1                 | f              | *           | 60   | 36                  | -    |   |
| Brest ...  | 29.83                              | 54              | E     | 5                 | bc       | 30.00                            | + .35                             | 51          | 48   | + 5                               | NE    | 4                 | 0              | 3           | 64   | 45                  | 0.24 |   |
| Lorient ...  | 29.83                              | 55              | NE    | 4                 | T        | 29.97                            | + .32                             | 51          | 47   | + 3                               | ENE   | 4                 | c              | 2           | 67   | 46                  | -    |   |
| Rochefort ...  | 29.82                              | 56              | WSW   | 4                 | m        | 29.95                            | + .29                             | 49          | 48   | - 5                               | SE    | 4                 | bc             | 2           | 64   | 45                  | -    |   |
| Belfort ...  | *                                  | *               | *     | *                 | *        | *                                | *                                 | *           | *    | *                                 | *     | *                 | *              | *           | *    | *                   | *    | - |
| Lyons ...  | 29.80                              | 52              | WSW   | 3                 | c        | 30.00                            | + .33                             | 42          | 40   | - 7                               | NW    | 1                 | b              | *           | 63   | 48                  | -    |   |
| Nice ...   | 29.55                              | 58              | W     | 3                 | b        | 29.93                            | + .33                             | 54          | 45   | + 1                               | W     | 1                 | b              | 1           | 68   | 48                  | -    |   |
| Perpignan ...  | 29.85                              | 55              | Z     | 0                 | c        | 29.94                            | + .20                             | 51          | 49   | + 1                               | SE    | 3                 | f              | *           | 66   | 45                  | -    |   |
| Biarritz ...   | 29.79                              | 57              | ESE   | 4                 | b        | 29.87                            | + .16                             | 57          | 50   | + 5                               | SW    | 3                 | 0              | 2           | 63   | 59                  | -    |   |
| Corunna ...  | *                                  | *               | *     | *                 | *        | *                                | *                                 | *           | *    | *                                 | *     | *                 | *              | *           | *    | *                   | *    | - |
| Lisbon ...   | 29.98                              | 58              | SW    | 4                 | b        | 30.04                            | + .08                             | 55          | 53   | - 2                               | NW    | 5                 | 0              | ?           | 66   | 54                  | -    |   |

For Explanation of Columns, see p. 4.



# WEATHER

# CHARTS

for 8 a.m. on

Saturday, 1<sup>st</sup> OCTOBER

1887.

## BAROMETER, WIND & 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.

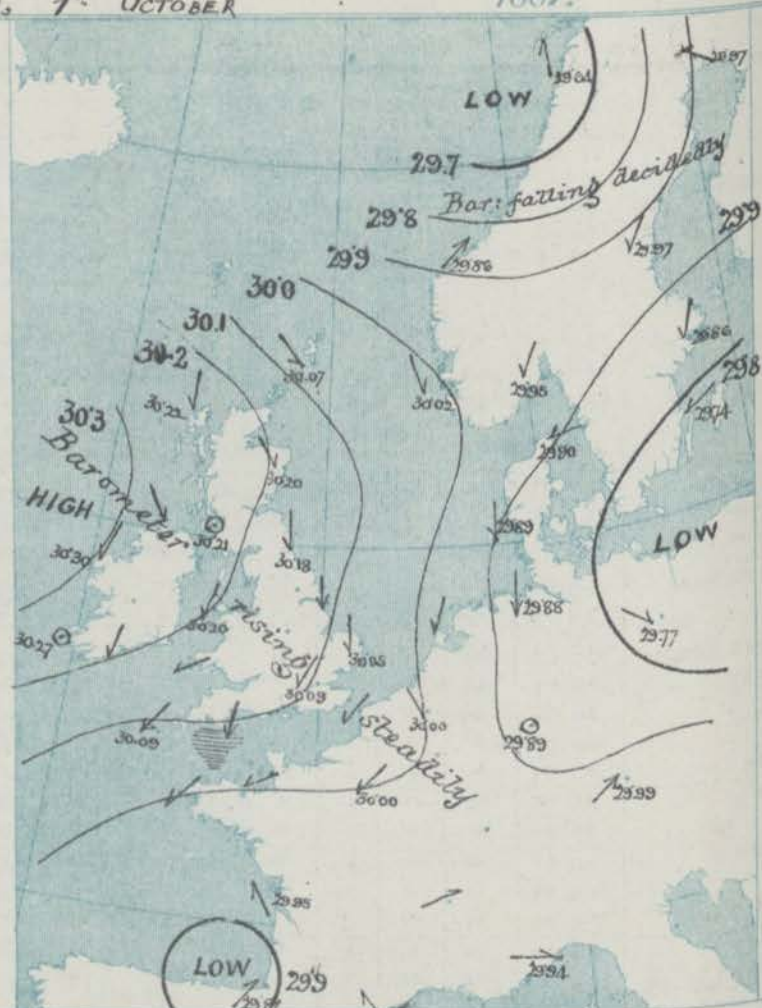
**Sea Disturbance** — where considerable is shown thus

▨ = Rough. ▨ = High.

## MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of October  
During the 10 Years 1871—1880.

| STATIONS.      | MEAN READINGS. |
|----------------|----------------|
| Sumburgh Head. | 29.885         |
| Stornoway.     | 29.707         |
| Wick.          | 29.718         |
| Nairn.         | 29.738         |
| Aberdeen.      | 29.748         |
| Leith.         | 29.780         |
| Shields.       | 29.821         |
| York.          | 29.860         |
| Ardrossan.     | 29.749         |
| Donaghadee.    | 29.805         |
| Holyhead.      | 29.830         |
| Liverpool.     | 29.848         |
| Valencia.      | 29.842         |
| Roche's Point. | 29.843         |
| Pembroke.      | 29.847         |
| Scilly.        | 29.877         |
| Hurst Castle.  | 29.894         |
| Dover.         | 29.907         |
| LONDON.        | 29.902         |
| Oxford.        | 29.891         |
| Cambridge.     | 29.894         |
| Yarmouth.      | 29.889         |



## 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.

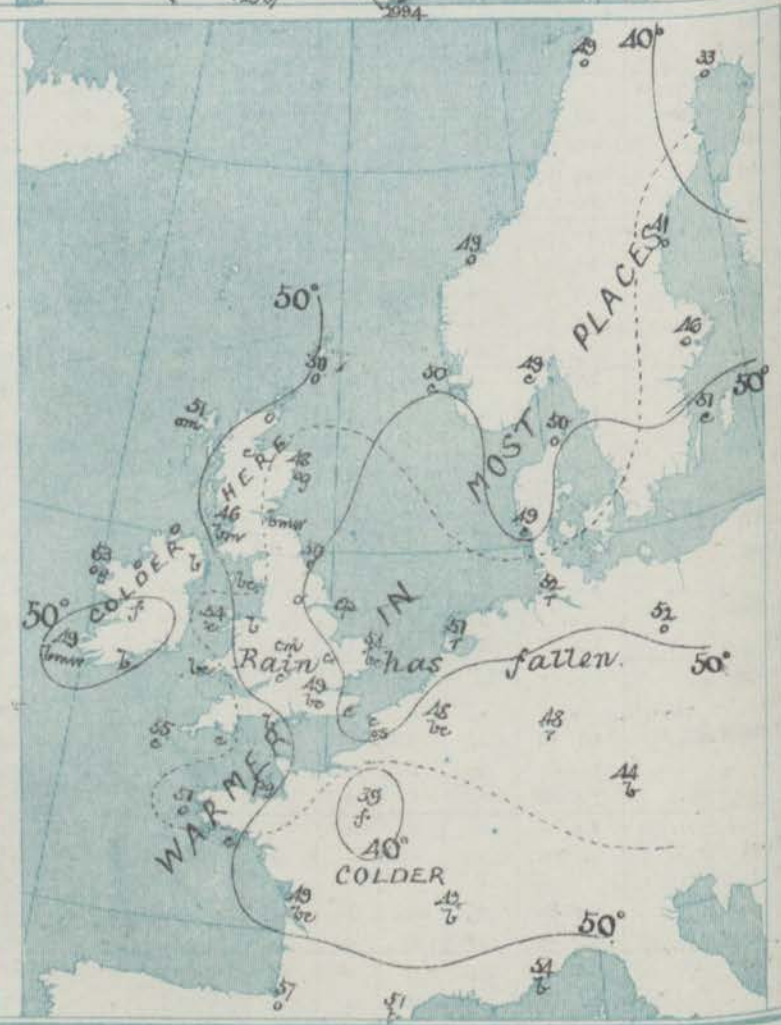
**Rainfall.** A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of October.

| STATIONS      | TEMPERATURE  |               |           |      | RAINFALL<br>(Inches) |
|---------------|--------------|---------------|-----------|------|----------------------|
|               | Daily<br>Max | Daily<br>Min. | At 8 a.m. |      |                      |
|               |              |               | Dry.      | Wet. |                      |
| Sumburgh Head | 49.5         | 41.6          | 45.9      | 44.4 | 4.33                 |
| Stornoway     | 50.2         | 38.8          | 45.1      | 43.9 | 4.94                 |
| Wick          | 51.8         | 40.0          | 46.0      | 44.3 | 2.94                 |
| Nairn         | 51.4         | 40.7          | 44.6      | 42.5 | 2.38                 |
| Aberdeen      | 52.1         | 41.3          | 45.5      | 43.5 | 2.88                 |
| Leith         | 55.3         | 41.9          | 46.7      | 45.1 | 1.94                 |
| Shields       | 53.2         | 43.1          | 47.3      | 45.5 | 2.46                 |
| York          | 55.2         | 40.9          | 46.0      | 44.7 | 2.64                 |
| Ardrossan     | 53.7         | 43.2          | 47.7      | 45.4 | 4.31                 |
| Donaghadee    | 53.2         | 43.2          | 47.8      | 46.8 | 3.36                 |
| Holyhead      | 54.9         | 47.5          | 50.4      | 48.6 | 4.53                 |
| Liverpool     | 54.0         | 44.9          | 48.0      | 46.2 | 3.62                 |
| Valencia      | 56.7         | 46.5          | 51.3      | 49.1 | 6.09                 |
| Roche's Point | 55.6         | 46.4          | 50.4      | 48.6 | 4.17                 |
| Pembroke      | 55.1         | 48.4          | 51.6      | 49.4 | 4.13                 |
| Scilly        | 56.8         | 50.7          | 53.9      | 52.0 | 8.84                 |
| Hurst Castle  | 57.7         | 46.8          | 51.5      | 50.5 | 3.24                 |
| Dover         | 56.2         | 47.8          | 51.5      | 49.4 | 3.23                 |
| LONDON        | 57.1         | 43.5          | 48.4      | 46.9 | 2.74                 |
| Oxford        | 55.7         | 42.9          | 47.0      | 45.8 | 2.72                 |
| Cambridge     | 57.0         | 41.6          | 46.6      | 45.7 | 2.86                 |
| Yarmouth      | 54.9         | 45.1          | 49.5      | 48.2 | 2.97                 |

Note — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 30 years 1866—85





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.2 in. to 30.3 in. over Ireland and Scotland, 30.04 in. at Lisbon, 29.97 in. at Haparanda.  
 Lowest, 29.64 in. at Bodo, 29.74 in. at Kirk, and 29.87 in. at Kiamitz.  
 Gradients are slight to moderate. Barometer falling in the north of Scandinavia, rising elsewhere.

## TEMPERATURE

Highest, 55° at Lisbon and Sully, 54° at Yarmouth and Mullaghmore, 52° at Aithaven and Dublin, and 50° at Kudesmaes.  
 Lowest, 33° at Haparanda, 41° at Helsingfors, 42° at Paronatorn and Lyons.  
 It has recovered considerably over our eastern and south midland counties since yesterday, but is now falling in the N. and W.

## WIND

Slight NW<sup>2</sup> in Scotland, Strong SW<sup>2</sup> to S<sup>2</sup> in the northwest of Norway.  
 Moderate N<sup>2</sup> over Ireland, England, and the North Sea. — NE<sup>2</sup> in the Channel.  
 SE<sup>2</sup> at Rochefort, SW<sup>2</sup> at Kiamitz and over South Germany, NW<sup>2</sup> in Lisbon.

## WEATHER

Fair over the greater part of our Islands, but dull in several places, and showery at Lismore Head.  
 Dull over Scandinavia and Denmark, rain in Holland, variable in France.  
 Thunder is reported at Kispignaw.

## SEA

Moderate in the north-east and east, slight or smooth elsewhere. Smooth at Dungeness, slight at Holyhead.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The new depression approaching the north of Scandinavia will probably cause some showers in the north and northeast of Scotland while that over Germany will give some rain over our eastern counties.

Over the greater part of our Islands, however, fair weather is probable with cold N<sup>2</sup> breezes — perhaps fast over Central Ireland tonight.

## FORECASTS

for the 24 hours ending at NOON on 2<sup>nd</sup> OCTOBER, 1887.

### DISTRICTS.

### FORECASTS.

|   |                  |  |
|---|------------------|--|
| 0 | SCOTLAND NORTH   | NW <sup>2</sup> and N <sup>2</sup> winds, moderate; cloudy, some showers.                        |
| 1 | SCOTLAND EAST    | — D° — D° — D° —   |
| 2 | ENGLAND N.E.     | N <sup>2</sup> to NW <sup>2</sup> winds, moderate; some showers then fair.                       |
| 3 | ENGLAND EAST     | — D° — D° — D° —   |
| 4 | MIDLAND COUNTIES | N <sup>2</sup> breezes, light; fair, cold at night.  |
| 5 | ENGLAND SOUTH    | N <sup>2</sup> and NE <sup>2</sup> breezes, moderate; fair as a whole, but some passing showers. |



### DISTRICTS.

### FORECASTS.

|    |               |  |
|----|---------------|--|
| 6  | SCOTLAND WEST | N <sup>2</sup> breezes, light or moderate; fine. |
| 7  | ENGLAND N.W.  | — D° — D° — D° —                                 |
| 8  | ENGLAND S.W.  | NE <sup>2</sup> breezes, moderate; fair.         |
| 9  | IRELAND NORTH | N <sup>2</sup> breezes, moderate; fine.          |
| 10 | IRELAND SOUTH | — D° — D° — D° —                                 |

### 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.  | Dry. | Wet. | Wind. | Wes. | Sea. |               | Bar.  | Dry. | Wet. | Wind. | Wes.   | Sea. |
|-------------------|-------|------|------|-------|------|------|---------------|-------|------|------|-------|--------|------|
| Skudesnaes ...    | 29.96 | 58   | 49   | NW 2  | C    | 2    | Holyhead ...  | 29.97 | 57   | 54   | NE 5  | bc q/p | 5    |
| Sumburgh Head ... | 30.05 | 50   | 48   | N 1   | O    | 1    | Valencia ...  | 30.02 | 58   | 51   | NNE 2 | cm     | 4    |
| Stornoway ...     | 30.15 | 52   | 51   | NE 3  | O    | 3    | Scilly ...    | 29.85 | 56   | 52   | NE 5  | cm     | 4    |
| Aberdeen ...      | 30.06 | 55   | 52   | NW 4  | O    | 3    | Dungeness ... | 29.77 | 58   | 65   | ENE 2 | C      | 3    |
| Shields ...       | 30.00 | 56   | 53   | NNE 3 | bc   | 4    | London ...    | 29.81 | 54   | 51   | NE 2  | op     | *    |
| Ardrossan ...     | 30.06 | 59   | 53   | 2     | O    | O    | Yarmouth ...  | 29.80 | 54   | 53   | ENE 5 | q/p    | 4    |
| Malin Head ...    | 30.11 | 56   | 53   | NE 3  | b    | 2    | Jersey ...    | 29.76 | 58   | 54   | NE 3  | C      | 3    |
| Mullaghmore ...   | 30.08 | 58   | 54   | NE 5  | bc   | 4    | Rochefort ... | 29.77 | 63   | 56   | N 2   | bc     | 2    |
| Belmullet ...     | 30.12 | 60   | 55   | NNE 2 | b    | *    |               |       |      |      |       |        |      |

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

Yesterday morning reports showed that pressure varied from 30.1 ins: and more over Lapland and off our extreme north-west coast, and from nearly 30 ins: over the southwest of Spain, to between 29.5 ins: and 29.7 ins: in a large shallow complex depression which covers the whole of the Bay of Biscay, France, Germany, Poland, and W<sup>m</sup> Russia; and in which there were four distinct minima observed. Thus, while as a rule, the winds were E<sup>3</sup> and NE<sup>3</sup> over the northern countries, they were W<sup>3</sup> over Spain and S<sup>3</sup> over the Mediterranean. The weather was in a very changeable condition except in Ireland and Scotland, and the distribution of temperature very irregular. At 8 a.m. the thermometer varied in height from about 75° over the southern part of the Mediterranean, and from between 50° and 55° in the south of France to below 50° over Central France and to below 40° over some parts of Germany as well as over the south midland counties of England and in the north of Russia. The highest individual values were 76° at Malta 75° at Constantinople, Palermo and Cagliari, 73° at Thiviers, 63° at Rome, 65° at Langunaise; the lowest 35° at Munich, 37° at Haparanda, 39° at Wiesbaden, London, and Oxford.

Later in the day temperature recovered over England, but the weather remained showery and unsettled except in the west and north of the British Islands, where it was fine.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for Sunday 2<sup>nd</sup> October.

1887.

Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

| Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary. |  |                    |       |                      |          |   |   |             |      |   |       |                      |          |                   |                |      |                           |
|--|--|--------------------|-------|----------------------|----------|---|---|-------------|------|---|-------|----------------------|----------|-------------------|----------------|------|---------------------------|
| STATIONS.  | + YESTERDAY EVENING.                     |                    |       |                      |          |   | 8 A.M. TO DAY.                          |             |      |   |       |                      |          |                   | PAST 24 HOURS. |      |                           |
|  | Barometer<br>at 32°<br>and<br>Sea Level. | Temp. in<br>Shade. | WIND. |                      | Weather. | Barometer.<br><br>Reading<br>at 32° F.<br>and<br>Sea Level. | Difference<br>from 8 a.m.<br>yesterday. | SHADE TEMP. |      | Difference<br>from 8 a.m.<br>yesterday. | WIND. |                      | Weather. | Sea.<br>(0 to 9.) | SHADE TEMP.    |      | Amount<br>of<br>Rainfall. |
|  |  |                    | Dir.  | Force,<br>(0 to 12.) |          |   |   | Dry.        | Wet. |   | Dir.  | Force,<br>(0 to 12.) |          |                   | Max.           | Min. |                           |
| SCANDINAVIA.   |  |                    |       |                      |          |   |   |             |      |   |       |                      |          |                   |                |      |                           |
| Haparanda ..   | 29.57                                    | 28                 | S     | 4                    | 0        | 29.24   | -0.63                                   | 29          | 28   | +6                                      | NW    | 4                    | C        | *                 | 29             | 28   | 0.24                      |
| Hernösand ..   | 29.67                                    | 43                 | N     | 4                    | 7        | 29.66   | -0.01                                   | 43          | 23   | +2                                      | N     | 6                    | C        | *                 | 45             | 41   | —                         |
| Stockholm ...  | 29.86                                    | 44                 | X     | 0                    | 0        | 29.71   | -0.15                                   | 46          | 44   | 0.0                                     | N     | 2                    | 0        | *                 | 50             | 41   | —                         |
| Wibsy ...  | 29.88                                    | 48                 | NNR   | 4                    | 0        | 29.73   | -0.01                                   | 42          | 47   | -2                                      | N     | 4                    | 0        | *                 | 52             | 45   | —                         |
| Bodo ...   | 29.35                                    | 46                 | N     | 9                    | C        | 29.33   | -0.05                                   | 28          | 36   | -11                                     | NNW   | 3                    | C        | 4                 | 34             | 34   | 0.22                      |
| Christiansund...   | 29.77                                    | 49                 | NNW   | 7                    | 0        | 29.30   | +0.44                                   | 42          | 38   | -7                                      | NNW   | 3                    | 0        | 5                 | ?              | 27   | 0.47                      |
| Skudesnaes ...   | 29.00                                    | 50                 | NNW   | 2                    | 7        | 29.01   | -0.01                                   | 50          | 46   | 0.0                                     | NW    | 4                    | C        | 3                 | 52             | 50   | —                         |
| Christiania Fjord<br>(Furder) ...  | 29.85                                    | 53                 | WSW   | 3                    | 0        | 29.76   | -0.19                                   | 52          | 49   | +3                                      | NNW   | 3                    | C        | 2                 | 54             | 52   | 0.22                      |
| Skagen (The Scaw)  | 29.33                                    | 48                 | NNW   | 2                    | 0        | 29.76   | -0.44                                   | 54          | 52   | +4                                      | NW    | 2                    | 6C       | 2                 | 54             | 46   | —                         |
| Faño ...   | 29.04                                    | 46                 | WSW   | 2                    | 6        | 29.95   | +0.06                                   | 58          | 52   | +4                                      | NW    | 4                    | 0        | *                 | 55             | 45   | 0.08                      |
| BRITISH ISLANDS.   |  |                    |       |                      |          |   |   |             |      |   |       |                      |          |                   |                |      |                           |
| Sumburgh Head  | 29.06                                    | 50                 | NNW   | 3                    | 7        | 29.14   | +0.07                                   | 49          | 49   | -1                                      | NW    | 1                    | 0        | 2                 | 51             | 46   | 0.05                      |
| Stornoway ...  | 29.27                                    | 52                 | NW    | 4                    | 0        | 29.22   | +0.11                                   | 53          | 53   | +2                                      | NW    | 4                    | 0m       | 4                 | 54             | 48   | —                         |
| Wick ...   | 29.21                                    | 51                 | N     | 2                    | 0        | 29.26   | +0.09                                   | 51          | 49   | +2                                      | N     | 3                    | 0        | 1                 | 54             | 47   | 0.02                      |
| Nairn ...  | 29.25                                    | 53                 | N     | 2                    | 6C       | 29.22   | +0.10                                   | 51          | 49   | +5                                      | N     | 1                    | 6C       | 1                 | 56             | 46   | —                         |
| Aberdeen ...   | 29.21                                    | 51                 | NW    | 3                    | 6C       | 29.20   | +0.08                                   | 52          | 49   | +4                                      | NW    | 4                    | 2        | 1                 | 56             | 47   | —                         |
| Leith ...  | 29.24                                    | 49                 | N     | 1                    | m        | 29.20   | +0.10                                   | 49          | 46   | +3                                      | N     | 1                    | 6C       | *                 | 56             | 44   | —                         |
| Shields ...  | 29.24                                    | 50                 | N     | 3                    | C        | 29.20   | +0.12                                   | 52          | 49   | +3                                      | NW    | 3                    | 2        | 2                 | 53             | 46   | 0.01                      |
| Spurn Head ...   | 29.13                                    | 53                 | N     | 5                    | C        | 29.27   | +0.17                                   | 57          | 50   | -1                                      | NW    | 4                    | 0m       | 4                 | 55             | 50   | —                         |
| York ...   | 29.21                                    | 50                 | N     | 1                    | 0        | 29.21   | +0.16                                   | 50          | 47   | 0.0                                     | NNW   | 1                    | 0        | *                 | 55             | 44   | —                         |
| Loughborough   | 29.22                                    | 51                 | N     | 2                    | 7        | 29.23   | +0.18                                   | 45          | 44   | -1                                      | NNW   | 1                    | 0m       | *                 | 55             | 42   | —                         |
| Ardrrossan ...   | 29.25                                    | 54                 | NW    | 1                    | 6C       | 29.24   | +0.12                                   | 50          | 48   | +4                                      | NW    | 1                    | C        | 1                 | 54             | 45   | —                         |
| Malin Head ...   | 29.22                                    | 53                 | NNW   | 2                    | 0        | 29.40   | +0.14                                   | 51          | 50   | 0.0                                     | NNW   | 4                    | 0p       | 3                 | 53             | 51   | —                         |
| Mullaghmore ...  | 29.25                                    | 54                 | N     | 4                    | 0        | 29.44   | +0.17                                   | 53          | 50   | -1                                      | N     | 4                    | 0p       | 2                 | 56             | 51   | —                         |
| Belmullet ...  | 29.37                                    | 53                 | NNE   | 2                    | 0        | 29.48   | +0.16                                   | 53          | 49   | 0.0                                     | NNE   | 2                    | 0        | *                 | 54             | 51   | —                         |
| Donaghadee ...   | 29.20                                    | 53                 | NNR   | 5                    | 0        | 29.28   | +0.15                                   | 54          | 49   | +2                                      | NNR   | 5                    | C        | 2                 | 54             | 50   | —                         |
| Barrow-in-Furness  | 29.22                                    | 53                 | SE    | 3                    | 6C       | 29.25   | +0.12                                   | 50          | 48   | +1                                      | NE    | 1                    | f        | *                 | 53             | 47   | —                         |
| Liverpool (Bidston)  | 29.24                                    | 52                 | SW    | 1                    | 0        | 29.22   | +0.12                                   | 51          | 49   | +4                                      | SE    | 1                    | 0        | 2                 | 55             | —    | —                         |
| Holyhead ...   | 29.27                                    | 54                 | NNE   | 2                    | 6C       | 29.25   | +0.15                                   | 54          | 50   | 0.0                                     | N     | 4                    | 6C       | 3                 | 56             | 52   | —                         |
| Parsonstown ...  | 29.32                                    | 53                 | X     | 0                    | 0        | 29.45   | +0.17                                   | 52          | 49   | +8                                      | NW    | 1                    | 0        | *                 | 53             | 41   | —                         |
| Valencia ...   | 29.23                                    | 54                 | NNR   | 2                    | 6C       | 29.46   | +0.19                                   | 51          | 49   | +2                                      | WSW   | 1                    | 0        | 1                 | 61             | 46   | —                         |
| Roche's Point...   | 29.24                                    | 56                 | NNE   | 2                    | 6        | 29.41   | +0.19                                   | 53          | 51   | +3                                      | NNE   | 2                    | C        | 3                 | 62             | 48   | —                         |
| Pembroke ...   | 29.25                                    | 54                 | NE    | 2                    | 6C       | 29.25   | +0.17                                   | 54          | 54   | +3                                      | NNE   | 1                    | 0p       | 0                 | 53             | 51   | —                         |
| Scilly ...   | 29.20                                    | 53                 | NR    | 5                    | 6C       | 29.22   | +0.23                                   | 55          | 51   | 0.0                                     | ENE   | 2                    | C        | 3                 | 57             | 51   | —                         |
| Prawle Point ...   | 29.20                                    | 53                 | N     | 4                    | 6C       | 29.22   | +0.22                                   | 53          | 49   | +3                                      | N     | 4                    | 6C       | 3                 | 60             | 49   | —                         |
| Jersey ...   | 29.12                                    | 56                 | NE    | 3                    | 6C       | 29.27   | +0.26                                   | 56          | 53   | +1                                      | NE    | 3                    | 0p       | 2                 | 58             | 52   | 0.06                      |
| Hurst Castle ...   | 29.16                                    | 54                 | NNR   | 4                    | 6        | 29.29   | +0.20                                   | 43          | 47   | -4                                      | NNR   | 4                    | 0m       | 2                 | 57             | 44   | —                         |
| Dungeness ...  | 29.10                                    | 53                 | NE    | 3                    | C        | 29.25   | +0.24                                   | 50          | 49   | 0.0                                     | NNR   | 3                    | C        | 2                 | 53             | 48   | 0.06                      |
| London ...   | 29.15                                    | 53                 | NNR   | 2                    | 6        | 29.24   | +0.20                                   | 49          | 47   | 0.0                                     | NR    | 1                    | 0        | *                 | 54             | 47   | —                         |
| Oxford ...   | 29.23                                    | 49                 | NNR   | 2                    | C        | 29.22   | +0.18                                   | 47          | 45   | -2                                      | NR    | 1                    | 0m       | *                 | 57             | 45   | —                         |
| Cambridge ...  | 29.15                                    | 49                 | N     | 2                    | 0        | 29.23   | +0.17                                   | 49          | 48   | -1                                      | N     | 1                    | 0        | *                 | 57             | 42   | 0.00                      |
| Yarmouth ...   | 29.11                                    | 53                 | N     | 5                    | C        | 29.23   | +0.18                                   | 52          | 51   | -2                                      | NNW   | 3                    | 0p       | 5                 | 56             | 48   | 0.12                      |
| Cuxhaven ...   | 29.01                                    | 47                 | NNR   | 3                    | 7        | 29.25   | +0.17                                   | 52          | 51   | 0.0                                     | NNW   | 3                    | 0        | *                 | 53             | 47   | 0.12                      |
| Berlin ...   | 29.99                                    | 51                 | N     | 2                    | C        | 29.25   | +0.23                                   | 48          | 45   | -4                                      | NNW   | 2                    | 0        | *                 | 53             | 46   | —                         |
| Wiesbaden ...  | *  | *                  | *     | *                    | *        | 29.19   | +0.20                                   | 42          | 41   | -6                                      | X     | 0                    | f        | *                 | 52             | 39   | 0.25                      |
| Munich ...   | 29.07                                    | 42                 | X     | 0                    | 6        | 29.18   | +0.19                                   | 40          | 39   | -4                                      | NW    | 2                    | m        | *                 | 55             | 34   | —                         |
| GERMANY.   |  |                    |       |                      |          |   |   |             |      |   |       |                      |          |                   |                |      |                           |
| The Helder ...   | 29.10                                    | 53                 | NR    | 3                    | C        | 29.15   | +0.18                                   | 53          | 51   | +2                                      | NW    | 1                    | f        | 2                 | 55             | ?    | 0.12                      |
| Brussels ...   | *  | *                  | *     | *                    | *        | 29.22   | +0.22                                   | 45          | 45   | -3                                      | N     | 1                    | f        | *                 | 54             | 44   | 0.55                      |
| Cape Gris Nez...   | 29.09                                    | 54                 | N     | 7                    | C        | 29.21   | +0.24                                   | 53          | 51   | 0.0                                     | NNR   | 4                    | f        | 4                 | 6              | 46   | 0.16                      |
| Paris ...  | 29.04                                    | 48                 | X     | 0                    | 6        | 29.21   | +0.21                                   | 42          | 42   | +3                                      | N     | 1                    | 6        | *                 | 53             | ?    | —                         |
| Brest ...  | 29.10                                    | 54                 | ENE   | 4                    | C        | 29.24   | +0.24                                   | 51          | 48   | 0.0                                     | N     | 1                    | 6        | 2                 | 63             | 44   | 0.22                      |
| Lorient ...  | 29.06                                    | 54                 | ENE   | 5                    | 6C       | 29.22   | +0.25                                   | 51          | 49   | 0.0                                     | NNR   | 3                    | 6C       | 2                 | 61             | 43   | —                         |
| Rochefort ...  | 29.04                                    | 59                 | NE    | 5                    | 6        | 29.16   | +0.21                                   | 49          | 48   | 0.0                                     | ENE   | 5                    | 6        | 2                 | 70             | 45   | —                         |
| Belfort ...  | *  | *                  | *     | *                    | *        | 29.14   | +0.14                                   | 29          | ?    | -3                                      | NNR   | 1                    | 6        | *                 | 59             | ?    | *                         |
| Lyons ...  | 29.96                                    | 53                 | X     | 0                    | 2        | 29.05   | +0.12                                   | 57          | 48   | 0.0                                     | ENE   | 3                    | 6        | 2                 | 66             | 48   | —                         |
| Nice ...   | 29.99                                    | 55                 | NR    | 1                    | 6        | 29.07   | +0.13                                   | 51          | 49   | 0.0                                     | SW    | 1                    | 6        | *                 | 67             | 47   | —                         |
| Perpignan ...  | 29.97                                    | 57                 | WSW   | 5                    | 0        | 29.10   | +0.23                                   | 54          | 50   | -3                                      | WSW   | 4                    | 0        | 2                 | 63             | 52   | 0.12                      |
| Gorunna ...  | *  | *                  | *     | *                    | *        | 29.14   | +0.13                                   | 60          | 56   | +3                                      | NR    | 3                    | 6C       | ?                 | 66             | ?    | 0.12                      |
| Lisbon ...   | 29.10                                    | 57                 | N     | 5                    | 6        | 29.15   | +0.11                                   | 57          | 54   | +2                                      | NNW   | 4                    | 6        | 2                 | 60             | 54   | 0.04                      |

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on

Sunday 2<sup>nd</sup> October

1887.

## BAROMETER, WIND & 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.

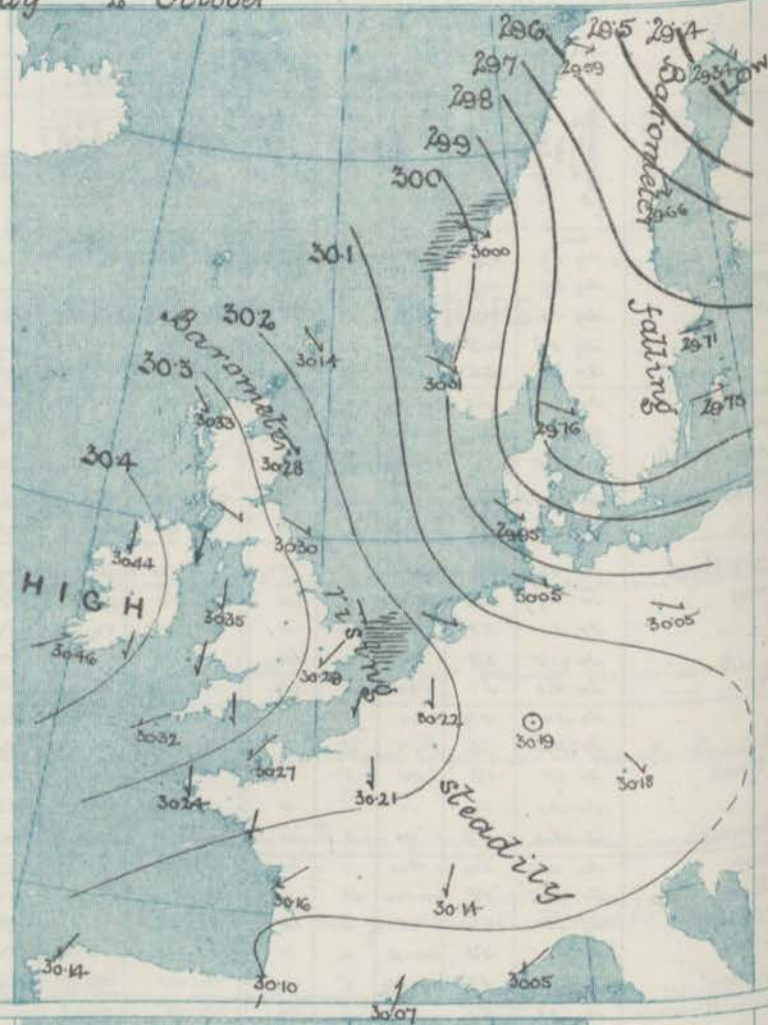
**Sea Disturbance** — where considerable is shown thus

■ = Rough. ■ = High.

## MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of October.  
During the 10 Years 1871—1880.

| STATIONS.     | MEAN READINGS. |
|---------------|----------------|
|               | in.            |
| Sumburgh Head | 29.685         |
| Stornoway     | 29.707         |
| Wick          | 29.718         |
| Nairn         | 29.738         |
| Aberdeen      | 29.748         |
| Leith         | 29.780         |
| Shields       | 29.821         |
| York          | 29.860         |
| Ardrossan     | 29.749         |
| Donaghadee    | 29.805         |
| Holyhead      | 29.880         |
| Liverpool     | 29.848         |
| Valencia      | 29.842         |
| Roche's Point | 29.843         |
| Pembroke      | 29.847         |
| Scilly        | 29.877         |
| Hurst Castle  | 29.894         |
| Dover         | 29.907         |
| LONDON        | 29.902         |
| Oxford        | 29.891         |
| Cambridge     | 29.894         |
| Yarmouth      | 29.889         |



## TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

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

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

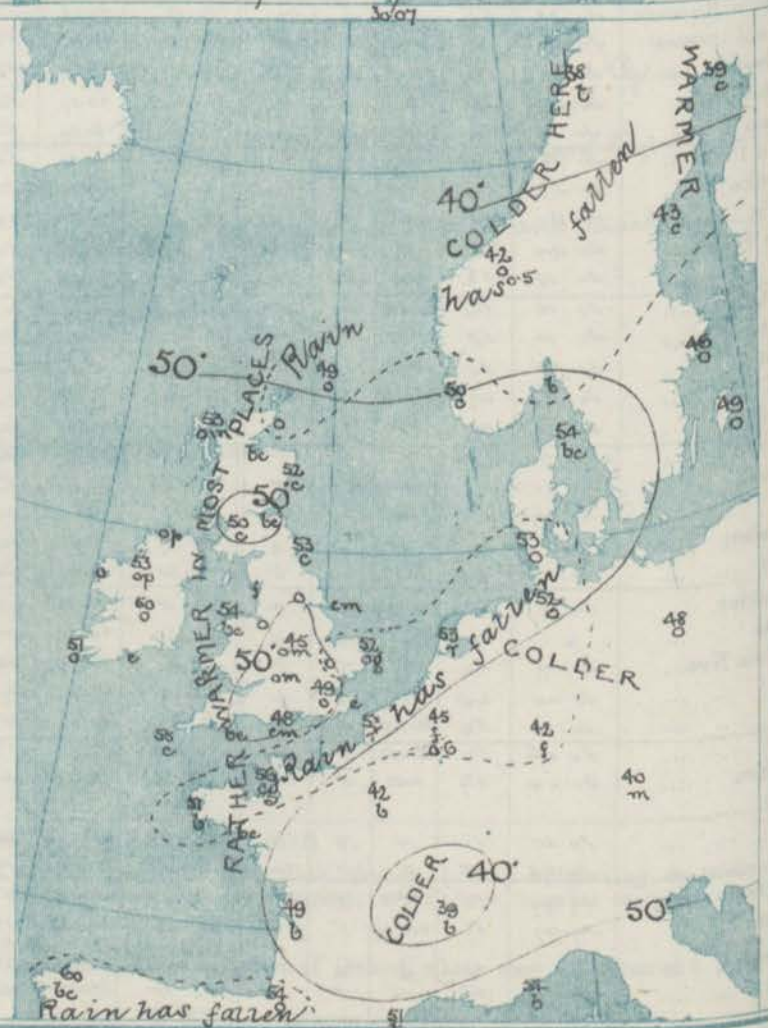
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of October

| STATIONS      | TEMPERATURE. |            |           |           | RAINFALL (Inches) |
|---------------|--------------|------------|-----------|-----------|-------------------|
|               | Daily Max    | Daily Min. | At 8 a.m. | At 8 a.m. |                   |
|               |              |            | Dry.      | Wet.      |                   |
| Sumburgh Head | 40.5         | 41.6       | 45.9      | 44.4      | 4.33              |
| Stornoway     | 50.2         | 38.8       | 45.1      | 43.9      | 4.94              |
| Wick          | 51.6         | 40.0       | 46.0      | 44.3      | 2.94              |
| Nairn         | 51.4         | 40.7       | 44.6      | 42.5      | 2.38              |
| Aberdeen      | 52.1         | 41.3       | 45.5      | 43.5      | 2.88              |
| Leith         | 55.3         | 41.9       | 46.7      | 45.1      | 1.94              |
| Shields       | 53.2         | 43.1       | 47.3      | 45.5      | 2.46              |
| York          | 55.2         | 40.9       | 46.0      | 44.7      | 2.64              |
| Ardrossan     | 53.7         | 43.2       | 47.7      | 45.4      | 4.31              |
| Donaghadee    | 53.2         | 43.2       | 47.8      | 46.8      | 3.35              |
| Holyhead      | 54.9         | 47.5       | 50.4      | 48.6      | 4.58              |
| Liverpool     | 54.0         | 44.9       | 48.0      | 46.2      | 3.62              |
| Valencia      | 56.7         | 46.5       | 51.3      | 49.1      | 6.09              |
| Roche's Point | 55.6         | 46.4       | 50.4      | 48.6      | 4.17              |
| Pembroke      | 55.1         | 48.4       | 51.5      | 49.4      | 4.13              |
| Scilly        | 56.8         | 50.7       | 53.9      | 52.0      | 3.84              |
| Hurst Castle  | 57.7         | 46.8       | 51.5      | 50.5      | 3.24              |
| Dover         | 56.2         | 47.8       | 51.5      | 49.4      | 3.28              |
| LONDON        | 57.1         | 43.5       | 48.4      | 46.9      | 2.74              |
| Oxford        | 55.7         | 42.9       | 47.0      | 45.8      | 2.72              |
| Cambridge     | 57.0         | 41.6       | 46.6      | 45.7      | 2.36              |
| Yarmouth      | 54.0         | 45.1       | 49.5      | 48.2      | 2.97              |

NOTE — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 10 years 1866—85





## GENERAL SITUATION AT 8 A.M.

|             |   |
|-------------|---|
| PRESSURE    | <i>Highest, 30.4 ins. and more, at the Irish stations, 30.1 ins. and more over Spain.<br/>Lowest, 29.05 in the south of France, 29.7 ins. over the south of Sweden, 29.3 ins. in a depression over eastern part of Lapland.<br/>Gradients, slight in our Islands, moderate over North Sea. Barometer rising over the British Isles, France falling over the Baltic and eastern shores of the North Sea.</i> |
| TEMPERATURE | <i>Highest, 57° at Lisbon, 55° at Scilly, 54° at Holyhead, and 53° at Stornoway.<br/>Lowest, 38° at Bodø, 39° at Haparanda, 40° at Munich, 42° at Paris and Christiansand.<br/>It had fallen during the day at the German and Norwegian stations, risen slightly in Scotland.</i>   |
| WIND        | <i>Light from North-westward in our north and northeast coasts — light to moderate, N. by E. in the west and on the Spanish coasts.<br/>Light to moderate N.E. by E. in the Channel and west of France — but W.S.W. by S. at Biscarritz.<br/>A fresh gale from N.W. prevailed in the northwest of Norway, and W. by S. to N.W. by E. breezes over Sweden, Denmark &amp; Germany.</i>                        |
| WEATHER     | <i>Changeable over Scandinavia, dull, foggy and rather rainy in the Netherlands.<br/>Fair generally elsewhere, but with much cloud over the British Isles.<br/>A good deal of rain had fallen on most of the North Sea coasts and at Haparanda. Thunder was reported at Perpignan and also at Bodø.</i>   |
| SEA         | <i>Rather rough at Harwich, moderate at G. Br. N. by E. at several of our northern and northeastern stations, slight or smooth elsewhere.</i>   |

### PROBABLE CHANGES IN SYSTEM NOW PREVALENT

*The depression in the far north, did not seem likely to affect the weather in our Islands to any appreciable extent.*

## FORECASTS

for the 24 hours ending at NOON on 3<sup>rd</sup> OCTOBER 1887.

### 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

*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.  | Dry. | Wet. | Wind. | Wes. | Sea. |               | Bar.  | Dry. | Wet. | Wind. | Wes. | Sea. |
|-------------------|-------|------|------|-------|------|------|---------------|-------|------|------|-------|------|------|
| Skudesnaes ...    | 30.03 | 52   | 48   | NW 2  | T    | 3    | Holyhead ...  | 30.45 | 53   | 52   | N 2   | c    | 2    |
| Gumburgh Head ... | 30.06 | 51   | 50   | NW 2  | 0    | 2    | Valencia ...  | 30.30 | 60   | 58   | N 2   | bm   | 3    |
| Stornoway ...     | 30.25 | 54   | 53   | NW 4  | 0m   | 4    | Scilly ...    | 30.16 | 57   | 53   | NE 5  | 6    | 4    |
| Aberdeen ...      | 30.21 | 55   | 52   | NW 4  | 6c   | 1    | Dungeness ... | 30.07 | 53   | 53   | NE 3  | c    | 2    |
| Shields ...       | 30.22 | 51   | 48   | N 2   | 0    | 4    | London ...    | 30.12 | 53   | 52   | NW 3  | 6c   | 5    |
| Ardrossan ...     | 30.22 | 53   | 54   | NW 4  | c    | 3    | Yarmouth ...  | 30.09 | 54   | 53   | N 4   | opq  | 3    |
| Malin Head ...    | 30.21 | 53   | 51   | NW 3  | 0    | 2    | Jersey ...    | 30.09 | 53   | 54   | NE 3  | 6c   | 2    |
| Mullaghmore ...   | 30.01 | 55   | 52   | N 2   | 0    | 2    | Rocheport ... | 30.41 | 67   | 57   | ENE 4 | 6c   |      |
| Belmullet ...     | 30.35 | 55   | 52   | NW 2  | 0    | *    |               |       |      |      |       |      |      |

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

The report for yesterday morning showed that while pressure was still highest over and to the westward of our Islands, and lowest over central and western Europe the gradients were slight everywhere, and the distributions becoming less complex than it had been for some days past. N. and N.E. winds still prevailed over the Baltic, the British Isles, the Channel and Bay of Biscay, and variable light breezes elsewhere. The weather was in an unsettled showery and changeable condition on the Continent, but was fair elsewhere though cloudy in places. Temperature had fallen in most places and varied from 77° and more over the southeastern part of the Mediterranean and from between 46° and 55° over the British Isles to several degrees below the freezing point over northern Europe and to very nearly the freezing point over France. The highest individual values were 77° at Palermo, 75° at Constantinople, Brindisi and Spa (Algeria) 71° at Lissina 70° at Cagliari and Naples; the lowest 22° at Archangel, 31° at Knopis, 33° at Haparanda, 34° at Clermont, 39° at Paris and 42° at Lyons. Later in the day the Continental disturbances continued to fill up slowly, but a new depression came over Lapland and the north of Scandinavia from the Atlantic.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for Monday 3<sup>rd</sup> October 1887.

Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

| 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 (6 to 9.) | SHADE TEMP. |                | Amount of Rainfall. |  |
|                            |                                    |                 | Dir.  | Force. (0 to 12.) |          | Reading at 32° F. and Sea Level. | Difference from 8 a.m. yesterday. | Dry.        | Wet. | Difference from 8 a.m. yesterday. | Dir.  | Force. (0 to 12.) |          |               | Max.        | Min.           |                     |  |
| SCANDINAVIA.               |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |               |             |                |                     |  |
| Haparanda ..               | 29.56                              | 33              | NW    | 4                 | b        | 29.58                            | + .24                             | 28          | 27   | - 11                              | W     | 0                 | b        | *             | 45          | ?              | -                   |  |
| Hernösand ...              | 29.82                              | 37              | NW    | 4                 | b        | 29.76                            | + .10                             | 38          | 35   | - 5                               | N     | 2                 | b        | *             | 46          | 36             | -                   |  |
| Stockholm ...              | 29.88                              | ?               | NW    | 2                 | b        | 29.91                            | + .20                             | 37          | 32   | - 9                               | NW    | 2                 | b        | *             | 50          | 37             | -                   |  |
| Wisby ...                  | 29.82                              | 48              | N     | 6                 | bc       | 29.91                            | + .18                             | 42          | 37   | - 7                               | N     | 8                 | c        | *             | 50          | ?              | -                   |  |
| Bodö ...                   | 29.81                              | 37              | NW    | 6                 | o        | 29.85                            | - .04                             | 39          | 37   | + 1                               | W     | 4                 | T        | 3             | 39          | 36             | 0.08                |  |
| Christiansund...           | 30.07                              | 42              | NW    | 4                 | c        | 29.68                            | - .32                             | 49          | 48   | + 7                               | SW    | 9                 | T        | 6             | ?           | 37             | 0.12                |  |
| Skudesnaes ...             | 30.09                              | 45              | NW    | 2                 | o        | 30.09                            | + .08                             | 46          | 45   | - 4                               | NW    | 1                 | o        | 2             | 50          | 45             | -                   |  |
| Christiania Fjord (Færdor) | 29.95                              | 52              | N     | 2                 | c        | 29.93                            | + .17                             | 51          | 47   | - 1                               | SSW   | 5                 | c        | 3             | 54          | 45             | -                   |  |
| Skagen (The Scaw)          | 30.02                              | 48              | E     | 1                 | b        | 30.01                            | + .25                             | 49          | 45   | - 5                               | NW    | 2                 | o        | 2             | 57          | 45             | -                   |  |
| Fanö ...                   | 30.00                              | 49              | NW    | 4                 | b        | 30.11                            | + .16                             | 48          | 47   | - 5                               | W     | 0                 | c        | *             | 57          | 39             | -                   |  |
| BRITISH ISLANDS.           |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |               |             |                |                     |  |
| Sumburgh Head              | 30.18                              | 51              | NW    | 1                 | o        | 30.14                            | - .00                             | 51          | 50   | + 2                               | NW    | 4                 | o        | 3             | 52          | 47             | 0.03                |  |
| Stornoway ...              | 30.36                              | 54              | NW    | 3                 | om       | 30.36                            | + .03                             | 54          | 53   | + 1                               | W     | 3                 | om       | 3             | 56          | 49             | -                   |  |
| Wick ...                   | 30.29                              | 50              | NW    | 3                 | o        | 30.29                            | + .03                             | 54          | 52   | + 3                               | NW    | 5                 | bc       | 1             | 55          | 48             | -                   |  |
| Nairn ...                  | 30.36                              | 54              | NW    | 1                 | o        | 30.36                            | + .04                             | 53          | 50   | + 2                               | SW    | 1                 | bc       | 1             | 56          | 50             | -                   |  |
| Aberdeen...                | 30.30                              | 54              | NW    | 3                 | o        | 30.34                            | + .06                             | 53          | 50   | + 1                               | NW    | 3                 | c        | 1             | 55          | 50             | -                   |  |
| Leith ...                  | 30.34                              | 54              | W     | 1                 | c        | 30.39                            | + .09                             | 52          | 48   | + 3                               | W     | 1                 | bc       | *             | 64          | 48             | -                   |  |
| Shields ...                | 30.32                              | 54              | NW    | 1                 | o        | 30.39                            | + .09                             | 53          | 48   | 0                                 | W     | 3                 | c        | 2             | 57          | 48             | -                   |  |
| Spurn Head ...             | 30.25                              | 53              | NW    | 4                 | bc       | 30.36                            | + .09                             | 52          | 51   | + 1                               | NW    | 5                 | cg       | 4             | 55          | 43             | 0.02                |  |
| York ...                   | 30.34                              | 51              | N     | 1                 | c        | 30.41                            | + .10                             | 51          | 48   | + 1                               | NW    | 1                 | o        | *             | 59          | 48             | -                   |  |
| Loughborough               | 30.34                              | 53              | NW    | 2                 | o        | 30.42                            | + .09                             | 51          | 48   | + 6                               | NW    | 1                 | cg       | *             | 59          | 44             | -                   |  |
| GERMANY.                   |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |               |             |                |                     |  |
| Arrossan ...               | 30.37                              | 55              | NW    | 1                 | o        | 30.42                            | + .08                             | 54          | 51   | + 4                               | W     | 0                 | o        | 0             | 59          | 48             | -                   |  |
| Malin Head ...             | 30.44                              | 54              | NW    | 3                 | o        | 30.48                            | + .08                             | 56          | 55   | + 4                               | NW    | 3                 | o        | 3             | 56          | 51             | -                   |  |
| Mallaghmore ...            | 30.46                              | 54              | NW    | 4                 | o        | 30.50                            | + .06                             | 54          | 50   | + 1                               | NW    | 2                 | o        | 2             | 55          | 51             | -                   |  |
| Belanisset ...             | 30.50                              | 54              | NW    | 2                 | o        | 30.53                            | + .05                             | 53          | 50   | 0                                 | NW    | 1                 | o        | *             | 61          | 51             | 0.01                |  |
| Donaghadee ...             | 30.40                              | 55              | NW    | 4                 | o        | 30.47                            | + .09                             | 56          | 51   | + 1                               | NW    | 3                 | c        | 2             | 57          | 52             | -                   |  |
| FRANCE & NETHERLANDS.      |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |               |             |                |                     |  |
| Barrow-in-Furness          | 30.33                              | 55              | NW    | 1                 | c        | 30.45                            | + .10                             | 52          | 49   | + 2                               | NW    | 1                 | f        | *             | 57          | 49             | -                   |  |
| Liverpool (Bidston)        | 30.35                              | 52              | NW    | 1                 | o        | 30.43                            | + .11                             | 52          | 48   | + 1                               | W     | 1                 | o        | 1             | 58          | 51             | -                   |  |
| Holyhead ...               | 30.37                              | 55              | NW    | 4                 | c        | 30.44                            | + .09                             | 55          | 50   | + 1                               | N     | 2                 | o        | 2             | 59          | 52             | -                   |  |
| Parsonstown ...            | 30.46                              | 53              | W     | 0                 | o        | 30.52                            | + .07                             | 50          | 48   | 0                                 | W     | 0                 | o        | *             | 55          | 48             | -                   |  |
| Valencia ...               | 30.47                              | 55              | NW    | 2                 | ov       | 30.51                            | + .05                             | 50          | 50   | + 2                               | NW    | 1                 | o        | 2             | 57          | 50             | -                   |  |
| Roche's Point...           | 30.44                              | 54              | NW    | 2                 | c        | 30.46                            | + .05                             | 53          | 51   | 0                                 | NW    | 2                 | c        | 3             | 56          | 50             | -                   |  |
| Pembroke ...               | 30.36                              | 54              | NW    | 3                 | c        | 30.43                            | + .08                             | 51          | 51   | - 3                               | NW    | 2                 | c        | 0             | 56          | 46             | -                   |  |
| Scilly ...                 | 30.24                              | 60              | NW    | 4                 | c        | 30.38                            | + .06                             | 55          | 53   | 0                                 | E     | 2                 | o        | 3             | 58          | 53             | -                   |  |
| Prawle Point ...           | 30.35                              | 53              | N     | 3                 | c        | 30.42                            | + .10                             | 51          | 49   | - 2                               | NW    | 2                 | o        | 2             | 61          | 44             | -                   |  |
| Jersey ...                 | 30.31                              | 57              | NW    | 3                 | og       | 30.38                            | + .11                             | 56          | 52   | 0                                 | NW    | 2                 | om       | 2             | 60          | 53             | -                   |  |
| SPAIN.                     |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |               |             |                |                     |  |
| Hurst Castle ...           | 30.31                              | 55              | NW    | 1                 | c        | 30.40                            | + .11                             | 51          | 50   | + 3                               | NW    | 2                 | om       | 1             | 59          | 46             | -                   |  |
| Dungeness ...              | 30.28                              | 54              | NW    | 2                 | c        | 30.32                            | + .07                             | 50          | 50   | 0                                 | NW    | 3                 | bc       | 2             | 56          | 48             | -                   |  |
| London ...                 | 30.32                              | 54              | NW    | 2                 | bc       | 30.39                            | + .10                             | 52          | 48   | + 3                               | N     | 1                 | og       | *             | 56          | 50             | -                   |  |
| Oxford ...                 | 30.36                              | 50              | N     | 1                 | o        | 30.42                            | + .10                             | 50          | 47   | + 3                               | NW    | 2                 | o        | *             | 55          | 47             | -                   |  |
| Cambridge ...              | 30.34                              | 51              | N     | 1                 | o        | 30.40                            | + .12                             | 51          | 49   | + 2                               | N     | 1                 | o        | *             | 56          | 47             | -                   |  |
| Yarmouth ...               | 30.25                              | 53              | NW    | 4                 | cg       | 30.31                            | + .08                             | 53          | 51   | + 1                               | NW    | 4                 | c        | 4             | 55          | 49             | 0.08                |  |
| Cuxhaven ...               | 29.97                              | 48              | NW    | 5                 | o        | 30.13                            | + .08                             | 51          | 50   | - 1                               | NW    | 2                 | b        | *             | 54          | 48             | 0.06                |  |
| Berlin ...                 | 29.96                              | ?               | W     | 4                 | T        | 30.06                            | + .01                             | 50          | 49   | + 2                               | NW    | 2                 | o        | *             | 57          | 48             | 0.08                |  |
| Wiesbaden ...              | *                                  | *               | *     | *                 | *        | 30.21                            | + .02                             | 51          | 50   | + 9                               | W     | 0                 | o        | *             | 57          | ?              | -                   |  |
| Munich ...                 | 30.19                              | 42              | W     | 1                 | m        | 30.24                            | + .06                             | 43          | 41   | + 3                               | SW    | 3                 | o        | *             | 50          | 37             | -                   |  |
| PORTUGAL.                  |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |               |             |                |                     |  |
| The Helder ...             | 30.15                              | 54              | NW    | 4                 | o        | 30.23                            | + .08                             | 53          | 52   | 0                                 | N     | 4                 | o        | 3             | 55          | 52             | 0.35                |  |
| Brussels ...               | *                                  | *               | *     | *                 | *        | 30.28                            | + .06                             | 53          | 52   | + 8                               | NW    | 1                 | o        | *             | 56          | ?              | 0.08                |  |
| Cape Gris Nez...           | 30.26                              | 55              | N     | 5                 | o        | 30.30                            | + .09                             | 53          | 52   | 0                                 | N     | 2                 | o        | ?             | 57          | 48             | 0.04                |  |
| Paris ...                  | 30.26                              | 50              | N     | 1                 | o        | 30.30                            | + .09                             | 51          | 50   | + 9                               | NW    | 8                 | T        | *             | 60          | ?              | 0.04                |  |
| Brest ...                  | 30.28                              | 54              | N     | 5                 | o        | 30.38                            | + .14                             | 50          | 47   | - 1                               | NW    | 3                 | o        | 3             | 63          | 37             | -                   |  |
| AFRICA.                    |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |               |             |                |                     |  |
| Lorient ...                | *                                  | *               | *     | *                 | *        | *                                | *                                 | *           | *    | *                                 | *     | *                 | *        | *             | *           | *              | *                   |  |
| Rochefort ...              | 30.22                              | 58              | NW    | 4                 | bc       | 30.32                            | + .16                             | 48          | 47   | - 1                               | NW    | 5                 | b        | 2             | 70          | 45             | -                   |  |
| Belfort ...                | 30.17                              | 57              | N     | 1                 | b        | 30.24                            | *                                 | 44          | 41   | *                                 | NW    | 1                 | bc       | *             | 57          | 33             | -                   |  |
| Lyons ...                  | 30.16                              | 52              | NW    | 1                 | b        | 30.30                            | *                                 | 43          | 41   | *                                 | N     | 1                 | b        | *             | 58          | 41             | -                   |  |
| Nice ...                   | 30.07                              | 55              | ESC   | 4                 | o        | 30.07                            | + .02                             | 38          | ?    | + 4                               | NW    | 1                 | b        | 1             | ?           | ?              | -                   |  |
| ASIA.                      |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |               |             |                |                     |  |
| Perpignan ...              | 30.07                              | 54              | W     | 0                 | o        | 30.16                            | + .09                             | 51          | 49   | 0                                 | SW    | 1                 | b        | *             | 65          | 45             | 0.04                |  |
| Biarritz ...               | 30.13                              | 59              | N     | 5                 | b        | 30.22                            | + .12                             | 53          | 49   | - 1                               | SW    | 4                 | b        | 1             | 63          | 48             | 0.12                |  |
| Corunna ...                | *                                  | *               | *     | *                 | *        | *                                | *                                 | *           | *    | *                                 | *     | *                 | *        | *             | *           | *              | *                   |  |
| Lisbon ...                 | 30.11                              | 58              | NW    | 5                 | b        | 30.05                            | - .10                             | 53          | 52   | - 4                               | NW    | 4                 | b        | 2             | 66          | 50             | -                   |  |

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on Monday, 3<sup>rd</sup> October 1887.

## BAROMETER, WIND & SEA.

(Explanation of Map)

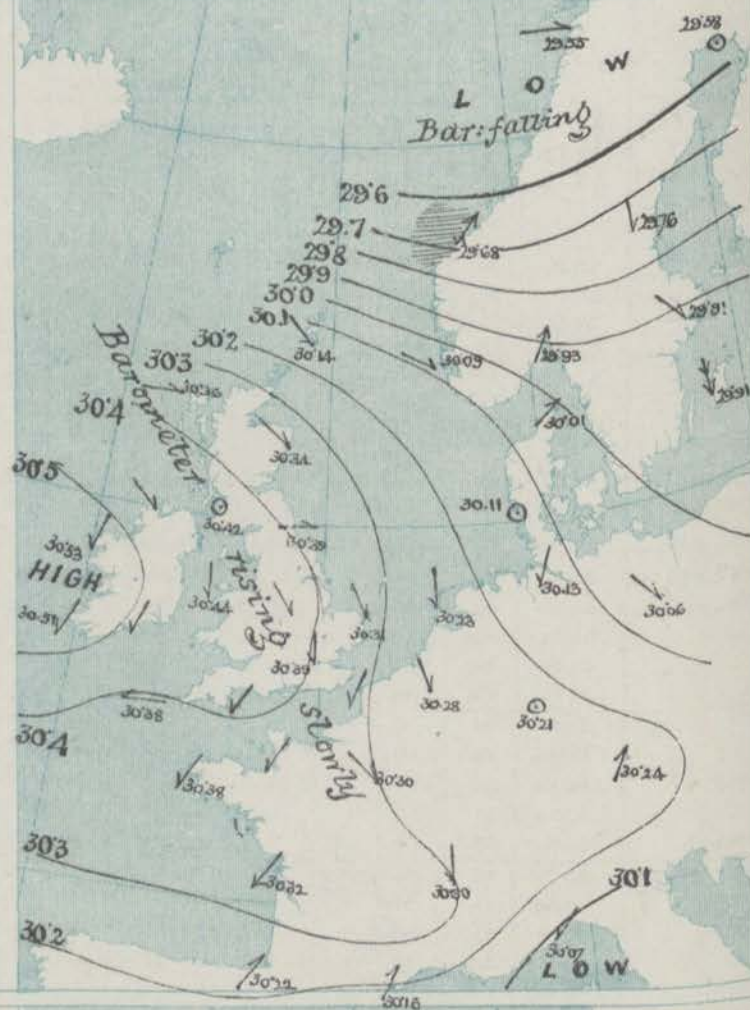
**Barometer** — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.  
**Wind** — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —  
 — forces above 10, — forces 8 to 10,  
 — forces 5 to 7, — forces 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 10 Years 1871—1880.

| STATIONS.     | MEAN READINGS. |
|---------------|----------------|
| Sumburgh Head | 29.695         |
| Stornoway     | 29.707         |
| Wick          | 29.718         |
| Nairn         | 29.788         |
| Aberdeen      | 29.748         |
| Leith         | 29.780         |
| Shields       | 29.821         |
| York          | 29.860         |
| Ardrossan     | 29.749         |
| Donaghadee    | 29.805         |
| Holyhead      | 29.830         |
| Liverpool     | 29.848         |
| Valencia      | 29.842         |
| Roche's Point | 29.843         |
| Pembroke      | 29.847         |
| Scilly        | 29.877         |
| Hurst Castle  | 29.894         |
| Dover         | 29.907         |
| LONDON        | 29.902         |
| Oxford        | 29.891         |
| Cambridge     | 29.894         |
| Yarmouth      | 29.889         |



## TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

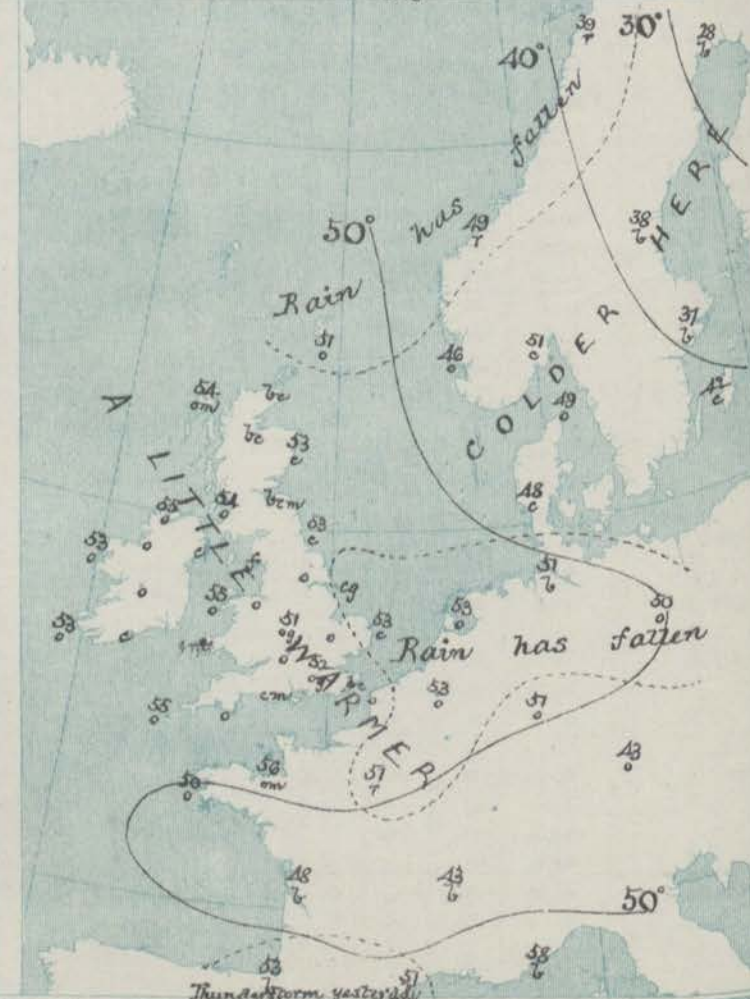
**Temperature** — Isotherms are drawn for each 10° Changes since previous morning are stated in words.  
**Weather** — is shown by Letters of the Beaufort Scale.  
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more,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

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of October

| STATIONS.     | TEMPERATURE. |            |           |           | RAINFALL (Inches) |
|---------------|--------------|------------|-----------|-----------|-------------------|
|               | Daily Max.   | Daily Min. | At 8 a.m. | At 4 p.m. |                   |
| Sumburgh Head | 49.5         | 41.6       | 45.9      | 44.4      | 4.33              |
| Stornoway     | 50.2         | 38.8       | 45.1      | 43.9      | 4.94              |
| Wick          | 51.8         | 40.0       | 45.0      | 44.3      | 2.94              |
| Nairn         | 51.4         | 40.7       | 44.6      | 42.6      | 2.33              |
| Aberdeen      | 52.1         | 41.3       | 45.5      | 43.5      | 2.88              |
| Leith         | 55.3         | 41.9       | 46.7      | 45.1      | 1.94              |
| Shields       | 53.2         | 43.1       | 47.3      | 45.5      | 2.46              |
| York          | 55.2         | 40.9       | 46.0      | 44.7      | 2.64              |
| Ardrossan     | 53.7         | 43.2       | 47.7      | 45.4      | 4.21              |
| Donaghadee    | 53.2         | 43.2       | 47.8      | 46.8      | 3.35              |
| Holyhead      | 54.9         | 47.5       | 50.4      | 48.6      | 4.53              |
| Liverpool     | 54.0         | 44.9       | 48.0      | 46.2      | 3.62              |
| Valencia      | 56.7         | 46.5       | 51.3      | 49.1      | 6.09              |
| Roche's Point | 55.6         | 46.4       | 50.4      | 48.6      | 4.17              |
| Pembroke      | 55.1         | 48.4       | 51.5      | 49.4      | 4.13              |
| Scilly        | 56.8         | 50.7       | 53.9      | 52.0      | 3.64              |
| Hurst Castle  | 57.7         | 46.8       | 51.5      | 50.5      | 3.24              |
| Dover         | 58.2         | 47.8       | 51.5      | 49.4      | 3.28              |
| LONDON        | 57.1         | 43.5       | 48.4      | 46.9      | 2.74              |
| Oxford        | 55.7         | 42.9       | 47.0      | 45.8      | 2.72              |
| Cambridge     | 57.0         | 41.6       | 46.6      | 45.7      | 2.86              |
| Yarmouth      | 54.0         | 45.1       | 49.5      | 48.2      | 2.97              |

Note — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 20 years 1865—85.





## GENERAL SITUATION AT 8 A.M.

### PRESSURE

*Highest*, 30.40 to 30.53 in. over the whole of Ireland, Wales and the west of England.  
*Lowest*, 29.5 in. over the north of Scandinavia, 29.91 in. at Luleå and 30.05 in. at Luleå.  
*Gradients*, slight in our islands, moderate over the North Sea, rather steep off the west coast of Norway.  
*Barometer* rising slowly except in the far north, where it is falling fast.

### TEMPERATURE

*Highest*, 58° at Nice, 55° at Seilly, Holyhead and Malin Head, 54° at Stornoway and 53° at the Helder and Brussels.  
*Lowest*, 28° at Haparanda, 37° at Stockholm, 38° at Helsingfors, 39° at Rode, 43° at Munich and Lyons.  
 It is inclined to rise a little over the British Islands, France and Germany, but has fallen fast in Sweden.

### WIND

*W*<sup>st</sup>, moderate to fresh in the northwest of Scotland and on our northeast coast. — *St.*<sup>h</sup> gale in the west of Norway.  
*N*<sup>th</sup> and *NE* light to moderate at our western and southern stations, as well as over the Channel, Bay of Biscay and Portugal.  
 In Sweden it is light from *N*, but a *N*<sup>th</sup> gale is blowing at Luleå.

### WEATHER

Fair, but dull over the British Islands — dull and rainy in the west of Norway and northeast of France.  
 Fine and bright over Southern Europe and also over Sweden.

### SEA

Rather rough in the far north, slight or smooth elsewhere.

### PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression in the far north will probably cause unsettled weather at some of our northern stations, but no important change is indicated at present for Ireland, England and France.

## FORECASTS

for the 24 hours ending at NOON on 4<sup>th</sup> OCTOBER 1887.

### DISTRICTS.



#### FORECASTS.

|   |                  |  |
|---|------------------|--|
| 0 | SCOTLAND NORTH   | <i>NW</i> <sup>th</sup> and <i>W</i> <sup>th</sup> winds, freshening; some rain.             |
| 1 | SCOTLAND EAST    | <i>NW</i> <sup>th</sup> breezes, moderate; cloudy, fair as a whole.                          |
| 2 | ENGLAND N.E.     | ..... <i>D</i> <sup>th</sup> ..... <i>D</i> <sup>th</sup> ..... <i>D</i> <sup>th</sup> ..... |
| 3 | ENGLAND EAST     | Same as <i>N</i> <sup>o</sup> 5.   |
| 4 | MIDLAND COUNTIES | Same as <i>N</i> <sup>o</sup> 5.   |
| 5 | ENGLAND SOUTH    | <i>N</i> <sup>th</sup> breezes; fair, rather cold.   |

### DISTRICTS.

#### FORECASTS.

|          |               |   |
|----------|---------------|---|
| 6        | SCOTLAND WEST | Same as <i>N</i> <sup>o</sup> 0.                          |
| 7        | ENGLAND N.W.  | Same as <i>N</i> <sup>o</sup> 3 to 5.                     |
| 8        | ENGLAND S.W.  | <i>NE</i> <sup>th</sup> breezes, light or moderate; fair. |
| 9        | IRELAND NORTH | Same as <i>N</i> <sup>o</sup> 3 to 5.                     |
| 10       | IRELAND SOUTH | Same as <i>N</i> <sup>o</sup> 8.                          |
| WARNINGS |               | NONE ISSUED.  |

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



# YESTERDAY'S 2 P.M. REPORTS.

|                 | Bar.  | Thy. | Wet. | Wind. | Wes. | Sea. |               | Bar.  | Dry. | Wet. | Wind. | Wes. | Sea. |
|-----------------|-------|------|------|-------|------|------|---------------|-------|------|------|-------|------|------|
| Stuðness ...    | 30.06 | 49   | 45   | 11W 6 | 0    | 3    | Holyhead ...  | 30.38 | 55   | 50   | 11 4  | C    | 3    |
| Sumburgh Head   |       |      |      |       |      |      | Valencia ...  |       |      |      |       |      |      |
| Stornoway ...   | 30.36 | 56   | 55   | 11W 4 | 0    | 3    | Scilly ...    |       |      |      |       |      |      |
| Aberdeen ...    |       |      |      |       |      |      | Dungeness ... | 30.26 | 56   | 51   | 11W 3 | C    | 2    |
| Shields ...     |       |      |      |       |      |      | London ...    |       |      |      |       |      |      |
| Ardrossan ...   |       |      |      |       |      |      | Yarmouth ...  |       |      |      |       |      |      |
| Malin Head ...  | 30.45 | 55   | 55   | 11W 3 | 0    | 3    | Jersey ...    | 30.29 | 60   | 54   | 11W 3 | 50   | 3    |
| Mullaghmore ... |       |      |      |       |      |      | Rocheport ... | 30.21 | 67   | 60   | 11W 5 | 50   | 2    |
| Belmullet ...   | 30.61 | 55   | 52   | 11W 2 | C    | *    |               |       |      |      |       |      |      |

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

Yesterday morning's reports showed that pressure distribution had become much more simple and regular over Europe than it had been for several days previously, the depression noticed over France, Germany, the Baltic and Russia having filled up completely, while a new one had appeared over Lapland. The readings at 8 a.m. varied from between 30.4 in. and 30.5 in. over Ireland, and from 30.2 in. and more over the whole of the British Isles and north of France to 29.3 in. and less over the eastern part of Lapland and the southeastern parts of the Mediterranean. Thus while light to moderate N.W. (N.W. to N.E.) winds and cloudy cold weather prevailed over the British Isles, the north of France, the Bay of Biscay and Spain, N.W. to S.W. winds - moderate to a gale in force - were blowing over Scandinavia, the Baltic, Finland and Germany, with cloudy showery weather, and variable airs over the Baltic with fine weather. Temperature was changing irregularly; it had fallen over Germany, England and Norway, but was rising in Scotland, and ranged from upwards of 80° over the southeast part of the Mediterranean from between 45° and 55° over the British Isles, to less than 40° both over Northern Europe and over parts of Central France. The highest individual values were 82° at Malta, 75° at Brindisi and Constantinople, 75° at Cagliari, 70° at Palermo, 60° at Rome and 53° at Stornoway; the lowest 35° at Umanborg and Kropio, 38° at Rode, 39° at Haparanda, Helsingfors and Blarney, 40° at Munich, 41° at Nancy and 42° at Madrid, Paris and Belfast.

No important change occurred later.

### SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 25<sup>th</sup> SEPTEMBER TO THE 1<sup>st</sup> OCTOBER 1887.

The weather during this week was of a cyclonic unsettled character throughout. At its commencement the anticyclone which had been lying over, and to the westward of, Ireland during the previous week, was moving steadily in a southerly direction and its intensity was decreasing, but although the fall of the barometer was very brisk it spread southwards so quickly that the gradients for W. winds did not become steep, and the winds therefore did not become unusually strong on our coasts. Temperatures changed frequently and considerably and rain set in, first in the land N. and afterwards in other regions. On Monday morning a well formed, but not deep depression had appeared off the coast of Norway, and as the barometer continued to fall over the United Kingdom, and North Sea, a hollow was developed in the East on Tuesday, causing N.W. breezes over the British Islands and S.W. to E. on the East shores of the North Sea. The sky became cloudy, rain fell at times, in all districts (heavily at Liverpool) and thunderstorms occurred locally. During the remainder of the week a large shallow depression, which was formed over Great Britain early in the 28<sup>th</sup>, travelled southwards to France and while N.E. winds spread gradually over the Kingdom showers of rain fell daily, and thunder and lightning occurred with unusual frequency for the time of year except in the south east.

A singular phenomenon was observed in the remarkable clearness of the sky over the northern half of Great Britain during the early hours of Wednesday at which time the depression referred to above lay completely over us. Owing to the great radiation of heat from the ground a sharp frost occurred in those regions, and this was repeated subsequently over the east and south Midland Counties on the following night.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for Tuesday 4<sup>th</sup> October 1887.

Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

| 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 Rain. |
|                                  |                                    |                 | Dir.  | Force. (0 to 12.) |          |  | Reading at 8 A.M. and Sea Level. | Difference from 8 A.M. yesterday. | Dry.        | Wet. | Difference from 8 A.M. yesterday. | Dir.  | Force. (0 to 12.) |          |                |  | Max.           | Min. |                 |
| <b>SCANDINAVIA.</b>              |                                    |                 |       |                   |          |  |                                  |                                   |             |      |                                   |       |                   |          |                |  |                |      |                 |
| Haparanda ...                    | 29.53                              | 28              | 2     | 0                 | c        |  | 29.58                            | -.05                              | 28          | 27   | 0                                 | N     | 2                 | 0        | *              |  | 42             | 37   | -               |
| Hernösand ...                    | 29.56                              | 38              | 2     | 0                 | o        |  | 29.58                            | -.12                              | 43          | 40   | + 5                               | N     | 4                 | 0        | *              |  | 48             | 34   | 0.04            |
| Stockholm ...                    | 29.62                              | 42              | NW    | 2                 | o        |  | 29.73                            | -.18                              | 45          | 41   | + 8                               | NW    | 2                 | 0        | *              |  | 46             | 32   | 0.04            |
| Wisby ...                        | 29.62                              | 48              | W     | 6                 | o        |  | 29.71                            | -.20                              | 49          | 45   | + 7                               | NW    | 6                 | 6c       | *              |  | 50             | 39   | -               |
| Bodö ...                         | 29.47                              | 37              | 2     | 0                 | b        |  | 29.63                            | + .08                             | 36          | 34   | - 3                               | NW    | 2                 | 6        | 1              |  | 34             | 34   | 0.08            |
| Christiansund ...                | 29.80                              | 50              | W     | 9                 | o        |  | 29.78                            | + .10                             | 50          | 48   | + 1                               | W     | 9                 | 4        | 6              |  | 58             | 47   | 0.88            |
| Skudesnaes ...                   | 30.00                              | 52              | NW    | 7                 | T        |  | 30.08                            | -.01                              | 52          | 48   | + 6                               | NW    | 6                 | 0        | 4              |  | 54             | 46   | -               |
| Christiania Fjord (Færder)       | 29.73                              | 55              | W     | 3                 | b        |  | 29.80                            | -.13                              | 54          | 50   | + 3                               | NW    | 3                 | 6c       | 2              |  | 55             | 47   | -               |
| Skagen (The Scaw)                | 29.75                              | 55              | NW    | 5                 | 6c       |  | 29.83                            | -.18                              | 54          | 52   | + 5                               | NW    | 1                 | 0        | 1              |  | 55             | 48   | 0.04            |
| Fanø ...                         | 30.01                              | 54              | NW    | 6                 | o        |  | 30.03                            | -.08                              | 54          | 52   | + 6                               | NW    | 6                 | 0        | *              |  | 55             | 48   | -               |
| <b>BRITISH ISLANDS.</b>          |                                    |                 |       |                   |          |  |                                  |                                   |             |      |                                   |       |                   |          |                |  |                |      |                 |
| Sumburgh Head                    | 30.13                              | 51              | NW    | 4                 | o        |  | 30.12                            | -.02                              | 52          | 50   | + 1                               | NW    | 4                 | 0        | 4              |  | 52             | 45   | -               |
| Sornoway ...                     | 30.38                              | 54              | NW    | 3                 | o        |  | 30.38                            | -.03                              | 51          | 50   | - 3                               | W     | 4                 | 6c       | 3              |  | 56             | 49   | -               |
| Wick ...                         | 30.30                              | 53              | NW    | 5                 | o        |  | 30.30                            | + .01                             | 52          | 50   | - 2                               | NW    | 3                 | 0        | 1              |  | 55             | 49   | -               |
| Nairn ...                        | 30.36                              | 53              | W     | 1                 | e        |  | 30.35                            | -.01                              | 52          | 49   | - 1                               | E     | 1                 | 6c       | 1              |  | 59             | 48   | -               |
| Aberdeen ...                     | 30.33                              | 53              | NW    | 4                 | b        |  | 30.34                            | -.00                              | 51          | 48   | - 2                               | NW    | 3                 | 6c       | 1              |  | 61             | 50   | -               |
| Leith ...                        | 30.34                              | 53              | W     | 1                 | b        |  | 30.39                            | -.05                              | 45          | 43   | - 7                               | W     | 1                 | mw       | *              |  | 64             | 40   | -               |
| Shields ...                      | 30.25                              | 55              | W     | 1                 | cm       |  | 30.39                            | -.00                              | 52          | 49   | - 1                               | W     | 1                 | 0        | 2              |  | 60             | 46   | -               |
| Sparn Head ...                   | 30.35                              | 55              | NW    | 3                 | o        |  | 30.36                            | -.00                              | 52          | 51   | 0                                 | NW    | 3                 | cm       | 5              |  | 55             | 50   | -               |
| York ...                         | 30.40                              | 53              | NW    | 1                 | o        |  | 30.39                            | -.02                              | 47          | 46   | - 4                               | NW    | 1                 | 0        | *              |  | 57             | 45   | -               |
| Loughborough                     | 30.40                              | 53              | NW    | 1                 | o        |  | 30.40                            | -.02                              | 48          | 47   | - 3                               | 2     | 0                 | cm       | *              |  | 56             | 47   | -               |
| Ardrossan ...                    | 30.37                              | 55              | NW    | 4                 | b        |  | 30.39                            | -.03                              | 46          | 45   | - 8                               | E     | 1                 | cfw      | 0              |  | 60             | 40   | -               |
| Malin Head ...                   | 30.47                              | 54              | NW    | 3                 | o        |  | 30.43                            | -.05                              | 58          | 49   | - 2                               | NW    | 2                 | 0        | 2              |  | 55             | 52   | -               |
| Mullaghmore ...                  | 30.49                              | 55              | NW    | 3                 | o        |  | 30.45                            | -.05                              | 52          | 50   | - 2                               | SE    | 1                 | 0        | 1              |  | 57             | 51   | -               |
| Belmullet ...                    | 30.51                              | 54              | NW    | 2                 | o        |  | 30.47                            | -.06                              | 52          | 48   | - 1                               | SE    | 2                 | 0        | *              |  | 56             | 51   | -               |
| Donaghadee ...                   | 30.45                              | 55              | NW    | 4                 | o        |  | 30.42                            | -.05                              | 54          | 51   | - 1                               | NW    | 3                 | 0        | 2              |  | 58             | 52   | -               |
| <b>GERMANY.</b>                  |                                    |                 |       |                   |          |  |                                  |                                   |             |      |                                   |       |                   |          |                |  |                |      |                 |
| Barrow-in-Farney                 | 30.37                              | 56              | N     | 2                 | o        |  | 30.36                            | -.09                              | 48          | 46   | - 4                               | NE    | 1                 | 6c       | *              |  | 56             | 45   | -               |
| Liverpool (Bidston)              | 30.41                              | 54              | NW    | 1                 | o        |  | 30.39                            | -.04                              | 53          | 49   | + 1                               | S     | 1                 | 0        | 1              |  | 58             | 51   | -               |
| Holyhead ...                     | 30.43                              | 55              | NW    | 4                 | o        |  | 30.40                            | -.04                              | 54          | 50   | - 1                               | N     | 2                 | 0        | 2              |  | 57             | 54   | -               |
| Parsonstown ...                  | 30.51                              | 53              | 2     | 0                 | o        |  | 30.47                            | -.05                              | 49          | 47   | - 1                               | 2     | 0                 | 0        | *              |  | 56             | 48   | -               |
| Valencia ...                     | 30.48                              | 53              | NE    | 1                 | o        |  | 30.43                            | -.08                              | 53          | 49   | 0                                 | NW    | 1                 | om       | 1              |  | 56             | 51   | -               |
| Roche's Point ...                | 30.47                              | 54              | E     | 1                 | o        |  | 30.43                            | -.03                              | 53          | 50   | 0                                 | NE    | 1                 | 0        | 3              |  | 58             | 50   | -               |
| Pembroke ...                     | 30.43                              | 54              | NE    | 1                 | o        |  | 30.40                            | -.03                              | 53          | 52   | + 2                               | ENE   | 1                 | og       | 0              |  | 59             | 51   | -               |
| Seilly ...                       | 30.40                              | 55              | E     | 2                 | om       |  | 30.35                            | -.05                              | 55          | 52   | 0                                 | ENE   | 1                 | om       | 2              |  | 59             | 52   | -               |
| Prawle Point ...                 | 30.42                              | 52              | NE    | 2                 | o        |  | 30.38                            | -.04                              | 51          | 48   | 0                                 | N     | 2                 | 0        | 2              |  | 57             | 47   | -               |
| Jersey ...                       | 30.36                              | 55              | NE    | 3                 | o        |  | 30.33                            | -.05                              | 66          | 51   | 0                                 | NE    | 3                 | om       | 3              |  | 57             | 52   | 0.02            |
| <b>FRANCE &amp; NETHERLANDS.</b> |                                    |                 |       |                   |          |  |                                  |                                   |             |      |                                   |       |                   |          |                |  |                |      |                 |
| Hurst Castle ...                 | 30.39                              | 54              | NE    | 2                 | e        |  | 30.37                            | -.03                              | 51          | 48   | 0                                 | NE    | 2                 | cm       | 1              |  | 57             | 48   | -               |
| Dungeness ...                    | 30.32                              | 55              | NE    | 3                 | o        |  | 30.32                            | -.00                              | 53          | 50   | + 3                               | NE    | 3                 | e        | 2              |  | 57             | 49   | -               |
| London ...                       | 30.38                              | 54              | N     | 3                 | o        |  | 30.37                            | -.02                              | 58          | 47   | + 1                               | N     | 1                 | og       | *              |  | 57             | 50   | -               |
| Oxford ...                       | 30.42                              | 50              | NE    | 1                 | o        |  | 30.40                            | -.02                              | 49          | 47   | - 1                               | N     | 1                 | og       | *              |  | 55             | 47   | -               |
| Cambridge ...                    | 30.40                              | 52              | N     | 1                 | o        |  | 30.37                            | -.03                              | 52          | 48   | + 1                               | N     | 1                 | 0        | *              |  | 56             | 48   | -               |
| Yarmouth ...                     | 30.34                              | 54              | NW    | 2                 | e        |  | 30.32                            | + .01                             | 53          | 51   | 0                                 | NW    | 3                 | 0        | 4              |  | 56             | 50   | 0.01            |
| Cuxhaven ...                     | 30.26                              | 49              | NW    | 4                 | T        |  | 30.10                            | -.03                              | 54          | 53   | + 3                               | NW    | 5                 | 0        | *              |  | 55             | 49   | 0.04            |
| Berlin ...                       | 30.07                              | 51              | NW    | 3                 | o        |  | 29.99                            | -.07                              | 53          | 52   | + 3                               | NW    | 3                 | 0        | *              |  | 59             | 50   | -               |
| Wiesbaden ...                    | *                                  | *               | *     | *                 | *        |  | 30.24                            | + .03                             | 53          | 50   | + 2                               | 2     | 0                 | 0        | *              |  | 55             | 46   | -               |
| Munich ...                       | 30.26                              | 48              | 2     | 0                 | c        |  | 30.23                            | -.01                              | 47          | 46   | + 4                               | NW    | 2                 | 0        | *              |  | 54             | 43   | -               |
| <b>SPAIN.</b>                    |                                    |                 |       |                   |          |  |                                  |                                   |             |      |                                   |       |                   |          |                |  |                |      |                 |
| The Helder ...                   | 38.28                              | 55              | NW    | 3                 | o        |  | 30.23                            | -.06                              | 55          | 51   | + 2                               | NW    | 3                 | 0        | 3              |  | 55             | 47   | 0.04            |
| Brussels ...                     | *                                  | *               | *     | *                 | *        |  | 30.29                            | + .01                             | 52          | 51   | - 1                               | N     | 1                 | 0        | *              |  | 58             | 50   | 0.08            |
| Cape Gris Nez ...                | 30.33                              | 55              | NE    | 7                 | o        |  | 30.30                            | -.00                              | 54          | 52   | + 1                               | NE    | 5                 | 0        | 4              |  | 59             | 52   | -               |
| Paris ...                        | 30.31                              | 52              | N     | 3                 | o        |  | 30.28                            | -.02                              | 52          | 50   | + 1                               | NW    | 3                 | 0        | *              |  | 55             | 47   | 0.04            |
| Brest ...                        | 30.36                              | 54              | ENE   | 4                 | o        |  | 30.28                            | -.10                              | 51          | 49   | + 1                               | N     | 1                 | ?        | 2              |  | 61             | 46   | -               |
| Lorient ...                      | 30.35                              | 56              | ENE   | 5                 | o        |  | 30.28                            | -.10                              | 54          | 51   | ?                                 | ENE   | 3                 | 0        | 2              |  | 59             | 48   | -               |
| Rochefort ...                    | 30.28                              | 59              | NE    | 5                 | o        |  | 30.22                            | -.06                              | 54          | 46   | + 7                               | NE    | 5                 | e        | 2              |  | 68             | 33   | -               |
| Belfort ...                      | 30.19                              | 53              | NE    | 1                 | b        |  | 30.18                            | -.01                              | 51          | 46   | + 7                               | NE    | 3                 | e        | *              |  | 58             | 33   | -               |
| Lyons ...                        | 30.21                              | 53              | NW    | 1                 | b        |  | 30.17                            | -.13                              | 45          | 44   | + 2                               | N     | 4                 | 0        | *              |  | 59             | 47   | -               |
| Nice ...                         | 30.12                              | 54              | W     | 1                 | b        |  | 30.01                            | -.06                              | 55          | 45   | - 3                               | E     | 1                 | 0        | 1              |  | 62             | 62   | -               |
| <b>PORTUGAL.</b>                 |                                    |                 |       |                   |          |  |                                  |                                   |             |      |                                   |       |                   |          |                |  |                |      |                 |
| Perpignan ...                    | 30.07                              | 59              | ?     | 1                 | b        |  | 30.04                            | -.12                              | 37          | 50   | + 6                               | W     | 3                 | T        | *              |  | 71             | 51   | -               |
| Biarritz ...                     | 30.17                              | 61              | N     | 4                 | b        |  | 30.14                            | -.08                              | 48          | 46   | - 5                               | E     | 4                 | 0        | 2              |  | 63             | 46   | -               |
| Corunna ...                      | *                                  | *               | *     | *                 | *        |  | 30.08                            | + .03                             | 53          | 51   | 0                                 | NW    | 4                 | b        | 2              |  | 69             | 52   | -               |
| Lisbon ...                       | 30.06                              | 59              | NW    | 4                 | o        |  | 30.08                            | + .03                             | 53          | 51   | 0                                 | NW    | 4                 | b        | 2              |  | 69             | 52   | -               |

For Explanation of Columns, see p. 1.



# WEATHER CHARTS

for 8 a.m. on Tuesday, 4<sup>th</sup> OCTOBER 1887.

## BAROMETER, WIND & SEA.

(Explanation of Map)

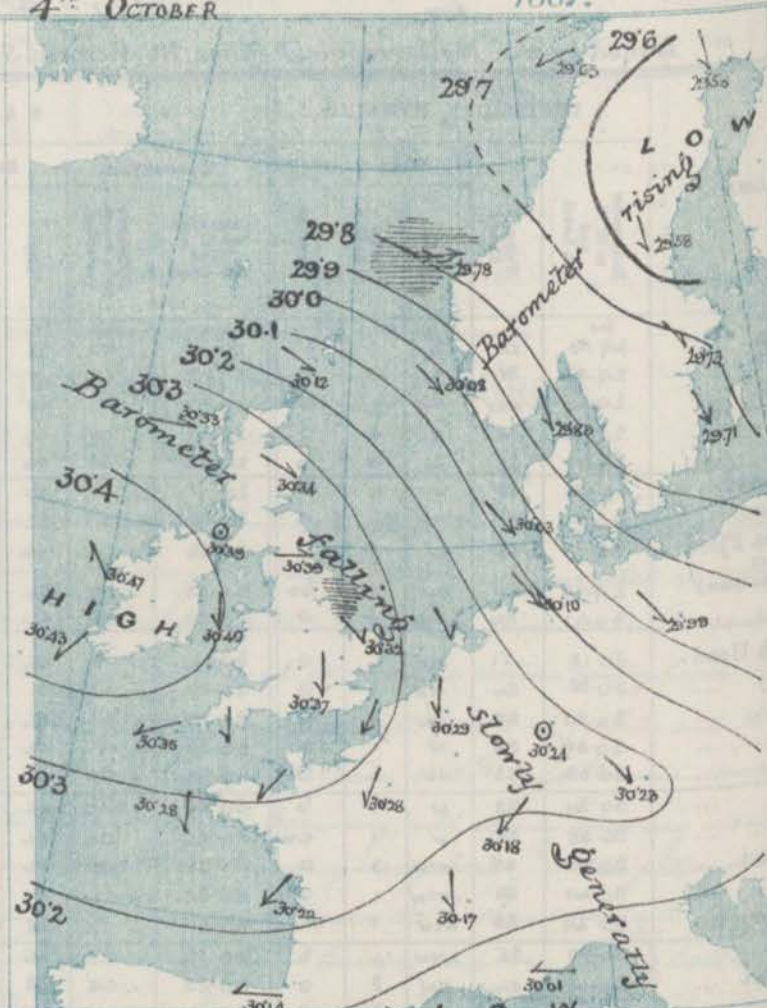
**Barometer**—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.  
**Wind**—Arrows show the prevalent winds. They fly with the wind and their bars and feathers refer to force, thus—  
 — forces above 10, — forces 8 to 10,  
 — forces 5 to 7, — forces 1 to 4,  
 ○ = dead calm.

**Sea Disturbance**—where considerable, is shown thus  
 — Rough. — High.

## MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of October  
 During the 10 Years 1871—1880.

| STATIONS.      | MEAN READINGS. |
|----------------|----------------|
| Sumburgh Head. | 29.685         |
| Stornoway.     | 29.707         |
| Wick.          | 29.716         |
| Nairn.         | 29.738         |
| Aberdeen.      | 29.748         |
| Leith.         | 29.780         |
| Shields.       | 29.821         |
| York.          | 29.860         |
| Ardrossan.     | 29.749         |
| Donaghadee.    | 29.805         |
| Holyhead.      | 29.830         |
| Liverpool.     | 29.848         |
| Valencia.      | 29.842         |
| Rocha's Point. | 29.848         |
| Pembroke.      | 29.847         |
| Scilly.        | 29.877         |
| Hurst Castle.  | 29.894         |
| Dover.         | 29.907         |
| LONDON.        | 29.902         |
| Oxford.        | 29.891         |
| Cambridge.     | 29.894         |
| Yarmouth.      | 29.889         |



## 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<br>(Inches) |
|----------------|---------------|---------------|--------------|--------------|----------------------|
|                | Daily<br>Max. | Daily<br>Min. | Avg.<br>Dry. | Avg.<br>Wet. |                      |
| Sumburgh Head. | 40.5          | 41.6          | 45.0         | 44.4         | 4.83                 |
| Stornoway.     | 50.2          | 38.8          | 45.1         | 43.9         | 4.94                 |
| Wick.          | 51.8          | 40.0          | 46.0         | 44.3         | 2.94                 |
| Nairn.         | 51.4          | 40.7          | 44.6         | 42.5         | 2.38                 |
| Aberdeen.      | 52.1          | 41.3          | 45.5         | 43.5         | 2.88                 |
| Leith.         | 55.3          | 41.9          | 46.7         | 45.1         | 1.94                 |
| Shields.       | 53.2          | 43.1          | 47.3         | 45.5         | 2.40                 |
| York.          | 55.2          | 40.9          | 46.0         | 44.7         | 2.64                 |
| Ardrossan.     | 53.7          | 43.2          | 47.7         | 45.4         | 4.31                 |
| Donaghadee.    | 53.2          | 43.2          | 47.8         | 46.8         | 3.36                 |
| Holyhead.      | 54.9          | 47.5          | 50.4         | 48.6         | 4.58                 |
| Liverpool.     | 54.0          | 44.9          | 48.0         | 46.2         | 3.62                 |
| Valencia.      | 56.7          | 46.5          | 51.3         | 49.1         | 6.09                 |
| Rocha's Point. | 55.6          | 46.4          | 50.4         | 48.6         | 4.17                 |
| Pembroke.      | 55.1          | 48.4          | 51.5         | 49.4         | 4.13                 |
| Scilly.        | 56.8          | 50.7          | 53.9         | 52.0         | 3.84                 |
| Hurst Castle.  | 57.7          | 46.8          | 51.5         | 50.5         | 3.24                 |
| Dover.         | 56.2          | 47.8          | 51.5         | 49.4         | 3.25                 |
| LONDON.        | 57.1          | 43.5          | 48.4         | 46.9         | 2.74                 |
| Oxford.        | 55.7          | 42.9          | 47.0         | 45.8         | 2.72                 |
| Cambridge.     | 57.0          | 41.6          | 48.6         | 45.7         | 2.36                 |
| Yarmouth.      | 54.9          | 45.1          | 49.5         | 48.2         | 2.97                 |

Note.—The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 10 years 1866—85.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest 30.30 to 30.47 ins. in an anticyclone which covers the British Isles, Channel and north of France.  
Lowest 29.6 ins. and less over the northeast of Sweden and Gulf of Bothnia, 30 ins. over the south of Spain.  
Gradients, slight over the British Isles, and France, moderate and irregular over the North Sea, Scandinavia and Germany.  
Barometer rising in Sweden, falling slightly over Western Europe and the British Isles generally.

## TEMPERATURE

Highest 57° at Perpignan, 55° at Nice, Lillo and the Helder, and 52° to 54° on many parts of our own coast & those of Denmark.  
Lowest 28° at Haparanda, 36° at Bodø, 43° at Hornsund, 45° at Lyons and Leith, 47° at Munich and Stockholm.  
[It rose to above 60° at the Scotch station yesterday afternoon.]

## WIND

W<sup>ly</sup> and N.W.<sup>ly</sup> on the eastern shores of the North Sea, strong generally and blowing a gale at Christiansund.  
Slight W<sup>ly</sup> and N.W.<sup>ly</sup> in Scotland — N.<sup>ly</sup> to N.E.<sup>ly</sup> over England, the Bay of Biscay, France and Spain.  
Variable airs and calms prevail over Ireland.

## WEATHER

Fine in Scotland, dull as a whole elsewhere, with showers in some few localities.  
Over our Islands it is dry. Showers fell yesterday on the eastern shores of the North Sea, in Belgium and the northeast of France.

## SEA

Rough at Christiansund, rather so off our eastern coasts, slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Pressure is now recovering in Sweden and Norway from the decrease noticed there yesterday. Over the whole of the British Isles, France and Spain however the barometer is falling very slowly.

It is probable that as the anticyclone over our Islands begins to give way it will move southwards, and that the sky will become clearer for a time at our own stations than it has been recently, and that the day temperature will increase somewhat — first at the northern and afterwards at the Irish and English stations.

## FORECASTS

For the 24 hours ending at NOON on 5<sup>th</sup> October 1887.

### DISTRICTS.

### FORECASTS.

|   |                  |  |
|---|------------------|--|
| 0 | SCOTLAND NORTH   | W <sup>ly</sup> winds, moderate to fresh; showery.                     |
| 1 | SCOTLAND EAST    | N.W. <sup>ly</sup> and W <sup>ly</sup> winds, light or moderate; fair. |
| 2 | ENGLAND N.E.     | .....D.....D.....D.....  |
| 3 | ENGLAND EAST     | Same as N <sup>o</sup> 5.  |
| 4 | MIDLAND COUNTIES | Same as N <sup>o</sup> 5.  |
| 5 | ENGLAND SOUTH    | N <sup>ly</sup> to N.W. <sup>ly</sup> breezes, light; fair, dull.      |



### DISTRICTS.

### FORECASTS.

|    |               |  |
|----|---------------|--|
| 6  | SCOTLAND WEST | Same as N <sup>o</sup> 0.                        |
| 7  | ENGLAND N.W.  | Same as N <sup>os</sup> 1 and 2.                 |
| 8  | ENGLAND S.W.  | N.E. <sup>ly</sup> breezes, light; fair.         |
| 9  | IRELAND NORTH | Variable and W <sup>ly</sup> airs; dull to fair. |
| 10 | IRELAND SOUTH | N.E. <sup>ly</sup> and variable airs; fine.      |

### WARNINGS

NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

|                   | Bar.  | Dry. | Wet. | Wind. | Wes. | Sea. |               | Bar.  | Dry. | Wet. | Wind. | Wes. | Sea. |
|-------------------|-------|------|------|-------|------|------|---------------|-------|------|------|-------|------|------|
| Skudesnaes ...    | 30.00 | 53   | 52   | NW 7  | 7    | 3    | Holyhead ...  | 30.45 | 56   | 51   | NW 2  | 0    | 2    |
| Sumburgh Head ... | 30.13 | 51   | 50   | NW 4  | 0    | 3    | Valencia ...  | 30.50 | 56   | 51   | NW 2  | 0    | 2    |
| Stornoway ...     | 30.39 | 56   | 53   | NW 3  | 0    | 3    | Scilly ...    | 30.44 | 58   | 53   | ENE 2 | 6    | 3    |
| Aberdeen ...      | 30.32 | 58   | 53   | NW 4  | 6    | 1    | Dungeness ... | 30.32 | 59   | 53   | NE 3  | 0    | 2    |
| Shields ...       | 30.37 | 59   | 51   | W 3   | 0    | 2    | London ...    | 30.37 | 57   | 50   | NW 4  | 0    | *    |
| Ardrossan ...     | 30.40 | 58   | 55   | WNW 4 | 6    | 2    | Yarmouth ...  | 30.34 | 55   | 52   | N 4   | 0    | 4    |
| Malin Head ...    | 30.49 | 55   | 55   | NW 2  | 0    | 2    | Jersey ...    | 30.38 | 57   | 52   | NE 2  | 0    | 2    |
| Mullaghmore ...   | 30.51 | 56   | 51   | NW 2  | 0    | 2    | Rocheport ... | 30.31 | 67   | 60   | NE 5  | 6    | 2    |
| Belmullet ...     | 30.54 | 56   | 51   | NW 2  | 0    | *    |               |       |      |      |       |      |      |

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

The reports for yesterday morning showed that pressure varied from between 30.3 ins. and 30.5 ins. over the British Islands, to 29.7 ins. and less over Central Russia, and to about 29.5 ins. over Lapland and the north of Norway. Towards the latter region a new depression was advancing from the Atlantic. Gradients were very slight over the United Kingdom and France, moderate over the North Sea and rather steep in Norway. The winds, which were light to moderate from between NW and NE over the whole of our Islands, the Channel, Bay of Biscay, and greater part of France, had backed to SW at Christiansund and blew a gale, while at Wisby a N. gale was reported, due to the previous disturbances, which passed over Scandinavia on Sunday. The weather was very dull, but dry, over the British Isles, showery on the eastern shores of the North Sea, but clear and bright over the Gulf of Bothnia as well as over Spain and the southern parts of France. Temperature had begun to rise over the British Isles and north of France, and varied from between 70° and 79° over the southeastern parts of the Mediterranean, and from between 45° and 55° over the British Isles to several degrees below the freezing point over Northern Europe, and to below 32°, and 40° over Russia and some parts of Central France. The highest individual values were 79° at Cagliari, 76° at Brindisi, 73° at Sfax (Algeria), 72° at Palermo and 70° at Constantinople; the lowest 26° at Archangel, 28° at Niparanda, 31° at Uleaborg, and 38° over the Baltic Provinces of Russia, while over Central Europe there were readings as low as 33° at Clermont and 43° at Lapp, Lyons and Munich, and 44° at Nancy and Belfast.

Later in the day the depression over Scandinavia moved south-eastward.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for Wednesday 5<sup>th</sup> October

1887.

Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

| 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.  |                   | Sun. (0 to 9.) | SHADE TEMP. |      | Amount of Rainfall. |      |  |
|                            |                                    |                 | Dirce. | Force. (0 to 12.) |          | Reading at 32° F. and Sea Level. | Difference from 8 a.m. yesterday. | Dry.        | Wet. | Difference from 8 a.m. yesterday. | Dirce. | Force. (0 to 12.) |                | Max.        | Min. |                     |      |  |
| Haparanda                  | 29.82                              | 31              | N      | 2                 | †        | 29.67                            | +0.9                              | 24          | 23   | +6                                | S      | 2                 | 0              | *           | 27   | 27                  | 0.04 |  |
| Hernösand                  | 29.87                              | 37              | N      | 2                 | 0        | 29.77                            | +1.9                              | 28          | 27   | -5                                | S      | 2                 | 0              | *           | 48   | 26                  | 0.12 |  |
| Stockholm                  | 29.84                              | 45              | N      | 2                 | 0        | 29.98                            | +2.5                              | 42          | 40   | -2                                | SW     | 2                 | C              | *           | 61   | 27                  | -    |  |
| Wibby                      | 29.88                              | 51              | NW     | 4                 | 6        | 29.92                            | +2.2                              | 47          | 44   | -2                                | ENE    | 2                 | 6c             | *           | 54   | 45                  | -    |  |
| Bodo                       | 29.64                              | 33              | E      | 4                 | 0        | 29.40                            | -2.3                              | 41          | 40   | +5                                | WNW    | 7                 | †              | 6           | 45   | 34                  | 1.66 |  |
| Christiansund              | 29.84                              | 50              | WNW    | 9                 | †        | 29.81                            | +0.3                              | 51          | 50   | +1                                | WNW    | 9                 | †              | 6           | 52   | 48                  | 0.40 |  |
| Skadesnes                  | 29.13                              | 53              | WNW    | 6                 | 0        | 29.14                            | +0.6                              | 52          | 49   | +1                                | WNW    | 4                 | 0              | 4           | 54   | 52                  | -    |  |
| Christiania Fjord (Verder) | 29.89                              | 59              | N      | 2                 | C        | 29.92                            | +1.3                              | 53          | 48   | -1                                | WNW    | 2                 | 6              | 2           | 61   | 52                  | -    |  |
| Skagen (The Scaw)          | 29.92                              | 54              | NNW    | 2                 | 6c       | 29.98                            | +1.5                              | 51          | 49   | -3                                | NNW    | 1                 | 6c             | 1           | 57   | 48                  | -    |  |
| Faro                       | 29.05                              | 54              | NW     | 6                 | 0        | 29.11                            | +0.8                              | 54          | 50   | 0                                 | NW     | 6                 | C              | *           | 57   | 52                  | -    |  |
| Sumburgh Head              | 29.16                              | 52              | WNW    | 4                 | 0        | 29.11                            | -0.1                              | 51          | 49   | -1                                | WNW    | 3                 | 0              | 4           | 53   | 48                  | 0.02 |  |
| Stornoway                  | 29.21                              | 53              | N      | 2                 | 6c       | 29.25                            | -0.3                              | 51          | 50   | 0                                 | SW     | 2                 | 0              | 2           | 55   | 47                  | 0.09 |  |
| Wick                       | 29.20                              | 52              | N      | 2                 | 0        | 29.24                            | -0.6                              | 50          | 49   | -2                                | N      | 2                 | C              | 0           | 55   | 43                  | -    |  |
| Nairn                      | 29.21                              | 53              | SW     | 1                 | 6c       | 29.28                            | -0.7                              | 50          | 49   | -2                                | SW     | 2                 | C              | 1           | 58   | 48                  | -    |  |
| Aberdeen                   | 29.22                              | 54              | N      | 0                 | 0        | 29.30                            | -0.4                              | 50          | 47   | -1                                | N      | 2                 | 6              | 1           | 60   | 47                  | -    |  |
| Leith                      | 29.25                              | 55              | NW     | 1                 | m        | 29.32                            | -0.6                              | 45          | 45   | 0                                 | N      | 1                 | 6              | *           | 61   | 42                  | -    |  |
| Shields                    | 29.26                              | 53              | N      | 0                 | 0        | 29.31                            | -0.3                              | 48          | 41   | -9                                | N      | 2                 | 6              | 2           | 56   | 43                  | -    |  |
| Spurn Head                 | 29.28                              | 54              | N      | 2                 | a        | 29.32                            | -0.4                              | 50          | 48   | -2                                | WNW    | 2                 | cm             | 4           | 55   | 48                  | -    |  |
| York                       | 29.37                              | 51              | NW     | 1                 | 6        | 29.35                            | -0.4                              | 40          | 40   | -7                                | N      | 1                 | f              | *           | 58   | 24                  | -    |  |
| Loughborough               | 29.29                              | 49              | ENE    | 1                 | 6        | 29.37                            | -0.2                              | 46          | 45   | -2                                | WNW    | 1                 | cm             | *           | 61   | 28                  | -    |  |
| Ardrossan                  | 29.36                              | 53              | WNW    | 2                 | 0        | 29.34                            | -0.5                              | 54          | 53   | +8                                | N      | 0                 | ofw            | 0           | 56   | 45                  | -    |  |
| Malin Head                 | 29.41                              | 53              | WNW    | 2                 | 0        | 29.36                            | -0.7                              | 52          | 48   | -1                                | WNW    | 2                 | 0              | 4           | 56   | 52                  | -    |  |
| Mullaghmore                | 29.42                              | 53              | WNW    | 1                 | 0        | 29.40                            | -0.5                              | 50          | 47   | -2                                | SW     | 2                 | 0              | 4           | 55   | 49                  | -    |  |
| Belmullet                  | 29.44                              | 54              | SW     | 2                 | 0        | 29.43                            | -0.4                              | 50          | 47   | -2                                | SW     | 1                 | 0              | *           | 55   | 50                  | -    |  |
| Donaghadee                 | 29.41                              | 54              | NNE    | 2                 | 0        | 29.39                            | -0.2                              | 51          | 48   | -3                                | WNW    | 2                 | 0              | 2           | 57   | 50                  | -    |  |
| Barrow-in-Furness          | 29.44                              | 55              | NW     | 2                 | 6c       | 29.44                            | -0.2                              | 51          | 48   | +3                                | NNE    | 1                 | of             | *           | 59   | 48                  | -    |  |
| Liverpool (Bidston)        | 29.38                              | 53              | NW     | 1                 | 6        | 29.37                            | -0.2                              | 52          | 49   | -1                                | WNW    | 1                 | 0              | 2           | 58   | 50                  | -    |  |
| Holyhead                   | 29.39                              | 54              | N      | 1                 | C        | 29.37                            | -0.3                              | 53          | 48   | -1                                | WNW    | 1                 | 0              | 1           | 57   | 52                  | -    |  |
| Parsonstown                | 29.44                              | 52              | N      | 0                 | 0        | 29.42                            | -0.5                              | 49          | 47   | 0                                 | N      | 0                 | 0              | *           | 58   | 47                  | -    |  |
| Valencia                   | 29.41                              | 55              | NW     | 1                 | 0        | 29.39                            | -0.4                              | 52          | 49   | 0                                 | NE     | 1                 | 0              | 4           | 59   | 50                  | -    |  |
| Roche's Point              | 29.41                              | 54              | ENE    | 1                 | 0        | 29.36                            | -0.7                              | 52          | 49   | -1                                | ENE    | 2                 | 0              | 3           | 57   | 50                  | -    |  |
| Pembroke                   | 29.38                              | 54              | NE     | 2                 | C        | 29.36                            | -0.4                              | 50          | 50   | -2                                | NE     | 2                 | 0g             | 1           | 56   | 47                  | -    |  |
| Scilly                     | 29.39                              | 55              | NE     | 3                 | 0        | 29.31                            | -0.4                              | 54          | 50   | -1                                | ENE    | 4                 | cm             | 2           | 56   | 52                  | -    |  |
| Prawle Point               | 29.30                              | 54              | ENE    | 3                 | 0        | 29.28                            | -0.5                              | 52          | 48   | +1                                | NE     | 4                 | 0              | 2           | 56   | 48                  | -    |  |
| Jersey                     | 29.30                              | 57              | NE     | 2                 | 0        | 29.28                            | -0.5                              | 55          | 53   | -1                                | NE     | 4                 | cm             | 2           | 58   | 52                  | -    |  |
| Hurst Castle               | 29.34                              | 54              | NNE    | 2                 | m        | 29.33                            | -0.4                              | 51          | 49   | 0                                 | NNE    | 2                 | cm             | 1           | 57   | 49                  | -    |  |
| Dungeness                  | 29.30                              | 55              | NE     | 4                 | C        | 29.26                            | -0.6                              | 54          | 52   | +1                                | NE     | 2                 | 0              | 3           | 57   | 52                  | -    |  |
| London                     | 29.35                              | 54              | NNE    | 1                 | 0        | 29.34                            | -0.3                              | 52          | 47   | -1                                | NNE    | 2                 | 0g             | *           | 58   | 51                  | -    |  |
| Oxford                     | 29.40                              | 51              | NE     | 1                 | 0        | 29.37                            | -0.3                              | 49          | 45   | -2                                | NE     | 1                 | m              | *           | 56   | 43                  | -    |  |
| Cambridge                  | 29.37                              | 53              | N      | 1                 | 0        | 29.34                            | -0.3                              | 50          | 47   | -2                                | N      | 1                 | 0              | *           | 58   | 47                  | -    |  |
| Yarmouth                   | 29.32                              | 52              | N      | 2                 | 0        | 29.30                            | -0.2                              | 52          | 50   | 0                                 | NNE    | 2                 | C              | 4           | 55   | 51                  | -    |  |
| Cuxhaven                   | 29.13                              | 49              | WNW    | 5                 | 0        | 29.16                            | +0.6                              | 50          | !    | -4                                | WNW    | 5                 | 0              | *           | 54   | 49                  | -    |  |
| Berlin                     | 29.06                              | 55              | WNW    | 3                 | †        | 29.10                            | +1.1                              | 52          | 49   | -1                                | WNW    | 2                 | 0              | *           | 57   | 50                  | -    |  |
| Wiesbaden                  | *                                  | *               | *      | *                 | *        | 29.21                            | -0.3                              | 52          | 48   | -1                                | N      | 0                 | 0              | *           | 57   | 50                  | -    |  |
| Munich                     | 29.21                              | 45              | NE     | 2                 | 6        | 29.13                            | -0.10                             | 42          | 42   | -5                                | E      | 2                 | f              | *           | 54   | 34                  | -    |  |
| The Helder                 | 29.28                              | 55              | N      | 3                 | 0        | 29.26                            | +0.3                              | 53          | 51   | -2                                | N      | 2                 | 0              | 2           | 55   | 52                  | -    |  |
| Brussels                   | *                                  | *               | *      | *                 | *        | 29.25                            | -0.4                              | 51          | 49   | -1                                | NNE    | 1                 | 0              | *           | 57   | 51                  | 0.04 |  |
| Cape Gris Nez              | 29.33                              | 57              | NNE    | 7                 | 0        | 29.26                            | -0.4                              | 54          | 53   | 0                                 | ENE    | 7                 | C              | 5           | 57   | ?                   | -    |  |
| Paris                      | 29.23                              | 43              | NNE    | 3                 | 0        | 29.21                            | -0.7                              | 51          | 49   | -1                                | NE     | 4                 | 0              | *           | 58   | 50                  | -    |  |
| Brest                      | 29.25                              | 55              | N      | 4                 | 0        | 29.27                            | -0.1                              | 54          | 50   | +3                                | ENE    | 4                 | 0              | 2           | 62   | 45                  | -    |  |
| Lorient                    | 29.26                              | 55              | NNE    | 5                 | 0        | 29.22                            | -0.6                              | 55          | 51   | +1                                | NE     | 4                 | 0              | 2           | 61   | 52                  | -    |  |
| Rocheport                  | 29.18                              | 57              | NE     | 4                 | 0        | 29.15                            | -0.7                              | 54          | 53   | 0                                 | NNE    | 5                 | 0              | 2           | 64   | 50                  | -    |  |
| Belfort                    | 29.11                              | 52              | NE     | 1                 | 6        | 29.06                            | -1.2                              | 52          | 49   | +2                                | SE     | 2                 | 0              | *           | 57   | 46                  | -    |  |
| Lyons                      | 29.08                              | 54              | NNW    | 3                 | 0        | 29.04                            | -1.3                              | 48          | 46   | +3                                | N      | 2                 | m              | *           | 59   | 47                  | -    |  |
| Nice                       | 29.93                              | 62              | N      | 0                 | 0        | 29.92                            | -0.9                              | 49          | 47   | -2                                | ENE    | 7                 | †              | 3           | 64   | 45                  | 0.55 |  |
| Perpignan                  | 29.22                              | 58              | NW     | 2                 | 0        | 29.00                            | -0.4                              | 58          | 50   | +1                                | NW     | 2                 | 0              | *           | 61   | 53                  | 0.04 |  |
| Barritz                    | 29.12                              | 58              | N      | 4                 | 0        | 29.10                            | -0.4                              | 55          | 49   | +7                                | S      | 3                 | 0              | 0           | 61   | 50                  | -    |  |
| Corunna                    | *                                  | *               | *      | *                 | *        | *                                | *                                 | *           | *    | *                                 | *      | *                 | *              | *           | *    | *                   | *    |  |
| Lisbon                     | 29.08                              | 53              | NW     | 5                 | 6        | 29.06                            | -0.2                              | 56          | 51   | +3                                | NNE    | 5                 | 6c             | 2           | ?    | ?                   | -    |  |

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on

WEDNESDAY 5<sup>TH</sup> OCTOBER

1887.

## BAROMETER, WIND & 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.

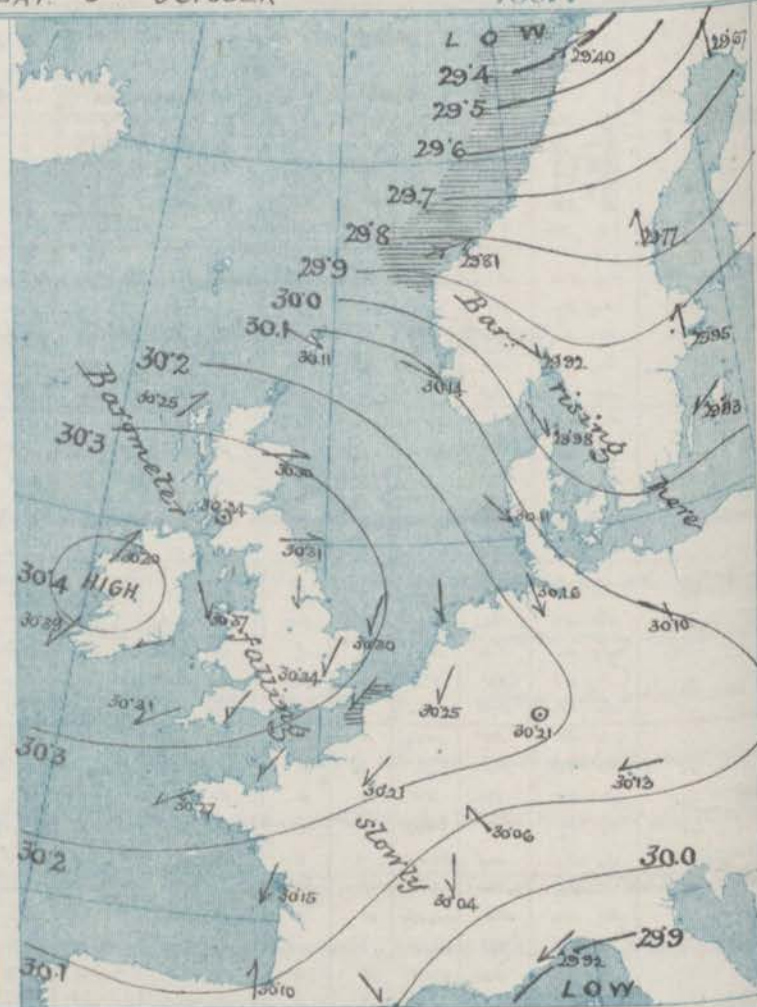
**Sea Disturbance** — where considerable is shown thus

■ = Rough. ■ = High

## MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of October.  
During the 10 Years 1871—1880.

| STATIONS.     | MEAN READINGS.<br>ins. |
|---------------|------------------------|
| Sumburgh Head | 29.685                 |
| Stornoway     | 29.707                 |
| Wick          | 29.718                 |
| Nairn         | 29.738                 |
| Aberdeen      | 29.748                 |
| Leith         | 29.780                 |
| Shields       | 29.821                 |
| York          | 29.860                 |
| Ardrossan     | 29.749                 |
| Donaghadee    | 29.805                 |
| Holyhead      | 29.830                 |
| Liverpool     | 29.848                 |
| Valencia      | 29.842                 |
| Rocha's Point | 29.843                 |
| Pembroke      | 29.847                 |
| Scilly        | 29.877                 |
| Hurst Castle  | 29.894                 |
| Dover         | 29.907                 |
| LONDON        | 29.902                 |
| Oxford        | 29.891                 |
| Cambridge     | 29.894                 |
| Yarmouth      | 29.889                 |



## 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.<br>(Inches) |
|---------------|---------------|---------------|-----------|-----------|-----------------------|
|               | Daily<br>Max. | Daily<br>Min. | At 8 a.m. | At 8 p.m. |                       |
| Sumburgh Head | 49.5          | 41.6          | 45.9      | 44.4      | 4.33                  |
| Stornoway     | 50.2          | 38.8          | 45.1      | 43.9      | 4.94                  |
| Wick          | 51.8          | 40.0          | 46.0      | 44.3      | 2.94                  |
| Nairn         | 51.4          | 40.7          | 44.6      | 42.5      | 2.38                  |
| Aberdeen      | 52.1          | 41.8          | 45.5      | 43.5      | 2.88                  |
| Leith         | 55.3          | 41.0          | 46.7      | 45.1      | 1.94                  |
| Shields       | 53.2          | 43.1          | 47.3      | 45.5      | 2.46                  |
| York          | 55.2          | 40.9          | 46.0      | 44.7      | 2.64                  |
| Ardrossan     | 53.7          | 43.2          | 47.7      | 45.4      | 4.81                  |
| Donaghadee    | 53.2          | 43.2          | 47.8      | 46.8      | 3.35                  |
| Holyhead      | 54.9          | 47.5          | 50.4      | 48.6      | 4.53                  |
| Liverpool     | 54.0          | 44.9          | 48.0      | 46.2      | 3.62                  |
| Valencia      | 56.7          | 46.5          | 51.3      | 49.1      | 6.09                  |
| Rocha's Point | 55.0          | 46.4          | 50.4      | 48.6      | 4.17                  |
| Pembroke      | 55.1          | 48.4          | 51.5      | 49.4      | 4.13                  |
| Scilly        | 56.8          | 50.7          | 53.9      | 52.0      | 3.84                  |
| Hurst Castle  | 57.7          | 46.8          | 51.5      | 50.5      | 3.24                  |
| Dover         | 56.2          | 47.8          | 51.5      | 49.4      | 3.28                  |
| LONDON        | 57.1          | 43.5          | 48.4      | 46.9      | 2.74                  |
| Oxford        | 55.7          | 42.9          | 47.0      | 45.8      | 2.72                  |
| Cambridge     | 57.0          | 41.6          | 46.6      | 45.7      | 2.36                  |
| Yarmouth      | 54.9          | 45.1          | 49.5      | 45.2      | 2.97                  |

NOTE — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 10 years 1866—85.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.42 ins. at Parsonstown, and 30.3 ins. and more over the whole of Ireland, England & the southern half of Scotland.  
Lowest, 29.4 ins. at Bodo, 29.8 ins. at Christiansund and Harnöand, 29.9 ins. over the Gulf of Genoa.  
Gradient, slight except over the north of Scandinavia; Barometer falling except over the Baltic, most in the north of Norway.

## TEMPERATURE

Highest, 58° at Bayrignan, 56° at Lisbon, 54° at Scilly, 53° at Skudesnaes and Belfort, 52° at Berlin and Wiesbaden.  
Lowest, 34° at Haparanda, 40° at York, 41° at Bodo, 42° at Munich.  
It had risen in Norway and the north of Sweden since yesterday, but not changed materially in our Islands.

## WIND

Strong to a gale from S.W. in the northwest of Norway — light from S.W. on our northwest coasts.  
Light W. in Scotland, strong N.W. in Denmark; light to moderate, N.E. at the southern and southwestern stations.  
A moderate gale from N.E. is reported over the Gulf of Genoa.

## WEATHER

Rainy in Norway and the Gulf of Genoa. Fine on our northeast coasts and in the Skager Rack.  
Very cloudy and dull elsewhere, but dry generally.  
Much rain has fallen in the north of Scandinavia, and a little at Stornoway and Lumburg Head.

## SEA

Rough in the far north, rather so at Ardrossan, moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone appears to be giving way very slowly, but more in the north, than elsewhere, so that the S.W. and W. winds over our northern regions will probably freshen and bring some rain to Scotland and the north of Ireland.

## FORECASTS

for the 24 hours ending at NOON on 6<sup>th</sup> October 1887.

### DISTRICTS.

### FORECASTS.

|   |                  |   |
|---|------------------|---|
| 0 | SCOTLAND NORTH   | S.W. and W. winds, moderate to fresh; some showers. |
| 1 | SCOTLAND EAST    | N.W. and W. breezes, light; fair, milder.           |
| 2 | ENGLAND N.E.     | .....D.....D.....D.....                             |
| 3 | ENGLAND EAST     | Same as N° 5.                                       |
| 4 | MIDLAND COUNTIES | Same as N° 1 and 2.                                 |
| 5 | ENGLAND SOUTH    | N.E. and N. winds, moderate; fair as a whole.       |

### DISTRICTS.

### FORECASTS.

|    |               |                                  |
|----|---------------|----------------------------------|
| 6  | SCOTLAND WEST | Same as N° 0.                    |
| 7  | ENGLAND N.W.  | N.W. to W. breezes, light; fair. |
| 8  | ENGLAND S.W.  | Same as N° 5.                    |
| 9  | IRELAND NORTH | Same as N° 0.                    |
| 10 | IRELAND SOUTH | N.E. airs; fair generally.       |

### WARNINGS

NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

|                   | Bar.  | Dry. | Wet. | Wind. | Wes. | Sea. |               | Bar.  | Dry. | Wet. | Wind. | Wes. | Sea. |
|-------------------|-------|------|------|-------|------|------|---------------|-------|------|------|-------|------|------|
| Skudesnaes ...    | 30.12 | 57   | 57   | NW 6  | 0    | 4    | Holyhead ...  | 30.40 | 55   | 52   | N 2   | 60   | 2    |
| Sumburgh Head ... | 30.15 | 58   | 57   | WNW 4 | 0    | 4    | Valencia ...  | 30.42 | 59   | 52   | N 2   | 0m   | 1    |
| Stornoway ...     | 30.32 | 53   | 52   | W 3   | bcp  | 3    | Scilly ...    | 30.35 | 56   | 50   | ENE 1 | 0m   | 3    |
| Aberdeen ...      | 30.34 | 58   | 52   | SSW 3 | c    | 1    | Dungeness ... | 30.29 | 56   | 54   | NE 5  | c    | 4    |
| Shields ...       | 30.36 | 56   | 52   | NE 1  | c    | 2    | London ...    | 30.35 | 58   | 52   | NNE 1 | 0g   | *    |
| Ardrossan ...     | 30.28 | 56   | 51   | WNW 3 | 0    | 2    | Yarmouth ...  | 30.33 | 55   | 52   | WNW 2 | c    | 4    |
| Malin Head ...    | 30.43 | 55   | 50   | WNW 1 | 0    | 1    | Jersey ...    | 30.22 | 58   | 52   | ENE 3 | 0    | 3    |
| Mullaghmore ...   | 30.44 | 55   | 50   | W 2   | 6    | 1    | Rochefort ... | 30.20 | 62   | 57   | NE 5  | 0    | 2    |
| Belmullet ...     | 30.45 | 55   | 50   | SSW 2 | 0    | *    |               |       |      |      |       |      |      |

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

Yesterday morning's reports showed that pressure then ranged from between 30.3 ins. and 30.5 ins. over the British Isles and north of France to rather below 29.5 ins. over Central Russia and to a little below 29.9 ins. over Eastern Algeria—so that while NW winds were being experienced over the whole of Northern and Central Europe, with the Baltic, NE breezes were prevalent in the south, but were of comparatively little force. The former current was accompanied by showers of rain over many parts of the Continent, while the latter brought with it dry weather, except at some of the Mediterranean stations where rain fell. Temperature ranged from 75° and upwards over the southern parts of the Mediterranean to rather below the freezing point over Northern Europe. The local area of cold over central France and Germany however, was less intense than of late. The highest individual values were 79° at Malta, 78° at Biskra (Algeria) 73° at Brindisi, 68° at Palermo, and 64° at Langunaire; the lowest 27° at Archangel, 28° at Naparanda, 29° at Uleaborg, and Helsingfors, and 31° at Krasno.

No important change occurred later beyond a recovery of pressure over the Baltic and Northern Europe.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for Thursday 6<sup>th</sup> October

1887.

Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

| STATIONS.                  |       | + YESTERDAY EVENING.               |                 |       |                   |          | 8 A.M. TO DAY.                   |                                   |             |      |                                   |       |                   |                |             |      | PAST 24 HOURS.      |      |  |
|----------------------------|-------|------------------------------------|-----------------|-------|-------------------|----------|----------------------------------|-----------------------------------|-------------|------|-----------------------------------|-------|-------------------|----------------|-------------|------|---------------------|------|--|
|                            |       | Barometer at 32° F. and Sea Level. | Temp. in Shade. | WIND. |                   | Weather. | BAROMETER.                       |                                   | SHADE TEMP. |      |                                   | WIND. |                   | Sea. (° to 9.) | SHADE TEMP. |      | Amount of Rainfall. |      |  |
|                            |       |                                    |                 | Dir.  | Force. (0 to 12.) |          | Reading at 32° F. and Sea Level. | Difference from 8 a.m. yesterday. | Dry.        | Wet. | Difference from 8 a.m. yesterday. | Dir.  | Force. (0 to 12.) |                | Weather.    | Max. |                     | Min. |  |
| SCANDINAVIA.               |       |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |                |             |      |                     |      |  |
| Haparanda                  | 29.30 | 36                                 | N               | 2     | b                 | 29.11    | - .56                            | 39                                | 86          | + 5  | W                                 | 2     | c                 | *              | 39          | 28   | -                   |      |  |
| Hernösand                  | 29.50 | 48                                 | SW              | 2     | b                 | 29.25    | - .52                            | 41                                | 86          | + 3  | W                                 | 6     | b                 | *              | 52          | 34   | -                   |      |  |
| Stockholm                  | 29.79 | 48                                 | SW              | 2     | c                 | 29.60    | - .38                            | 46                                | 44          | + 3  | NW                                | 2     | b                 | *              | 59          | 41   | -                   |      |  |
| Wisby                      | 29.89 | 47                                 | S               | 4     | b                 | 29.62    | - .31                            | 50                                | 48          | + 3  | W                                 | 4     | bc                | *              | 52          | 41   | -                   |      |  |
| Bodo                       | 29.19 | 40                                 | WSW             | 9     | f                 | 28.88    | - .52                            | 41                                | 41          | 0    | WSW                               | 8     | f                 | 6              | 41          | 34   | 0.08                |      |  |
| Christiansund              | 29.73 | 41                                 | WSW             | 8     | r                 | 29.69    | - .12                            | 40                                | 37          | - 11 | WSW                               | 9     | s                 | 7              | 3           | 36   | 0.83                |      |  |
| Skudesnaes                 | 30.02 | 53                                 | WNW             | 4     | o                 | 29.86    | - .28                            | 49                                | 48          | - 4  | WNW                               | 6     | o                 | 4              | 54          | ?    | -                   |      |  |
| Christiania Fjord (Varder) | 29.83 | 54                                 | WSW             | 2     | b                 | 29.65    | - .27                            | 55                                | 52          | + 2  | WSW                               | 2     | bc                | 4              | 55          | ?    | -                   |      |  |
| Skagen (The Scaw)          | 29.85 | 52                                 | W               | 3     | b                 | 29.73    | - .25                            | 54                                | 52          | + 3  | W                                 | 5     | b                 | 3              | 57          | 50   | -                   |      |  |
| Fanø                       | 30.07 | 51                                 | NW              | 4     | c                 | 29.97    | - .14                            | 54                                | 52          | 0    | NW                                | 4     | c                 | *              | 55          | 48   | -                   |      |  |
| BRITISH ISLANDS.           |       |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |                |             |      |                     |      |  |
| Sumburgh Head              | 30.01 | 53                                 | WNW             | 5     | o                 | 30.01    | - .10                            | 42                                | 40          | - 9  | Z                                 | 0     | o                 | 2              | 55          | 40   | 0.11                |      |  |
| Stornoway                  | 30.17 | 54                                 | W               | 4     | o                 | 30.07    | - .18                            | 54                                | 53          | + 3  | SW                                | 4     | om                | 4              | 56          | 49   | -                   |      |  |
| Wick                       | 30.15 | 53                                 | W               | 3     | o                 | 30.03    | - .21                            | 54                                | 52          | + 4  | W                                 | 3     | o                 | 0              | 55          | 49   | -                   |      |  |
| Nairn                      | 30.20 | 53                                 | W               | 2     | bc                | 30.07    | - .21                            | 53                                | 50          | + 3  | W                                 | 3     | b                 | 1              | 56          | 48   | -                   |      |  |
| Aberdeen                   | 30.21 | 54                                 | Z               | 0     | o                 | 30.09    | - .21                            | 50                                | 47          | 0    | W                                 | 2     | c                 | 0              | 60          | 46   | -                   |      |  |
| Leith                      | 30.24 | 54                                 | WSW             | 1     | c                 | 30.15    | - .18                            | 51                                | 49          | + 6  | W                                 | 1     | om                | *              | 64          | 45   | -                   |      |  |
| Shields                    | 30.25 | 52                                 | Z               | 0     | o                 | 30.15    | - .16                            | 51                                | 48          | + 8  | W                                 | 1     | o                 | 2              | 54          | 41   | -                   |      |  |
| Sparn Head                 | 30.25 | 52                                 | NW              | 2     | c                 | 30.14    | - .18                            | 51                                | 50          | + 1  | NW                                | 3     | cgm               | 3              | 54          | 49   | -                   |      |  |
| York                       | 30.28 | 50                                 | N               | 1     | o                 | 30.17    | - .18                            | 49                                | 47          | + 9  | WNW                               | 1     | o                 | *              | 53          | 39   | -                   |      |  |
| Loughborough               | 30.28 | 51                                 | WNW             | 1     | o                 | 30.19    | - .18                            | 48                                | 46          | + 2  | WNW                               | 1     | omw               | *              | 56          | 46   | -                   |      |  |
| GERMANY.                   |       |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |                |             |      |                     |      |  |
| Arrossau                   | 30.27 | 54                                 | WNW             | 3     | o                 | 30.17    | - .17                            | 54                                | 52          | 0    | NW                                | 3     | o                 | 2              | 54          | 49   | 0.02                |      |  |
| Malin Head                 | 30.31 | 52                                 | WSW             | 3     | o                 | 30.21    | - .15                            | 51                                | 49          | - 1  | WSW                               | 3     | o                 | 2              | 53          | 50   | -                   |      |  |
| Mullaghmore                | 30.33 | 52                                 | E               | 1     | om                | 30.23    | - .17                            | 50                                | 47          | 0    | Z                                 | 0     | om                | 1              | 53          | 48   | -                   |      |  |
| Belmullet                  | 30.33 | 54                                 | SSW             | 2     | o                 | 30.23    | - .20                            | 51                                | 50          | + 1  | SSW                               | 2     | o                 | *              | 55          | 50   | -                   |      |  |
| Donaghadee                 | 30.32 | 52                                 | W               | 2     | o                 | 30.22    | - .17                            | 50                                | 48          | - 1  | W                                 | 2     | o                 | 1              | 55          | 49   | -                   |      |  |
| FRANCE & NETHERLANDS.      |       |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |                |             |      |                     |      |  |
| Barrow-in-Furness          | 30.27 | 53                                 | NNE             | 2     | o                 | 30.19    | - .15                            | 51                                | 49          | 0    | NNE                               | 1     | om                | *              | 55          | 50   | -                   |      |  |
| Liverpool (Bidston)        | 30.29 | 52                                 | WNW             | 1     | o                 | 30.20    | - .17                            | 51                                | 47          | - 1  | NE                                | 1     | o                 | 1              | 54          | 50   | -                   |      |  |
| Holyhead                   | 30.31 | 53                                 | WNW             | 3     | o                 | 30.20    | - .17                            | 53                                | 50          | 0    | WNW                               | 2     | o                 | 2              | 54          | 51   | -                   |      |  |
| Parsonstown                | 30.36 | 51                                 | Z               | 0     | o                 | 30.27    | - .15                            | 47                                | 45          | - 2  | Z                                 | 0     | o                 | *              | 53          | 46   | -                   |      |  |
| Valencia                   | 30.33 | 54                                 | WNW             | 1     | om                | 30.23    | - .14                            | 51                                | 48          | - 2  | NE                                | 1     | o                 | 1              | 57          | 50   | -                   |      |  |
| Roche's Point              | 30.33 | 54                                 | EHE             | 1     | o                 | 30.24    | - .12                            | 51                                | 48          | - 1  | NNE                               | 2     | o                 | 3              | 56          | 49   | -                   |      |  |
| Pembroke                   | 30.30 | 53                                 | EHE             | 1     | m                 | 30.23    | - .13                            | 51                                | 50          | + 1  | EHE                               | 1     | og                | 0              | 55          | 50   | -                   |      |  |
| Seilly                     | 30.25 | 54                                 | EHE             | 2     | o                 | 30.18    | - .13                            | 53                                | 49          | - 1  | NE                                | 2     | om                | 3              | 57          | 51   | -                   |      |  |
| Prawle Point               | 30.27 | 52                                 | NE              | 4     | o                 | 30.20    | - .13                            | 49                                | 46          | - 3  | NNE                               | 2     | o                 | 2              | 55          | 47   | -                   |      |  |
| Jersey                     | 30.21 | 54                                 | NE              | 3     | cmap              | 30.14    | - .14                            | 54                                | 52          | - 1  | NE                                | 3     | opm               | 3              | 57          | 51   | 0.11                |      |  |
| SPAIN.                     |       |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |                |             |      |                     |      |  |
| Hurst Castle               | 30.26 | 53                                 | NNE             | 4     | c                 | 30.18    | - .15                            | 50                                | 49          | - 1  | NNE                               | 3     | om                | 1              | 55          | 48   | -                   |      |  |
| Dungeness                  | 30.19 | 55                                 | NE              | 4     | o                 | 30.11    | - .15                            | 51                                | 49          | - 3  | NE                                | 4     | e                 | 3              | 57          | 49   | 0.02                |      |  |
| London                     | 30.25 | 53                                 | NNE             | 2     | o                 | 30.18    | - .16                            | 50                                | 47          | - 2  | NE                                | 4     | ogm               | *              | 55          | 49   | -                   |      |  |
| Oxford                     | 30.28 | 51                                 | NE              | 1     | o                 | 30.19    | - .18                            | 49                                | 46          | + 2  | N                                 | 1     | og                | *              | 54          | 47   | -                   |      |  |
| Cambridge                  | 30.26 | 52                                 | N               | 1     | o                 | 30.18    | - .16                            | 49                                | 47          | - 1  | N                                 | 1     | o                 | *              | 56          | 46   | -                   |      |  |
| Yarmouth                   | 30.24 | 53                                 | NNE             | 2     | c                 | 30.14    | - .16                            | 50                                | 48          | - 3  | NW                                | 2     | om                | 4              | 55          | 49   | -                   |      |  |
| Cuxhaven                   | 30.12 | 50                                 | N               | 4     | o                 | 30.05    | - .11                            | 52                                | 51          | + 2  | WNW                               | 1     | c                 | *              | 54          | 50   | -                   |      |  |
| Berlin                     | 30.12 | 55                                 | Z               | 0     | o                 | 29.99    | - .11                            | 53                                | 50          | + 1  | NW                                | 1     | o                 | *              | 57          | 52   | -                   |      |  |
| Wiesbaden                  | *     | *                                  | *               | *     | *                 | 30.04    | - .17                            | 52                                | 48          | 0    | NE                                | 1     | o                 | *              | 54          | 50   | -                   |      |  |
| Munich                     | 30.03 | 49                                 | NE              | 3     | b                 | 30.00    | - .13                            | 45                                | 45          | + 3  | NW                                | 2     | r                 | *              | 57          | ?    | 0.16                |      |  |
| PORTUGAL.                  |       |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |                |             |      |                     |      |  |
| The Helder                 | 30.19 | 54                                 | N               | 3     | c                 | 30.10    | - .16                            | 54                                | 50          | + 1  | N                                 | 1     | c                 | 1              | 55          | 52   | -                   |      |  |
| Brussels                   | *     | *                                  | *               | *     | *                 | 30.11    | - .14                            | 50                                | 49          | - 1  | NE                                | 1     | o                 | *              | 55          | ?    | 0.04                |      |  |
| Cape Gris Nez              | 30.20 | 52                                 | NE              | 7     | r                 | 30.13    | - .13                            | 50                                | 50          | - 4  | S                                 | 1     | o                 | 4              | 59          | 50   | 0.08                |      |  |
| Paris                      | 30.16 | 57                                 | NNE             | 3     | o                 | 30.08    | - .13                            | 50                                | 48          | - 1  | NNE                               | 3     | o                 | *              | 53          | 48   | -                   |      |  |
| Brest                      | 30.23 | 54                                 | E               | 4     | m                 | 30.15    | - .12                            | 53                                | 52          | - 1  | N                                 | 4     | o                 | 2              | 63          | 50   | -                   |      |  |
| Lorient                    | 30.18 | 55                                 | E               | 5     | o                 | 30.12    | - .10                            | 52                                | 50          | - 3  | NNE                               | 4     | o                 | 2              | 57          | 48   | -                   |      |  |
| Rochefort                  | 30.14 | 54                                 | NNE             | 5     | o                 | 30.07    | - .08                            | 51                                | 50          | - 3  | NE                                | 5     | o                 | 2              | 57          | 48   | -                   |      |  |
| Belfort                    | 30.04 | 51                                 | NE              | 4     | o                 | 30.01    | - .05                            | 47                                | 45          | - 6  | SE                                | 1     | o                 | *              | 57          | 46   | -                   |      |  |
| Lyons                      | 30.04 | 53                                 | WNW             | 1     | o                 | 30.01    | - .03                            | 49                                | 48          | + 1  | N                                 | 1     | m                 | *              | 57          | 48   | -                   |      |  |
| Nice                       | 29.95 | 58                                 | SW              | 1     | o                 | 29.93    | + .01                            | 54                                | 52          | + 7  | E                                 | 1     | bc                | 2              | 63          | ?    | 0.08                |      |  |
| Perpignan                  | 30.02 | 61                                 | NW              | 1     | o                 | 30.01    | + .01                            | 54                                | 52          | - 4  | Z                                 | 0     | o                 | *              | 72          | 51   | -                   |      |  |
| Biarritz                   | 30.06 | 59                                 | NW              | 4     | o                 | 29.98    | - .12                            | 54                                | 49          | - 1  | SSW                               | 4     | o                 | 2              | 63          | 50   | -                   |      |  |
| Corunna                    | *     | *                                  | *               | *     | *                 | 29.97    | - .11                            | 56                                | 50          | 0    | NNE                               | 4     | b                 | 2              | 72          | 55   | -                   |      |  |
| Lisbon                     | *     | *                                  | *               | *     | *                 | 29.97    | - .11                            | 56                                | 50          | 0    | NNE                               | 4     | b                 | 2              | 72          | 55   | -                   |      |  |

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on

Thursday, 6<sup>th</sup> OCTOBER.

## BAROMETER, WIND & 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 10 Years 1871—1880.

| STATIONS.     | MEAN READINGS. |
|---------------|----------------|
|               | in.            |
| Sumburgh Head | 29.685         |
| Stornoway     | 29.707         |
| Wick          | 29.718         |
| Nairn         | 29.738         |
| Aberdeen      | 29.748         |
| Leith         | 29.780         |
| Shields       | 29.821         |
| York          | 29.860         |
| Ardrossan     | 29.749         |
| Donaghadee    | 29.805         |
| Holyhead      | 29.830         |
| Liverpool     | 29.848         |
| Valencia      | 29.842         |
| Roche's Point | 29.848         |
| Pembroke      | 29.847         |
| Scilly        | 29.877         |
| Hurst Castle  | 29.894         |
| Dover         | 29.907         |
| LONDON        | 29.902         |
| Oxford        | 29.891         |
| Cambridge     | 29.894         |
| Yarmouth      | 29.889         |



## 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<br>(Inches) |
|---------------|--------------|---------------|-----------|------|----------------------|
|               | Daily<br>Max | Daily<br>Min. | At 8 a.m. |      |                      |
|               |              |               | Dry.      | Wet. |                      |
| Sumburgh Head | 49.5         | 41.6          | 45.9      | 44.4 | 4.33                 |
| Stornoway     | 50.2         | 38.8          | 45.1      | 43.9 | 4.94                 |
| Wick          | 51.8         | 40.0          | 46.0      | 44.3 | 2.94                 |
| Nairn         | 51.4         | 40.7          | 44.6      | 42.5 | 2.38                 |
| Aberdeen      | 52.1         | 41.3          | 45.5      | 43.6 | 2.88                 |
| Leith         | 55.3         | 41.9          | 46.7      | 45.1 | 1.94                 |
| Shields       | 53.2         | 43.1          | 47.3      | 45.5 | 2.46                 |
| York          | 55.2         | 40.9          | 46.0      | 44.7 | 2.64                 |
| Ardrossan     | 53.7         | 43.2          | 47.7      | 45.4 | 4.31                 |
| Donaghadee    | 53.2         | 43.2          | 47.8      | 46.8 | 3.35                 |
| Holyhead      | 54.9         | 47.5          | 50.4      | 48.6 | 4.53                 |
| Liverpool     | 54.0         | 44.9          | 48.0      | 46.2 | 3.62                 |
| Valencia      | 56.7         | 46.5          | 51.3      | 49.1 | 6.09                 |
| Roche's Point | 55.6         | 46.4          | 50.4      | 48.6 | 4.17                 |
| Pembroke      | 55.1         | 48.4          | 51.5      | 49.4 | 4.13                 |
| Scilly        | 56.8         | 50.7          | 53.9      | 52.0 | 3.84                 |
| Hurst Castle  | 57.7         | 46.8          | 51.5      | 50.5 | 3.24                 |
| Dover         | 56.2         | 47.8          | 51.5      | 49.4 | 3.28                 |
| LONDON        | 57.1         | 43.5          | 48.4      | 46.9 | 2.74                 |
| Oxford        | 55.7         | 42.9          | 47.0      | 45.8 | 2.72                 |
| Cambridge     | 57.0         | 41.6          | 46.6      | 45.7 | 2.36                 |
| Yarmouth      | 54.9         | 45.1          | 49.6      | 48.2 | 2.97                 |

NOTE — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 10 years 1866—85.





## GENERAL SITUATION AT 8 A.M.

### PRESSURE

Highest 30.2 ins. and upwards over Ireland and Wales  
Lowest 28.9 ins. and less in the north of Norway.

Gradients steep over the north of Scandinavia. Barometer falling generally most in the far north.

### TEMPERATURE

Highest 56° at Lisbon, 55° at Faerder & Helder & 54° at Skagen, Fianö, Stornoway, Wick, Ardrossan, Jersey, Biarritz, Perpignan and Nice.

Lowest 39° at Apataranda, 40° at Christiansund, 41° at Bodö and Hernäsand & 42° at Lumburg H.

### WIND

W in Scandinavia and the north of our Islands; strong to a gale in Norway  
Light or moderate NW over the Netherlands and the South part of the North Sea  
Moderate NE over France and the south of England

### WEATHER

Fine in Sweden, Denmark and some parts of Scotland,  
Cloudy or overcast elsewhere, with snow at Christiansund, thunder at Bodö, and rain at Munich & Jersey  
A little rain fell yesterday at our extreme northern and southern as well as at some of the Continental stations

### SEA

High at Christiansund, and rough at Bodö, but moderate to smooth elsewhere.

### PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The deep depression off the northwest of Norway will probably travel southeastwards over Scandinavia -  
The centre of the system is too far away to materially effect the weather over our Islands, but some increase in the force of the NW winds is probable over the North Sea.

## FORECASTS

for the 24 hours ending at NOON on 7<sup>th</sup> October 1887.

### DISTRICTS.

### FORECASTS.

|   |                  |  |
|---|------------------|--|
| 0 | SCOTLAND NORTH   | W <sup>ly</sup> and SW <sup>ly</sup> winds, moderate or fresh; dull, rain locally. |
| 1 | SCOTLAND EAST    | W <sup>ly</sup> winds, light or moderate; fair generally.                          |
| 2 | ENGLAND N.E.     | NW <sup>ly</sup> winds, light; fair generally, but cloudy.                         |
| 3 | ENGLAND EAST     | .....D.....D.....D.....  |
| 4 | MIDLAND COUNTIES | .....D.....D.....D.....  |
| 5 | ENGLAND SOUTH    | NE <sup>ly</sup> or N <sup>ly</sup> winds, moderate; fair generally, but cloudy.   |

### DISTRICTS.

### FORECASTS.

|    |               |  |
|----|---------------|--|
| 6  | SCOTLAND WEST | Same as N <sup>os</sup> 2 to 4.                |
| 7  | ENGLAND N.W.  | Same as N <sup>os</sup> 2 to 4.                |
| 8  | ENGLAND S.W.  | NE <sup>ly</sup> winds, light; dull generally. |
| 9  | IRELAND NORTH | Same as N <sup>o</sup> 0.                      |
| 10 | IRELAND SOUTH | Same as N <sup>o</sup> 8.                      |

### WARNINGS

NONE ISSUED.

Note.—The South Cone, point downwards (V) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.  
The North Cone, point upwards (A) 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.  | Dry. | Wet. | Wind. | Wes. | Sea. |               | Bar.  | Dry. | Wet. | Wind. | Wes. | Sea. |
|-------------------|-------|------|------|-------|------|------|---------------|-------|------|------|-------|------|------|
| Skudesnaes ...    | 30.10 | 54   | 51   | W 4   | 0    | 3    | Holyhead ...  | 30.33 | 54   | 49   | W 1   | 0    | 1    |
| Sumburgh Head ... | 30.07 | 53   | 51   | W 4   | 0    | 4    | Valencia ...  | 30.34 | 57   | 51   | E 1   | 0    | 1    |
| Stornoway ...     | 30.23 | 56   | 53   | W 5   | 0    | 4    | Scilly ...    | 30.28 | 55   | 50   | NE 3  | 0    | 3    |
| Aberdeen ...      | 30.24 | 58   | 53   | W 1   | 0    | 1    | Dungeness ... | 30.24 | 55   | 52   | NE 5  | 0    | 3    |
| Shields ...       | 30.27 | 53   | 49   | W 2   | 0    | 2    | London ...    | 30.27 | 54   | 49   | N 2   | 0    | 4    |
| Ardrossan ...     | 30.19 | 55   | 52   | W 3   | 0    | 2    | Yarmouth ...  | 30.26 | 54   | 51   | N 2   | 0    | 3    |
| Malin Head ...    | 30.33 | 53   | 49   | WSW 2 | 0    | 1    | Jersey ...    | 30.23 | 56   | 54   | NE 3  | 0    | 2    |
| Mullaghmore ...   | 30.36 | 52   | 49   | S 2   | 0    | 1    | Rochefort ... | 30.15 | 56   | 53   | NE 5  | 0    | 2    |
| Belmullet ...     | 30.35 | 55   | 51   | SSW 1 | 0    | *    |               |       |      |      |       |      |      |

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

Yesterday morning's reports showed that pressure varied from between 30.2 ins. over the British Isles, to about 29.9 ins. over the Gulf of Genoa, about 29.7 ins. over central Russia, and to about 29.5 ins. over the north of Scandinavia.

The anticyclone over the United Kingdom was decreasing in intensity, while a depression had appeared over Lapland and was moving eastwards or southeastwards. SW gales had set in over the Norwegian coast, and light SW to W breezes over the north of the British Isles, while over the Baltic Provinces of Russia, England, France, the Bay of Biscay and Spain the wind was mainly NE, and in Germany NW to W. The weather was fair but dull over the British Isles, but showery in many parts of the Continent. Temperature varied from 77° over the southeastern parts of the Mediterranean, to rather below the freezing point in Northern Russia, but was not changing much. The highest individual values were 77° at Malta, 71° at Palermo, 70° at Sfax (Algeria) 66° at Cagliari, Naples, and Sanguinairi; the lowest 23° at Archangel, 29° at Helsingfors, 31° at Uleaborg, 34° at Haparanda. The cold area over central France had disappeared.

Later on the depression in the north moved southeastwards towards the Baltic, and the wind freshened both at our northern stations and on the eastern shores of the North Sea.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for

Friday 7<sup>th</sup> October

1887.

Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

|                           | + YESTERDAY EVENING.               |                 |       |                   |          |                                  | 8 A.M. TO DAY.                    |             |      |                                   |       |                   |          |                |             |      | PAST 24 HOURS.      |  |  |
|---------------------------|------------------------------------|-----------------|-------|-------------------|----------|----------------------------------|-----------------------------------|-------------|------|-----------------------------------|-------|-------------------|----------|----------------|-------------|------|---------------------|--|--|
| STATIONS.                 | 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. |  |  |
|                           |                                    |                 | 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                 | 29.08                              | 34              | N     | 6                 | 0        | 29.33                            | -.22                              | 30          | 28   | -.9                               | N     | 6                 | 0        | *              | 43          | 30   | 0.12                |  |  |
| Hernösand                 | 29.35                              | 42              | NW    | 6                 | 6        | 29.39                            | -.14                              | 38          | 36   | -.3                               | Z     | 0                 | 6        | *              | 50          | 31   | -                   |  |  |
| Stockholm                 | 29.62                              | 40              | Z     | 0                 | 6        | 29.59                            | -.01                              | 40          | ?    | -.6                               | W     | 2                 | 6        | *              | 52          | 39   | -                   |  |  |
| Wisby                     | 29.67                              | 50              | NNE   | 4                 | 6        | 29.61                            | -.01                              | 41          | 42   | -.3                               | NW    | 2                 | 6        | *              | 57          | 45   | -                   |  |  |
| Bodö                      | 29.24                              | 40              | NW    | 2                 | e        | 29.46                            | +.58                              | 35          | 34   | -.6                               | E     | 2                 | 6        | 1              | 41          | 32   | 0.12                |  |  |
| Christiansund             | 29.69                              | 44              | WNW   | 9                 | r        | 29.58                            | -.11                              | 40          | 38   | 0                                 | WNW   | 8                 | r        | 7              | ?           | 37   | 0.28                |  |  |
| Skudesnaes                | 29.90                              | 44              | NW    | 4                 | r        | 29.79                            | -.07                              | 43          | 41   | -.6                               | N     | 1                 | r        | 2              | ?           | ?    | -                   |  |  |
| Christiania Fjord (Fæder) | 29.70                              | 49              | NW    | 4                 | 6        | 29.67                            | +.02                              | 46          | 39   | -.9                               | WNW   | 2                 | 6        | 3              | 59          | 45   | -                   |  |  |
| Skagen (The Scaw)         | 29.71                              | 51              | NE    | 2                 | 0        | 29.68                            | -.05                              | 47          | 41   | -.7                               | N     | 2                 | 6        | 2              | 57          | 46   | -                   |  |  |
| Fanö                      | 29.89                              | 51              | WNW   | 6                 | e        | 29.82                            | -.15                              | 51          | 51   | -.3                               | WNW   | 2                 | e        | *              | 59          | 48   | -                   |  |  |
| BRITAIN.                  |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |                |             |      |                     |  |  |
| Sumburgh Head             | 29.90                              | 37              | Z     | 0                 | r        | 29.91                            | -.10                              | 40          | 38   | -.2                               | N     | 1                 | 0        | 1              | 43          | 35   | 0.12                |  |  |
| Stornoway                 | 29.96                              | 55              | W     | 5                 | 0        | 29.93                            | -.14                              | 45          | 45   | -.9                               | E     | 6                 | r        | 5              | 57          | 43   | 0.55                |  |  |
| Wick                      | 29.92                              | 52              | NE    | 3                 | 0        | 29.92                            | -.11                              | 44          | 43   | -.10                              | NE    | 1                 | r        | 0              | 57          | 41   | 0.20                |  |  |
| Nairn                     | 29.97                              | 54              | W     | 3                 | e        | 29.92                            | -.15                              | 46          | 45   | -.7                               | ESE   | 2                 | r        | 1              | 57          | 46   | 0.34                |  |  |
| Aberdeen                  | 29.99                              | 53              | W     | 1                 | e        | 29.92                            | -.17                              | 46          | 46   | -.4                               | NE    | 1                 | 3f       | 0              | 62          | 46   | 0.03                |  |  |
| Leith                     | 30.06                              | 55              | W     | 1                 | e        | 29.94                            | -.21                              | 52          | 49   | -.1                               | W     | 1                 | 6        | *              | 60          | 50   | -                   |  |  |
| Shields                   | 30.06                              | 53              | Z     | 0                 | 0        | 29.94                            | -.21                              | 53          | 50   | +.2                               | SW    | 3                 | 0        | 2              | 55          | 46   | -                   |  |  |
| Spurn Head                | 30.08                              | 53              | WNW   | 2                 | 0        | 29.98                            | -.16                              | 52          | 51   | +.1                               | W     | 3                 | 6        | 4              | 54          | 49   | -                   |  |  |
| York                      | 30.11                              | 57              | W     | 1                 | 0        | 29.99                            | -.18                              | 51          | 49   | +.2                               | W     | 1                 | 0        | *              | 53          | 47   | -                   |  |  |
| Loughborough              | 30.13                              | 50              | NE    | 1                 | 0        | 30.05                            | -.14                              | 50          | 48   | +.2                               | W     | 2                 | 0        | *              | 53          | 48   | -                   |  |  |
| IRELAND.                  |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |                |             |      |                     |  |  |
| Ardsrossan                | 30.09                              | 54              | WNW   | 3                 | 0        | 29.98                            | -.19                              | 56          | 54   | +.2                               | WNW   | 4                 | 0        | 3              | 56          | 52   | -                   |  |  |
| Malin Head                | 30.13                              | 54              | NW    | 3                 | om       | 30.04                            | -.17                              | 53          | 51   | +.2                               | WNW   | 3                 | op       | 3              | 58          | 51   | 0.06                |  |  |
| Mullaghmore               | 30.16                              | 54              | W     | 2                 | om       | 30.07                            | -.16                              | 51          | 50   | +.1                               | SW    | 2                 | cp       | 3              | 55          | 48   | -                   |  |  |
| Belmullet                 | 30.19                              | 54              | WNW   | 2                 | 0        | 30.09                            | -.14                              | 51          | 50   | 0                                 | WNW   | 1                 | e        | *              | 55          | 50   | -                   |  |  |
| Donaghadee                | 30.14                              | 52              | W     | 2                 | 0        | 30.06                            | -.16                              | 51          | 49   | +.1                               | W     | 3                 | e        | 1              | 55          | 49   | -                   |  |  |
| SCOTLAND.                 |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |                |             |      |                     |  |  |
| Barrow-in-Furness         | 30.12                              | 54              | WNW   | 3                 | 0        | 30.03                            | -.16                              | 54          | 51   | +.3                               | WNW   | 3                 | 0        | *              | 54          | 51   | -                   |  |  |
| Liverpool (Bidston)       | 30.14                              | 50              | WNW   | 1                 | 0        | 30.06                            | -.15                              | 52          | 50   | +.1                               | W     | 3                 | 0        | 3              | 55          | 50   | -                   |  |  |
| Holyhead                  | 30.14                              | 54              | WNW   | 3                 | 0        | 30.07                            | -.13                              | 53          | 52   | 0                                 | W     | 2                 | om       | 2              | 55          | 51   | -                   |  |  |
| Parsonstown               | 30.19                              | 53              | Z     | 0                 | 0        | 30.13                            | -.14                              | 47          | 46   | 0                                 | Z     | 0                 | 6        | *              | 55          | 46   | -                   |  |  |
| Valencia                  | 30.18                              | 54              | NE    | 1                 | om       | 30.18                            | -.12                              | 48          | 46   | -.3                               | N     | 1                 | b        | 1              | 58          | 40   | -                   |  |  |
| FRANCE & NETHERLANDS.     |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |                |             |      |                     |  |  |
| Roche's Point             | 30.18                              | 53              | ENE   | 1                 | og       | 30.12                            | -.12                              | 51          | 48   | 0                                 | NNE   | 1                 | e        | 3              | 55          | 49   | -                   |  |  |
| Pembroke                  | 30.15                              | 52              | WNW   | 2                 | 0        | 30.10                            | -.13                              | 51          | 50   | 0                                 | NNE   | 2                 | og       | 1              | 53          | 50   | -                   |  |  |
| Scilly                    | 30.12                              | 54              | N     | 1                 | 0        | 30.14                            | -.04                              | 53          | 50   | 0                                 | NNE   | 1                 | om       | 4              | 54          | 51   | -                   |  |  |
| Prawle Point              | 30.13                              | 49              | NNE   | 2                 | 6        | 30.11                            | -.09                              | 51          | 47   | +.2                               | NNE   | 2                 | em       | 1              | 57          | 46   | -                   |  |  |
| Jersey                    | 30.11                              | 54              | NE    | 2                 | cdpm     | 30.08                            | -.06                              | 55          | 52   | +.1                               | ENE   | 1                 | om       | 1              | 56          | 52   | 0.05                |  |  |
| GERMANY.                  |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |                |             |      |                     |  |  |
| Hurst Castle              | 30.12                              | 50              | NNE   | 2                 | m        | 30.09                            | -.09                              | 48          | 46   | -.2                               | N     | 2                 | 6        | 1              | 57          | 41   | -                   |  |  |
| Dungeness                 | 30.08                              | 54              | NE    | 2                 | mg       | 30.03                            | -.08                              | 49          | 48   | -.2                               | N     | 2                 | m        | 1              | 55          | 47   | -                   |  |  |
| London                    | 30.12                              | 52              | NNE   | 1                 | 0        | 30.07                            | -.11                              | 49          | 46   | -.1                               | SW    | 2                 | 0        | *              | 57          | 48   | -                   |  |  |
| Oxford                    | 30.14                              | 50              | N     | 1                 | 0        | 30.07                            | -.12                              | 48          | 46   | -.1                               | W     | 1                 | og       | *              | 52          | 47   | -                   |  |  |
| Cambridge                 | 30.11                              | 51              | N     | 1                 | 0        | 30.03                            | -.15                              | 50          | 49   | +.1                               | W     | 1                 | og       | *              | 55          | 47   | -                   |  |  |
| Yarmouth                  | 30.08                              | 52              | NW    | 1                 | e        | 30.00                            | -.14                              | 49          | 47   | -.1                               | WNW   | 2                 | em       | 4              | 54          | 47   | -                   |  |  |
| SPAIN.                    |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |                |             |      |                     |  |  |
| Cuxhaven                  | 29.97                              | 50              | WNW   | 3                 | 6        | 29.92                            | -.13                              | 54          | 53   | +.2                               | NW    | 1                 | 0        | *              | 55          | 50   | 0.04                |  |  |
| Berlin                    | 29.94                              | 52              | W     | 1                 | 0        | 29.89                            | -.10                              | 50          | 49   | -.3                               | WNW   | 2                 | 0        | *              | 55          | 50   | -                   |  |  |
| Wiesbaden                 | *                                  | *               | *     | *                 | *        | 30.02                            | -.02                              | 50          | 48   | -.2                               | Z     | 0                 | 0        | *              | 54          | 48   | -                   |  |  |
| Munich                    | 30.00                              | 47              | E     | 1                 | f        | 30.01                            | +.01                              | 45          | 44   | 0                                 | NW    | 1                 | r        | *              | 50          | 43   | 0.04                |  |  |
| ITALY.                    |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |                |             |      |                     |  |  |
| The Helder                | 30.06                              | 54              | NW    | 1                 | e        | 29.98                            | -.12                              | 58          | 50   | -.1                               | W     | 3                 | 0        | 2              | 55          | 52   | -                   |  |  |
| Brussels                  | *                                  | *               | *     | *                 | *        | 30.04                            | -.07                              | 51          | 50   | +.1                               | WNW   | 1                 | 0        | *              | 56          | 50   | -                   |  |  |
| Cape Gris Nez             | 30.10                              | 54              | NE    | 2                 | m        | 30.04                            | -.09                              | 51          | 47   | +.1                               | NW    | 3                 | m        | 3              | 57          | 50   | -                   |  |  |
| Paris                     | 30.08                              | 60              | N     | 1                 | 0        | 30.06                            | -.02                              | 49          | 48   | -.1                               | N     | 1                 | 0        | *              | 53          | 48   | -                   |  |  |
| Brest                     | 30.11                              | 53              | NE    | 4                 | 0        | 30.08                            | -.07                              | 52          | 51   | -.4                               | Z     | 0                 | 0        | 3              | 59          | 50   | -                   |  |  |
| PORTUGAL.                 |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |                |             |      |                     |  |  |
| Lorient                   | 30.07                              | 56              | ENE   | 3                 | 0        | 30.06                            | -.06                              | 53          | 49   | +.1                               | E     | 3                 | 0        | 2              | 57          | 50   | -                   |  |  |
| Rochefort                 | 30.06                              | 57              | ENE   | 4                 | 0        | 30.04                            | -.03                              | 51          | 50   | 0                                 | NE    | 5                 | 0        | ?              | ?           | ?    | -                   |  |  |
| Belfort                   | 30.02                              | 49              | NE    | 3                 | 0        | 30.01                            | -.00                              | 47          | 46   | 0                                 | NE    | 3                 | f        | *              | 52          | 43   | -                   |  |  |
| Lyons                     | 30.02                              | 50              | ENE   | 1                 | r        | 29.99                            | -.02                              | 47          | 46   | -.2                               | WNW   | 3                 | 0        | *              | 54          | 46   | -                   |  |  |
| Nice                      | 29.90                              | 58              | Z     | 0                 | f        | 29.87                            | -.06                              | 53          | 49   | -.1                               | E     | 3                 | f        | 1              | 66          | 48   | -                   |  |  |
| AFRICA.                   |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |                |             |      |                     |  |  |
| Perpignan                 | 29.97                              | 58              | Z     | 0                 | 0        | 29.94                            | -.07                              | 49          | 48   | -.5                               | SE    | 1                 | 0        | *              | 68          | 47   | -                   |  |  |
| Biarritz                  | 29.97                              | 59              | Z     | 0                 | 0        | 29.96                            | -.02                              | 57          | 53   | +.3                               | SSW   | 1                 | 0        | 0              | 63          | 54   | -                   |  |  |
| ASIA.                     |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |                |             |      |                     |  |  |
| Corunna                   | *                                  | *               | *     | *                 | *        | *                                | *                                 | *           | *    | *                                 | *     | *                 | *        | *              | *           | *    | *                   |  |  |
| Lisbon                    | 29.95                              | 63              | NW    | 5                 | 6        | 30.01                            | +.06                              | 59          | 55   | +.3                               | WNW   | 1                 | 6        | 2              | 72          | 55   | -                   |  |  |

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on

Friday, 7<sup>th</sup> OCTOBER

1887.

## BAROMETER, WIND & SEA.

(Explanation of Map)

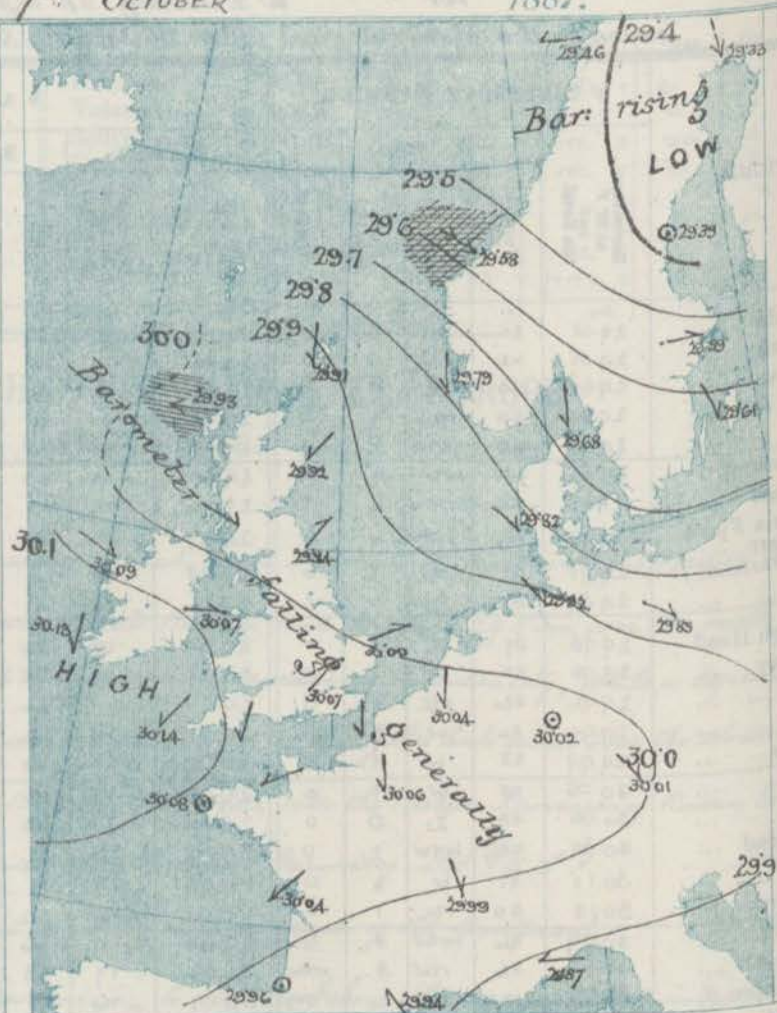
**Barometer** — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.  
**Wind** — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —  
 — force above 10; — forces 8 to 10;  
 — forces 5 to 7; — forces 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 10 Years 1871—1880.

| STATIONS.     | MEAN READINGS. |
|---------------|----------------|
|               | ins.           |
| Sumburgh Head | 29.885         |
| Stornoway     | 29.707         |
| Wick          | 29.715         |
| Nairn         | 29.738         |
| Aberdeen      | 29.748         |
| Leith         | 29.780         |
| Shields       | 29.821         |
| York          | 29.860         |
| Ardrossan     | 29.749         |
| Donaghadee    | 29.805         |
| Holyhead      | 29.830         |
| Liverpool     | 29.848         |
| Valencia      | 29.842         |
| Roche's Point | 29.843         |
| Pembroke      | 29.847         |
| Scilly        | 29.877         |
| Hurst Castle  | 29.894         |
| Dover         | 29.907         |
| LONDON        | 29.902         |
| Oxford        | 29.891         |
| Cambridge     | 29.894         |
| Yarmouth      | 29.889         |



## TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

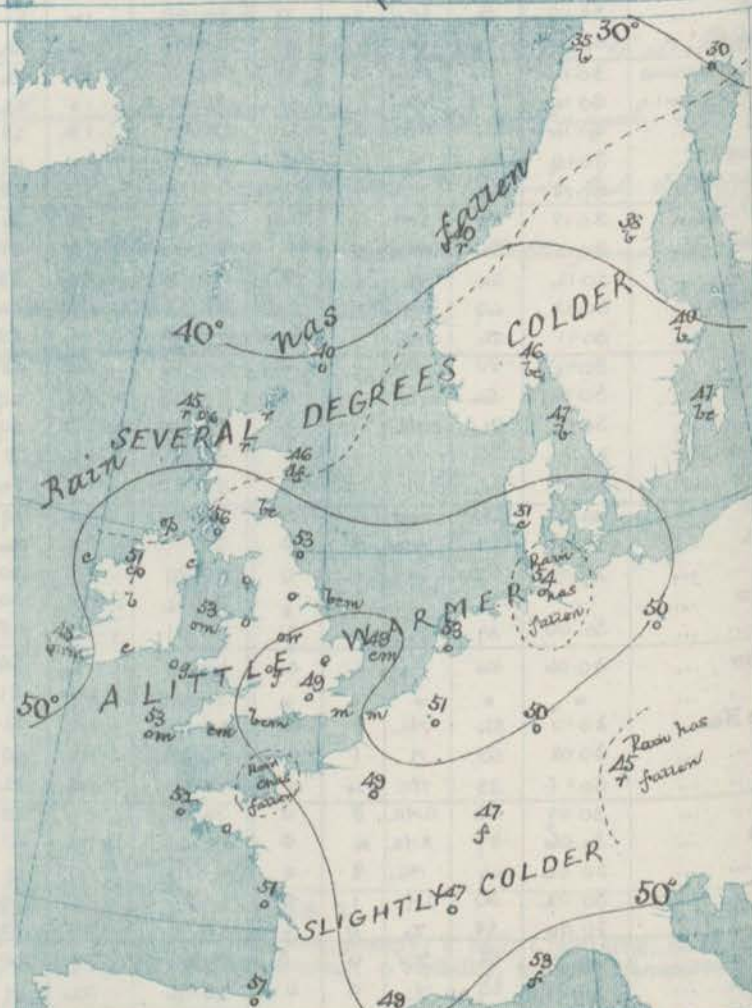
**Temperature** — Isotherms are drawn for each 10° Changes since previous morning are stated in words.  
**Weather** — is shown by Letters of the Beaufort Scale.  
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more,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

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of October.

| STATIONS      | TEMPERATURE  |               |           |      | RAINFALL.<br>(Inches) |
|---------------|--------------|---------------|-----------|------|-----------------------|
|               | Daily<br>Max | Daily<br>Min. | At 8 a.m. |      |                       |
|               |              |               | Dry.      | Wet. |                       |
| Sumburgh Head | 49.5         | 41.6          | 45.9      | 44.4 | 4.33                  |
| Stornoway     | 50.2         | 38.8          | 45.1      | 43.9 | 4.94                  |
| Wick          | 51.8         | 40.0          | 46.0      | 44.3 | 2.94                  |
| Nairn         | 51.4         | 40.7          | 44.6      | 42.5 | 2.88                  |
| Aberdeen      | 52.1         | 41.3          | 45.5      | 43.6 | 2.88                  |
| Leith         | 55.3         | 41.9          | 46.7      | 45.1 | 1.04                  |
| Shields       | 53.2         | 43.1          | 47.3      | 45.5 | 2.46                  |
| York          | 55.2         | 40.9          | 46.0      | 44.7 | 2.64                  |
| Ardrossan     | 53.7         | 43.2          | 47.7      | 45.4 | 4.81                  |
| Donaghadee    | 53.2         | 43.2          | 47.8      | 46.8 | 3.35                  |
| Holyhead      | 54.9         | 47.5          | 50.4      | 48.6 | 4.59                  |
| Liverpool     | 54.0         | 44.9          | 48.0      | 46.2 | 3.62                  |
| Valencia      | 56.7         | 46.5          | 51.3      | 49.1 | 6.09                  |
| Roche's Point | 55.6         | 46.4          | 50.4      | 48.6 | 4.17                  |
| Pembroke      | 55.1         | 48.4          | 51.5      | 49.4 | 4.13                  |
| Scilly        | 56.8         | 50.7          | 53.9      | 52.0 | 3.84                  |
| Hurst Castle  | 57.7         | 46.8          | 51.5      | 50.6 | 3.24                  |
| Dover         | 56.2         | 47.8          | 51.5      | 49.4 | 3.28                  |
| LONDON        | 57.1         | 43.5          | 48.4      | 46.9 | 2.74                  |
| Oxford        | 55.7         | 42.9          | 47.0      | 45.8 | 2.72                  |
| Cambridge     | 57.0         | 41.6          | 46.6      | 45.7 | 2.36                  |
| Yarmouth      | 54.9         | 45.1          | 49.5      | 48.2 | 2.97                  |

NOTE — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 10 years 1866—85





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest 30.1 ins. and upwards over the southwest of our Islands; 30. ins. and upwards over the greater part of Ireland, England, France and the Bay of Biscay.  
Lowest 29.4 ins. and less over the Gulf of Bothnia. A shallow depression is lying over Scotland.  
Barometer falling slowly at all but the northern Scandinavian stations.

## TEMPERATURE

Highest 59° at Lisbon, 57° at Biarritz, 56° at Ardrossan, 55° at Jersey and 54° at Ennaghaven and Barrow-in-Furness.  
Lowest 30° at Naparanda, 35° at Bodø, 38° at Hernösand and 40° at Stockholm, Christiansund and Lumburg Head.

## WIND

E. or N.E. over the greater part of Scotland, strong in force at Stornoway.  
Light W. over the north of Ireland and the north and east of England.  
N. to N.E. at our southern and the French stations; N.W. on the east shores of the North Sea.

## WEATHER

Fair in Sweden, Denmark and the greater part of Ireland as well as in the east of England.  
Dull elsewhere with rain in the north of Scotland and west of Norway.  
[Rain fell yesterday at several of our northern stations]

## SEA

High at Christiansund, rather rough at Stornoway and moderate off the east of England, but slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The shallow depression over Scotland seems likely to move southwards and an extension of rainy weather is therefore probable, with some decrease in temperature over Ireland and England.

The changes are however, likely to be very gradual.

## FORECASTS

For the 24 hours ending at NOON on 8<sup>th</sup> October 1887.

### DISTRICTS.

### FORECASTS.

|   |                  |   |
|---|------------------|---|
| 0 | SCOTLAND NORTH   | E. and N.E. winds, moderate; dull and rainy at first, some improvement later. |
| 1 | SCOTLAND EAST    | -----D-----D-----D-----   |
| 2 | ENGLAND N.E.     | Same as N° 5.   |
| 3 | ENGLAND EAST     | Same as N° 5.   |
| 4 | MIDLAND COUNTIES | Same as N° 5.   |
| 5 | ENGLAND SOUTH    | W. winds, light or moderate; weather becoming rainy and colder.               |

### DISTRICTS.

### FORECASTS.

|          |               |  |
|----------|---------------|--|
| 6        | SCOTLAND WEST | N. and N.W. winds, light to fresh; dull, some rain.          |
| 7        | ENGLAND N.W.  | -----D-----D-----D-----                                      |
| 8        | ENGLAND S.W.  | N. to N.W. winds, moderate; fair to unsettled and some rain. |
| 9        | IRELAND NORTH | Same as N° 6 and 7.  |
| 10       | IRELAND SOUTH | Same as N° 8.  |
| WARNINGS |               | NONE ISSUED.   |

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



# YESTERDAY'S 2 P.M. REPORTS.

|                   | Bar.  | Dry. | Wet. | Wind. | Wet. | Sea. |               | Bar.  | Dry. | Wet. | Wind. | Wet. | Sea. |
|-------------------|-------|------|------|-------|------|------|---------------|-------|------|------|-------|------|------|
| Skudesnaes ...    | 29.91 | 47   | 43   | WNW 6 | 0    | 3    | Holyhead ...  | 30.16 | 54   | 49   | WNW 3 | 0    | 2    |
| Sumburgh Head ... | 30.00 | 42   | 40   | W 0   | 7    | 1    | Valencia ...  | 30.20 | 58   | 52   | WNW 2 | 6cm  | 2    |
| Stornoway ...     | 30.01 | 56   | 54   | W 4   | 0    | 4    | Scilly ...    | 30.15 | 54   | 50   | ENE 1 | 0    | 3    |
| Aberdeen ...      | 30.03 | 59   | 55   | WNW 2 | 0    | 0    | Dungeness ... | 30.09 | 55   | 52   | NE 4  | m    | 3    |
| Shields ...       | 30.08 | 55   | 50   | W 2   | 0    | 2    | London ...    | 30.13 | 55   | 48   | NW 3  | 6c   | *    |
| Ardrossan ...     | 30.13 | 54   | 52   | WNW 3 | 0    | 2    | Yarmouth ...  | 30.10 | 53   | 50   | W 2   | cm   | 4    |
| Malin Head ...    | 30.15 | 56   | 53   | W 3   | 0    | 3    | Jersey ...    | 30.11 | 55   | 52   | ENE 2 | 0    | 2    |
| Mullaghmore ...   | 30.18 | 54   | 51   | SW 2  | 0m   | 2    | Rochefort ... | 30.07 | 56   | 52   | NE 4  | 0    | 2    |
| Belmullet ...     | 30.20 | 55   | 52   | W 2   | 0    | *    |               |       |      |      |       |      |      |

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

The reports for yesterday morning showed a still further reduction in the intensity of the anticyclone which, however, still lay over the British Isles, and an increase in the prevalence of W. by gradients over Northern Europe. Readings varied from between 30.1 ins and 30.3 ins. over Ireland and England, to 28.8 ins. in Lapland, and to about 29.9 ins. over the Straits of Gibraltar. The barometer was falling generally - slowly in the south, but quickly in the north, as a large depression advanced over the north of Scandinavia from the Atlantic. Strong S.W. by gales prevailed over the northern parts of Norway, and increasing W. to S.W. by winds over the Baltic, while over the British Isles the W. wind continued to spread more and more over England from the northwards. The weather was dull, squally, and rainy, over Norway, cloudy in most other places, and slight showers had fallen at some of our southern stations as well as over Germany. Temperature continued to decrease in the far south, but rose in the north, and ranged from about 75° over the southeastern parts of the Mediterranean to somewhat below the freezing point on the shores of the White Sea. The highest individual values were 75° at Malta and at Biskra (Algeria) 72° at Brindisi, 70° at Palermo, and 62° at Livourne, and Sanguinairé; the lowest 26° at Archangel, 36° at Knopio, 38° at Uleaborg and Haparanda, 40° at Christiansund and 41° at Hørnesund. Over Central France readings were rather lower than in the surrounding regions. Later in the day the large depression in the north moved quickly to the eastwards, but the barometer still fell over the United Kingdom generally.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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



# DAILY WEATHER REPORT.

for

Saturday 8<sup>th</sup> October

1887.

Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

| 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. |  |
|                            |                                    |                 | Dir.  | Force. (0 to 12.) |          | Reading at 8 A.M. and Sea Level. | Difference from 8 A.M. yesterday. | Dry.        | Wet. | Difference from 8 A.M. yesterday. | Dir.  | Force. (0 to 12.) |          |                | Max.        | Min.           |                     |  |
| SCANDINAVIA.               |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |                |             |                |                     |  |
| Haparanda ..               | 29.54                              | 24              | NE    | 2                 | S        | 29.69                            | + .36                             | 25          | 24   | - 5                               | NNE   | 2                 | 0        | *              | 36          | ?              | Inn.                |  |
| Hernösand ..               | 29.54                              | 34              | N     | 2                 | C        | 29.67                            | + .28                             | 29          | 27   | - 9                               | N     | 4                 | 0        | *              | 46          | ?              | 0.24                |  |
| Stockholm ..               | 29.56                              | 40              | W     | 2                 | b        | 29.56                            | - .03                             | 34          | 33   | - 6                               | N     | 2                 | 1        | *              | 48          | ?              | -                   |  |
| Wisby ..                   | 29.57                              | 46              | NW    | 4                 | b        | 29.59                            | - .02                             | 46          | 42   | - 1                               | WNW   | 2                 | 0        | *              | 50          | 39             | -                   |  |
| Bodö ..                    | 29.62                              | 32              | E     | 2                 | b        | 29.60                            | + .34                             | 30          | 28   | - 5                               | E     | 2                 | 1        | *              | 37          | 30             | -                   |  |
| Christiansund ..           | 29.65                              | 42              | NE    | 4                 | b        | 29.76                            | + .18                             | 39          | 38   | - 1                               | NSE   | 2                 | 1        | 5              | 43          | 36             | 0.28                |  |
| Skudesnaes ..              | 29.71                              | 42              | NW    | 1                 | c        | 29.78                            | - .01                             | 40          | 37   | - 3                               | N     | 2                 | 6        | 2              | 43          | ?              | -                   |  |
| Christiania Fjord (Furder) | 29.56                              | 47              | WNW   | 3                 | b        | 29.65                            | - .02                             | 42          | 36   | - 4                               | NNE   | 5                 | 6        | 1              | 50          | 41             | -                   |  |
| Skagen (The Scaw)          | 29.56                              | 49              | NW    | 3                 | 0        | 29.65                            | - .03                             | 45          | 40   | - 2                               | NNE   | 3                 | 6        | 3              | 50          | 43             | -                   |  |
| Faro ..                    | 29.73                              | 47              | WNW   | 4                 | 0        | 29.75                            | - .07                             | 45          | 42   | - 6                               | NW    | 4                 | 0        | *              | 57          | 45             | 0.12                |  |
| BRITAIN.                   |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |                |             |                |                     |  |
| Sumburgh Head              | 29.85                              | 40              | N     | 3                 | C        | 29.95                            | + .04                             | 40          | 38   | 0                                 | N     | 3                 | 6        | 3              | 44          | 36             | 0.01                |  |
| Stornoway ..               | 30.03                              | 39              | NE    | 5                 | b        | 30.07                            | + .14                             | 42          | 40   | - 3                               | NE    | 5                 | 0        | 5              | 47          | 36             | 0.10                |  |
| Wick ..                    | 29.94                              | 39              | N     | 2                 | b        | 30.01                            | + .09                             | 40          | 39   | - 4                               | NE    | 2                 | 0        | 1              | 43          | 33             | 0.15                |  |
| Nairn ..                   | 29.99                              | 43              | NE    | 4                 | 0        | 30.03                            | + .11                             | 41          | 40   | - 5                               | NE    | 3                 | 6        | 2              | 48          | 34             | 0.24                |  |
| Aberdeen ..                | 29.94                              | 42              | N     | 2                 | 0        | 29.98                            | + .06                             | 42          | 40   | - 4                               | WNW   | 3                 | 6        | 1              | 47          | 37             | 0.29                |  |
| Leith ..                   | 29.90                              | 52              | NW    | 1                 | T        | 29.99                            | + .05                             | 43          | 40   | - 9                               | NW    | 1                 | 0        | *              | 56          | 40             | 0.45                |  |
| Shields ..                 | 29.85                              | 54              | W     | 2                 | 0        | 29.95                            | + .01                             | 44          | 42   | - 9                               | NW    | 1                 | 1        | 2              | 58          | 41             | 0.15                |  |
| Sparn Head ..              | 29.90                              | 54              | W     | 3                 | C        | 29.91                            | - .07                             | 47          | 47   | - 5                               | NSE   | 3                 | 0        | 4              | 56          | 46             | 0.04                |  |
| York ..                    | 29.97                              | 53              | W     | 1                 | 0        | 29.94                            | - .05                             | 45          | 44   | - 6                               | NNE   | 1                 | 1        | *              | 59          | 44             | 0.07                |  |
| Loughborough               | 29.97                              | 53              | WSW   | 3                 | 0        | 29.93                            | - .12                             | 49          | 48   | - 1                               | WNW   | 2                 | 0        | *              | 57          | 48             | -                   |  |
| IRELAND.                   |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |                |             |                |                     |  |
| Ardrossan ..               | 29.89                              | 52              | WNW   | 4                 | T        | 29.99                            | + .01                             | 40          | 38   | - 16                              | NNE   | 1                 | 6        | 1              | 56          | 39             | 0.28                |  |
| Malin Head ..              | 29.94                              | 53              | NW    | 3                 | 0/p      | 29.99                            | - .05                             | 44          | 40   | - 9                               | E     | 3                 | 6        | 3              | 55          | 43             | 0.17                |  |
| Mullaghmore ..             | 29.95                              | 54              | WNW   | 4                 | 0/p      | 29.97                            | - .10                             | 48          | 46   | - 3                               | ESE   | 6                 | 0        | 5              | 56          | 46             | 0.12                |  |
| Belmullet ..               | 30.01                              | 55              | WNW   | 1                 | 0        | 30.00                            | - .09                             | 48          | 43   | - 3                               | NNE   | 4                 | 0        | *              | 56          | 47             | 0.10                |  |
| Donaghadee ..              | 29.96                              | 52              | W     | 1                 | 0        | 29.96                            | - .10                             | 44          | 42   | - 7                               | NE    | 6                 | 0        | 4              | 58          | 43             | 0.07                |  |
| SCOTLAND.                  |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |                |             |                |                     |  |
| Barrow-in-Furness          | 29.94                              | 54              | NW    | 3                 | C        | 29.90                            | - .13                             | 41          | 41   | - 13                              | NE    | 4                 | 1        | *              | 57          | 41             | 0.37                |  |
| Liverpool (Bilton)         | 29.96                              | 52              | W     | 2                 | C        | 29.88                            | - .17                             | 51          | 49   | - 1                               | SW    | 2                 | 0        | 3              | 55          | 49             | 0.18                |  |
| Holyhead ..                | 29.98                              | 54              | WSW   | 2                 | 0        | 29.89                            | - .18                             | 53          | 51   | 0                                 | W     | 2                 | 6        | 1              | 57          | 52             | -                   |  |
| Parsonstown ..             | 30.03                              | 52              | W     | 0                 | 0        | 29.94                            | - .19                             | 48          | 46   | + 1                               | NNE   | 1                 | 0        | *              | 59          | 46             | 0.03                |  |
| Valencia ..                | 30.06                              | 51              | NW    | 2                 | bcm      | 29.96                            | - .17                             | 49          | 48   | + 1                               | W     | 0                 | 0        | 1              | 60          | 46             | -                   |  |
| FRANCE & NETHERLANDS.      |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |                |             |                |                     |  |
| Roche's Point ..           | 30.04                              | 54              | WSW   | 1                 | b        | 29.94                            | - .18                             | 50          | 47   | - 1                               | N     | 1                 | 6        | 2              | 60          | 49             | -                   |  |
| Pembroke ..                | 30.03                              | 54              | NW    | 3                 | C        | 29.94                            | - .16                             | 55          | 53   | + 4                               | W     | 3                 | 6        | 2              | 55          | 51             | -                   |  |
| Scilly ..                  | 30.03                              | 54              | NNE   | 1                 | om       | 29.95                            | - .14                             | 53          | 51   | 0                                 | W     | 0                 | 0        | 1              | 55          | 51             | -                   |  |
| Prawle Point ..            | 30.05                              | 52              | WNW   | 2                 | 0        | 29.97                            | - .14                             | 51          | 50   | 0                                 | NW    | 2                 | 0        | 1              | 61          | 49             | -                   |  |
| Jersey ..                  | 30.02                              | 55              | ESE   | 1                 | b        | 29.98                            | - .10                             | 52          | 49   | - 3                               | NW    | 1                 | 0        | 1              | 57          | 47             | -                   |  |
| GERMANY.                   |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |                |             |                |                     |  |
| Hurst Castle ..            | 30.01                              | 52              | WNW   | 2                 | b        | 29.96                            | - .13                             | 50          | 48   | + 2                               | NW    | 1                 | 0        | 0              | 57          | 46             | -                   |  |
| Dungeness ..               | 29.94                              | 54              | WNW   | 2                 | m        | 29.93                            | - .10                             | 52          | 50   | + 3                               | WNW   | 1                 | 0        | 1              | 56          | 49             | -                   |  |
| London ..                  | 29.99                              | 54              | SW    | 1                 | og       | 29.96                            | - .11                             | 50          | 48   | + 1                               | WNW   | 2                 | 0        | *              | 59          | 47             | -                   |  |
| Oxford ..                  | 30.00                              | 51              | NW    | 1                 | 0        | 29.94                            | - .13                             | 49          | 47   | + 1                               | W     | 1                 | 0        | og             | 58          | 47             | -                   |  |
| Cambridge ..               | 29.96                              | 54              | N     | 1                 | 0        | 29.91                            | - .12                             | 50          | 49   | 0                                 | W     | 1                 | 0        | *              | 60          | 47             | 0.03                |  |
| Yarmouth ..                | 29.93                              | 54              | W     | 1                 | cm       | 29.89                            | - .11                             | 51          | 50   | + 2                               | W     | 1                 | 0        | 3              | 56          | 48             | 0.06                |  |
| FRANCE & NETHERLANDS.      |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |                |             |                |                     |  |
| Cuxhaven ..                | 29.84                              | 48              | W     | 2                 | T        | 29.77                            | - .15                             | 49          | 48   | - 5                               | NNE   | 2                 | 1        | *              | 53          | 48             | 0.86                |  |
| Berlin ..                  | 29.87                              | 53              | WSW   | 3                 | 0        | 29.81                            | - .08                             | 50          | 48   | 0                                 | SW    | 1                 | 0        | *              | 57          | 48             | 0.04                |  |
| Wiesbaden ..               | *                                  | *               | *     | *                 | *        | 29.85                            | - .07                             | 48          | 46   | - 2                               | W     | 0                 | 0        | *              | 52          | 46             | -                   |  |
| Munich ..                  | 29.97                              | 44              | E     | 1                 | 0        | 29.96                            | - .05                             | 45          | 44   | 0                                 | NW    | 1                 | 0        | *              | 52          | 43             | 0.04                |  |
| FRANCE & NETHERLANDS.      |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |                |             |                |                     |  |
| The Helder ..              | 29.88                              | 54              | W     | 3                 | 0        | 29.83                            | - .15                             | 51          | 50   | - 2                               | NNE   | 4                 | 0        | 3              | 55          | 50             | 0.04                |  |
| Brussels ..                | *                                  | *               | *     | *                 | *        | 29.93                            | - .11                             | 50          | 48   | - 1                               | SSW   | 1                 | 0        | *              | 54          | 49             | -                   |  |
| Cape Gris Nez ..           | 29.98                              | 53              | NW    | 1                 | b        | 29.93                            | - .11                             | 53          | 50   | + 2                               | W     | 4                 | 0        | 2              | 55          | 50             | -                   |  |
| Paris ..                   | 30.03                              | 51              | W     | 0                 | 0        | 29.99                            | - .07                             | 48          | 48   | - 1                               | SSW   | 1                 | 0        | *              | 54          | 48             | -                   |  |
| Brest ..                   | 30.02                              | 54              | ESE   | 1                 | m        | 30.03                            | - .00                             | 53          | 50   | + 1                               | E     | 3                 | 0        | 2              | 55          | 50             | -                   |  |
| FRANCE & NETHERLANDS.      |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |                |             |                |                     |  |
| Lorient ..                 | 30.04                              | 56              | ESE   | 1                 | 0        | 30.00                            | - .06                             | 53          | 49   | 0                                 | E     | 1                 | 0        | 1              | 59          | 50             | -                   |  |
| Rocheport ..               | 30.02                              | 55              | ESE   | 3                 | 0        | 30.02                            | - .02                             | 51          | 48   | 0                                 | ESE   | 4                 | 0        | 1              | 64          | 46             | -                   |  |
| Belfort ..                 | 30.01                              | 50              | NE    | 1                 | b        | 29.97                            | - .04                             | 48          | 46   | + 1                               | N     | 1                 | 6        | *              | 53          | 48             | -                   |  |
| Lyons ..                   | 29.96                              | 52              | N     | 3                 | 0        | 29.97                            | - .02                             | 46          | 44   | - 1                               | WNW   | 3                 | 0        | *              | 59          | 46             | -                   |  |
| Nice ..                    | 29.85                              | 50              | W     | 0                 | C        | 29.85                            | - .02                             | 57          | 53   | + 4                               | E     | 1                 | 0        | 1              | 64          | 52             | -                   |  |
| FRANCE & NETHERLANDS.      |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |                |             |                |                     |  |
| Perpignan ..               | 29.91                              | 58              | W     | 0                 | C        | 29.95                            | + .01                             | 49          | 48   | 0                                 | WNW   | 1                 | 0        | *              | 69          | 47             | -                   |  |
| Biarritz ..                | 29.99                              | 61              | NW    | 3                 | b        | 29.94                            | - .02                             | 53          | 50   | - 4                               | SSW   | 3                 | 6        | 0              | 64          | 52             | -                   |  |
| FRANCE & NETHERLANDS.      |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |                |             |                |                     |  |
| Corunna ..                 | *                                  | *               | *     | *                 | *        | 29.91                            | - .06                             | 57          | 54   | + 6                               | E     | 3                 | 0        | 4              | 68          | 42             | -                   |  |
| Lisbon ..                  | 29.99                              | 61              | W     | 4                 | b        | 29.92                            | - .09                             | 55          | 54   | - 4                               | ESE   | 4                 | 0        | 2              | 68          | 52             | -                   |  |

For Explanation of Columns, see p. 4.

Received for rate for insertion in Charts



# WEATHER CHARTS

for 8 a.m. on

Saturday, 8<sup>th</sup> OCTOBER.

1887.

## BAROMETER, WIND & 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

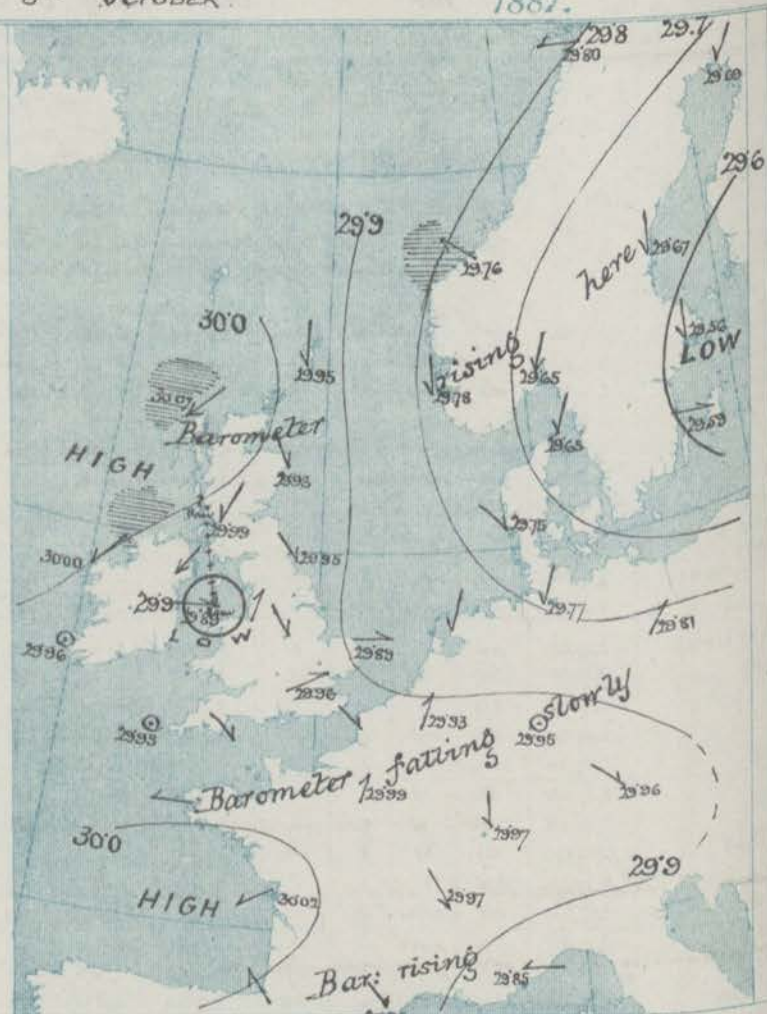
■ = Rough. ■ = High.

## MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of October

During the 10 Years 1871—1880.

| STATIONS.     | MEAN READINGS. |
|---------------|----------------|
|               | ins.           |
| Sumburgh Head | 29.085         |
| Stornoway     | 29.707         |
| Wick          | 29.718         |
| Nairn         | 29.738         |
| Aberdeen      | 29.748         |
| Leith         | 29.780         |
| Shields       | 29.821         |
| York          | 29.860         |
| Ardrossan     | 29.740         |
| Donaghadee    | 29.805         |
| Holyhead      | 29.830         |
| Liverpool     | 29.848         |
| Valencia      | 29.842         |
| Roche's Point | 29.843         |
| Pembroke      | 29.847         |
| Scilly        | 29.877         |
| Hurst Castle  | 29.894         |
| Dover         | 29.907         |
| LONDON        | 29.902         |
| Oxford        | 29.891         |
| Cambridge     | 29.894         |
| Yarmouth      | 29.880         |



## 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.<br>(Inches). |
|---------------|---------------|---------------|-----------|------|------------------------|
|               | Daily<br>Max. | Daily<br>Min. | At 8 a.m. |      |                        |
|               |               |               | Dry.      | Wet. |                        |
| Sumburgh Head | 40.5          | 41.6          | 45.9      | 44.4 | 4.33                   |
| Stornoway     | 50.2          | 38.8          | 45.1      | 43.9 | 4.04                   |
| Wick          | 51.8          | 40.0          | 46.0      | 44.3 | 2.94                   |
| Nairn         | 51.4          | 40.7          | 44.6      | 42.5 | 2.38                   |
| Aberdeen      | 52.1          | 41.3          | 45.5      | 43.5 | 2.88                   |
| Leith         | 55.3          | 41.9          | 46.7      | 45.1 | 1.94                   |
| Shields       | 53.2          | 43.1          | 47.3      | 45.5 | 2.46                   |
| York          | 55.2          | 40.9          | 46.0      | 44.7 | 2.64                   |
| Ardrossan     | 53.7          | 43.2          | 47.7      | 45.4 | 4.81                   |
| Donaghadee    | 53.2          | 43.2          | 47.8      | 46.8 | 3.35                   |
| Holyhead      | 54.9          | 47.5          | 50.4      | 48.6 | 4.53                   |
| Liverpool     | 54.0          | 44.9          | 48.0      | 46.2 | 3.62                   |
| Valencia      | 56.7          | 46.5          | 51.3      | 49.1 | 6.09                   |
| Roche's Point | 55.6          | 46.4          | 50.4      | 48.6 | 4.17                   |
| Pembroke      | 55.1          | 48.4          | 51.5      | 49.4 | 4.13                   |
| Scilly        | 56.8          | 50.7          | 53.9      | 52.0 | 3.84                   |
| Hurst Castle  | 57.7          | 46.8          | 51.5      | 50.5 | 3.24                   |
| Dover         | 56.2          | 47.8          | 51.5      | 49.4 | 3.28                   |
| LONDON        | 57.1          | 43.5          | 48.4      | 46.9 | 2.74                   |
| Oxford        | 55.7          | 42.9          | 47.0      | 45.8 | 2.72                   |
| Cambridge     | 57.0          | 41.6          | 46.6      | 45.7 | 2.36                   |
| Yarmouth      | 54.9          | 48.1          | 49.5      | 48.2 | 2.97                   |

Note — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 10 years 1866—85





# GENERAL SITUATION AT 8 A.M.

|             |   |
|-------------|---|
| PRESSURE    | Highest 30.0 in. and upwards over the north and west of Scotland and also over the Bay of Biscay<br>Lowest 29.6 in. and less over the Baltic, relatively low 29.9 in. and less over the Gulf of Genoa<br>and also in a small shallow depression lying over North Wales.<br>Barometer rising at all our northern stations, but falling slowly elsewhere. |
| TEMPERATURE | Highest 57° at Nice, 55° at Pembroke and Lisbon and 53° at Holyhead, Lillie, Cape Gris-Nez, Brest and Birmm<br>Lowest 25° at Kaparanda, 29° at Keriösand, 30° at Bodö, 34° at Stockholm, 39° at Christiansund, and<br>40° at Skudesnaes, Lumburgh Head, Wick and Ardrossan.   |
| WIND        | N. or N.E. over the north of our Islands and the greater part of the North Sea; strong in the north of Ireland<br>Light from W. or N.W. over the southern part of the United Kingdom.<br>Light from E. in the West of France.   |
| WEATHER     | Fine in the west and north of our Islands as well as at many of the Scandinavian and Danish stations.<br>Cloudy or overcast elsewhere, with rain in the north of England.<br>[Since yesterday rain has fallen at several of our northern and eastern stations.]   |
| SEA         | Rather rough at Christiansund, Hørnøya and Mullaghmore, but moderate to smooth elsewhere.   |

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The small depression over North Wales, will probably continue to move southwards, and rain is therefore likely to set in at most of our southern stations. In the west and north conditions will probably remain fair.

## FORECASTS

For the 24 hours ending at NOON on 9<sup>th</sup> October 1887.

| DISTRICTS.         | FORECASTS.  | DISTRICTS.       | FORECASTS.   |
|--------------------|---|------------------|--|
| 0 SCOTLAND NORTH   | N. and N.E. winds, moderate or fresh; fair generally.   | 6 SCOTLAND WEST  | N.E. winds, light; fair generally.                             |
| 1 SCOTLAND EAST    | -----D-----D-----D-----   | 7 ENGLAND N.W.   | N.E. winds, moderate or fresh; rainy to fair.                  |
| 2 ENGLAND N.E.     | N. and N.E. winds, light; rainy to fair.  | 8 ENGLAND S.W.   | Same as N <sup>os</sup> 3 to 5.                                |
| 3 ENGLAND EAST     | Same as N <sup>o</sup> 5.   | 9 IRELAND NORTH  | N.E. winds, fresh; showery to fair.                            |
| 4 MIDLAND COUNTIES | Same as N <sup>o</sup> 5.   | 10 IRELAND SOUTH | N. and N.E. winds, moderate; fair generally, but some showers. |
| 5 ENGLAND SOUTH    | N. breezes, veering to the N. <sup>th</sup> ; cloudy generally, with some rain, turning colder. | 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.  | Dry. | Wet. | Wind. | Wes. | Sea. |               | Bar.  | Dry. | Wet. | Wind. | Wes. | Sea. |
|-------------------|-------|------|------|-------|------|------|---------------|-------|------|------|-------|------|------|
| Skudesnaes ...    | 29.76 | 43   | 41   | W 2   | 7    | 3    | Holyhead ...  | 30.02 | 55   | 52   | WNW 2 | 0    | 1    |
| Sumburgh Head ... | 29.88 | 43   | 39   | WNW 3 | 6    | 3    | Valencia ...  | 30.09 | 58   | 52   | W 2   | 6cm  | 2    |
| Stornoway ...     | 29.99 | 44   | 43   | NE 6  | 7    | 5    | Scilly ...    | 30.06 | 55   | 51   | NE 2  | 0    | 4    |
| Aberdeen ...      | 29.92 | 46   | 45   | NE 1  | f a  | 3    | Dungeness ... | 29.99 | 56   | 51   | WNW 2 | m    | 1    |
| Shields ...       | 29.89 | 56   | 52   | W 3   | 0    | 2    | London ...    | 30.00 | 58   | 52   | W 2   | 0    | *    |
| Ardrossan ...     | 29.92 | 56   | 54   | WNW 4 | 0    | 3    | Yarmouth ...  | 29.94 | 56   | 52   | WNW 2 | cm   | 4    |
| Malin Head ...    | 29.98 | 53   | 51   | WNW 3 | 0    | 3    | Jersey ...    | 30.03 | 56   | 52   | NE 2  | 0    | 2    |
| Mullaghmore ...   | 30.02 | 56   | 53   | W 2   | 0m   | 2    | Rochefort ... | 30.03 | 60   | 54   | ENE 4 | 0    | 2    |
| Belmullet ...     | 30.04 | 56   | 54   | WNW 1 | 0    | *    |               |       |      |      |       |      |      |

## GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

The reports for yesterday morning showed that pressure then varied from a little above 30.1 ins. over the south of Ireland and from between 30.0 ins. and 30.1 ins. over the greater part of Ireland, England, and France to about 29.0 ins. over the east of Lapland and the White Sea - to which region the depression noticed near Bodø on the previous morning had advanced.

NW<sup>ly</sup> and N<sup>ly</sup> winds of great strength had set in over Denmark, Sweden, and the greater part of Norway - strong gales being reported in some places - while over the Gulf of Finland the wind was W<sup>ly</sup> and over Central Russia SW<sup>ly</sup>.

The weather was rainy in the north and northwest, and had been showery at some eastern stations; elsewhere it was dry, but very dull except over the southern part of Sweden.

Temperature ranged from 75° and more, over the south-eastern parts of the Mediterranean to several degrees below the freezing point over the north of Russia and was locally low over Central France.

The highest individual readings were 79° at Jfoz (Algiers), 78° at Malta, 72° at Palermo, 67° at Cagliari, and 64° at Palma; the lowest 19° at Archangel, 30° at Haparanda, 31° at Ulsaborg, 35° at Bodø and 38° at Hørnissand.

Over Central France the readings were below 50° and at Besançon the thermometer was as low as 42°.

Later on the wind began to shift to the E. in the north of Scotland and the barometer rose over Scandinavia.

## EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for Sunday 9<sup>th</sup> October. 1887.

Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

| STATIONS.                     | + YESTERDAY EVENING.               |                 |       |                   |          |                                  | 8 A.M. TO DAY.                    |             |      |                                   |       |                   |                |             |      |                     | PAST 24 HOURS. |  |  |
|-------------------------------|------------------------------------|-----------------|-------|-------------------|----------|----------------------------------|-----------------------------------|-------------|------|-----------------------------------|-------|-------------------|----------------|-------------|------|---------------------|----------------|--|--|
|                               | Barometer at 32° F. and Sea Level. | Temp. in Shade. | WIND. |                   | Weather. | BAROMETER.                       |                                   | SHADE TEMP. |      |                                   | WIND. |                   | Sea. (0 to 9.) | SHADE TEMP. |      | Amount of Rainfall. |                |  |  |
|                               |                                    |                 | Dir.  | Force. (0 to 12.) |          | Reading at 32° F. and Sea Level. | Difference from 8 a.m. yesterday. | Dry.        | Wet. | Difference from 8 a.m. yesterday. | Dir.  | Force. (0 to 12.) |                | Max.        | Min. |                     |                |  |  |
| SCANDINAVIA.                  |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |                |             |      |                     |                |  |  |
| Haparanda ..                  | 29.81                              | 34              | N     | 2                 | 0        | 29.87                            | + .18                             | 26          | 25   | + 1                               | N     | 2                 | 6              | *           | 26   | 23                  | Ins.           |  |  |
| Hernösand ..                  | 29.85                              | 31              | N     | 2                 | 6        | 30.01                            | + .24                             | 21          | 28   | + 2                               | NW    | 2                 | 6              | *           | 26   | 27                  | -              |  |  |
| Stockholm ..                  | 29.79                              | 32              | NW    | 6                 | 0        | 30.00                            | + .44                             | 21          | 28   | - 3                               | N     | 2                 | 6              | *           | 43   | 29                  | 0.04           |  |  |
| Wibby ..                      | 29.76                              | 47              | N     | 6                 | C        | 29.92                            | + .23                             | 29          | 26   | - 7                               | NNE   | 6                 | 7              | *           | 48   | 29                  | 0.04           |  |  |
| Bodö ..                       | 29.92                              | 28              | E     | 2                 | 6        | 29.96                            | + .16                             | 28          | 26   | - 2                               | E     | 2                 | 6              | 1           | 22   | 25                  | -              |  |  |
| Christiansund ..              | 29.93                              | 27              | ENE   | 1                 | 6        | 29.98                            | + .12                             | 25          | 21   | - 4                               | ENE   | 8                 | 6              | 4           | 11   | 22                  | 0.16           |  |  |
| Skudesnaes ..                 | 29.86                              | 41              | NNW   | 1                 | 6        | 29.96                            | + .18                             | 42          | 26   | + 2                               | ENE   | 4                 | 6              | 3           | 42   | 29                  | -              |  |  |
| Christiania Fjord (Færder) .. | 29.83                              | 26              | NNR   | 5                 | 7        | 30.02                            | + .22                             | 26          | 22   | - 6                               | NE    | 5                 | 6              | 1           | 45   | 26                  | 0.16           |  |  |
| Skagen (The Scaw) ..          | 29.86                              | 29              | X     | 0                 | 6        | 29.92                            | + .23                             | 29          | 26   | - 6                               | SE    | 3                 | 0              | 2           | 46   | 26                  | 0.12           |  |  |
| Fanø ..                       | 29.87                              | 41              | X     | 0                 | 6        | 29.88                            | + .13                             | 41          | 29   | - 4                               | ENE   | 2                 | 0              | *           | 52   | 37                  | -              |  |  |
| BRITISH ISLANDS.              |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |                |             |      |                     |                |  |  |
| Sumburgh Head ..              | 29.98                              | 29              | N     | 1                 | 6        | 29.95                            | 0.0                               | 28          | 27   | - 2                               | N     | 3                 | 7              | 2           | 49   | 26                  | 0.20           |  |  |
| Stornoway ..                  | 30.06                              | 28              | NR    | 5                 | C        | 29.97                            | - .10                             | 29          | 27   | - 3                               | NE    | 4                 | 7              | 4           | 48   | 24                  | 0.24           |  |  |
| Wick ..                       | 29.99                              | 29              | N     | 2                 | 6        | 29.94                            | - .07                             | 26          | 24   | - 4                               | SE    | 2                 | 6              | 1           | 40   | 23                  | 0.22           |  |  |
| Nairn ..                      | 30.04                              | 41              | NNW   | 4                 | C        | 29.95                            | - .08                             | 29          | 27   | - 2                               | SW    | 1                 | 0              | 1           | 49   | 26                  | 0.44           |  |  |
| Aberdeen ..                   | 29.95                              | 42              | NNW   | 4                 | 6        | 29.91                            | - .07                             | 28          | 27   | - 4                               | NNW   | 4                 | 6              | 2           | 50   | 23                  | 0.05           |  |  |
| Leith ..                      | 29.96                              | 46              | NW    | 2                 | 6        | 29.89                            | - .10                             | 42          | 41   | - 1                               | W     | 1                 | 0              | 3           | 51   | 29                  | -              |  |  |
| Shields ..                    | 29.91                              | 47              | N     | 2                 | 0        | 29.84                            | - .14                             | 45          | 41   | + 1                               | N     | 1                 | 7              | 2           | 48   | 41                  | 0.41           |  |  |
| Spurn Head ..                 | 29.87                              | 45              | NE    | 4                 | 7        | 29.74                            | - .17                             | 47          | 47   | 0                                 | ENE   | 3                 | 7              | 5           | 48   | 43                  | 0.37           |  |  |
| York ..                       | 29.91                              | 43              | NNE   | 1                 | 7        | 29.78                            | - .16                             | 44          | 43   | - 1                               | N     | 1                 | 7              | *           | 45   | 44                  | 0.70           |  |  |
| Loughborough ..               | 29.88                              | 47              | N     | 2                 | 7        | 29.75                            | - .18                             | 44          | 44   | - 5                               | NNE   | 1                 | 0              | *           | 51   | 43                  | 0.01           |  |  |
| GERMANY.                      |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |                |             |      |                     |                |  |  |
| Arrossau ..                   | 29.96                              | 44              | NNE   | 1                 | 6        | 29.89                            | - .10                             | 42          | 38   | + 2                               | N     | 1                 | 6              | 0           | 51   | 33                  | -              |  |  |
| Malin Head ..                 | 29.97                              | 47              | NR    | 2                 | 6        | 29.90                            | - .09                             | 45          | 41   | + 1                               | NNR   | 3                 | 6              | 3           | 49   | 42                  | 0.02           |  |  |
| Mullaghmore ..                | 29.97                              | 48              | ENE   | 5                 | 6        | 29.92                            | - .05                             | 44          | 41   | - 4                               | NE    | 4                 | 6              | 2           | 50   | 37                  | -              |  |  |
| Belmullet ..                  | 29.97                              | 46              | ENE   | 4                 | C        | 29.94                            | - .06                             | 45          | 42   | - 3                               | E     | 1                 | 6              | *           | 50   | 29                  | 0.01           |  |  |
| Donaghadee ..                 | 29.94                              | 48              | NE    | 4                 | 0        | 29.87                            | - .09                             | 45          | 41   | + 1                               | NE    | 5                 | 6              | 2           | 49   | 42                  | 0.02           |  |  |
| IRELAND.                      |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |                |             |      |                     |                |  |  |
| Barrow-in-Furness ..          | 29.88                              | 41              | N     | 3                 | 0        | 29.79                            | - .11                             | 48          | 42   | + 2                               | N     | 3                 | 6              | *           | 42   | 40                  | 0.25           |  |  |
| Liverpool (Bidston) ..        | 29.83                              | 43              | ENE   | 4                 | 0        | 29.77                            | - .11                             | 42          | 41   | - 9                               | ENE   | 2                 | 0              | 2           | 52   | 41                  | 0.34           |  |  |
| Holyhead ..                   | 29.85                              | 43              | NR    | 4                 | 0        | 29.78                            | - .11                             | 45          | 44   | - 8                               | NE    | 5                 | 0              | 4           | 60   | 44                  | 0.05           |  |  |
| Parsonstown ..                | 29.92                              | 46              | N     | 1                 | 0        | 29.78                            | - .16                             | 32          | 22   | - 15                              | X     | 0                 | 6              | *           | 49   | 21                  | -              |  |  |
| Valencia ..                   | 29.87                              | 52              | NNR   | 4                 | 0        | 29.81                            | - .15                             | 45          | 42   | - 4                               | NR    | 6                 | 0              | 5           | 57   | 44                  | -              |  |  |
| FRANCE & NETHERLANDS.         |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |                |             |      |                     |                |  |  |
| Roche's Point ..              | 29.86                              | 50              | NE    | 2                 | 0        | 29.77                            | - .17                             | 45          | 42   | - 5                               | NNR   | 4                 | 0              | 0           | 49   | 44                  | 0.12           |  |  |
| Pembroke ..                   | 29.85                              | 52              | NW    | 2                 | C        | 29.72                            | - .22                             | 48          | 47   | - 7                               | NNR   | 3                 | 0              | 4           | 56   | 47                  | -              |  |  |
| Seilly ..                     | 29.84                              | 54              | ENE   | 2                 | 0        | 29.65                            | - .20                             | 52          | 49   | - 1                               | ENE   | 1                 | 0              | 2           | 54   | 50                  | 0.03           |  |  |
| Prawle Point ..               | 29.89                              | 53              | WSW   | 2                 | 0        | 29.69                            | - .28                             | 50          | 49   | - 1                               | NNR   | 2                 | 0              | 1           | 57   | 46                  | -              |  |  |
| Jersey ..                     | 29.90                              | 55              | X     | 0                 | 0        | 29.67                            | - .21                             | 54          | 48   | + 2                               | ENE   | 3                 | 0              | 0           | 57   | 50                  | -              |  |  |
| SPAIN.                        |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |                |             |      |                     |                |  |  |
| Hurst Castle ..               | 29.88                              | 53              | WSW   | 2                 | C        | 29.71                            | - .25                             | 50          | 50   | 0                                 | ENE   | 1                 | 0              | 0           | 62   | 49                  | 0.01           |  |  |
| Dungeness ..                  | 29.86                              | 56              | W     | 2                 | C        | 29.71                            | - .22                             | 56          | 51   | + 4                               | WSW   | 3                 | C              | 1           | 61   | 49                  | 0.04           |  |  |
| London ..                     | 29.85                              | 54              | SW    | 2                 | 0        | 29.72                            | - .24                             | 52          | 48   | 0                                 | SE    | 1                 | 0              | *           | 62   | 47                  | -              |  |  |
| Oxford ..                     | 29.85                              | 51              | W     | 1                 | 0        | 29.72                            | - .22                             | 46          | 45   | - 2                               | N     | 1                 | 0              | *           | 60   | 45                  | -              |  |  |
| Cambridge ..                  | 29.85                              | 52              | N     | 1                 | 0        | 29.71                            | - .20                             | 48          | 43   | - 2                               | X     | 0                 | 0              | *           | 57   | 46                  | 0.04           |  |  |
| ITALY.                        |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |                |             |      |                     |                |  |  |
| Yarmouth ..                   | 29.86                              | 51              | SE    | 2                 | 0        | 29.72                            | - .16                             | 49          | 43   | - 2                               | WSW   | 2                 | 0              | 3           | 58   | 46                  | 0.18           |  |  |
| Cuxhaven ..                   | 29.89                              | 46              | NW    | 2                 | C        | 29.89                            | + .12                             | 46          | 44   | - 2                               | ENE   | 3                 | 0              | *           | 49   | 45                  | -              |  |  |
| Berlin ..                     | 29.87                              | 47              | X     | 0                 | 0        | 29.97                            | + .16                             | 41          | 40   | - 9                               | 8     | 1                 | C              | *           | 55   | 41                  | 0.04           |  |  |
| Wiesbaden ..                  | *                                  | *               | *     | *                 | *        | 29.92                            | - .03                             | 42          | 41   | - 5                               | NW    | 1                 | 0              | *           | 55   | 29                  | -              |  |  |
| Munich ..                     | 29.95                              | 46              | X     | 0                 | 0        | 29.92                            | - .04                             | 43          | 43   | - 2                               | E     | 2                 | 6              | *           | 50   | 29                  | -              |  |  |
| PORTUGAL.                     |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |                |             |      |                     |                |  |  |
| The Helder ..                 | 29.88                              | 50              | ENE   | 1                 | C        | 29.74                            | - .09                             | 49          | 43   | - 2                               | 8     | 1                 | 0              | 1           | 54   | 48                  | 0.24           |  |  |
| AFRICA.                       |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |                |             |      |                     |                |  |  |
| Brussels ..                   | *                                  | *               | *     | *                 | *        | 29.79                            | - .14                             | 51          | 49   | + 1                               | ENE   | 1                 | 0              | *           | 52   | 50                  | -              |  |  |
| Cape Gris Nez ..              | 29.89                              | 55              | WSW   | 4                 | C        | 29.75                            | - .18                             | 50          | 48   | - 3                               | NE    | 3                 | 0              | 1           | 61   | 50                  | -              |  |  |
| Paris ..                      | 29.94                              | 51              | 8     | 1                 | 0        | 29.77                            | - .22                             | 46          | 43   | - 2                               | ENE   | 1                 | 0              | *           | 57   | 41                  | -              |  |  |
| Brest ..                      | 29.83                              | 55              | SE    | 4                 | 0        | 29.68                            | - .40                             | 52          | 51   | - 1                               | E     | 5                 | 0              | 4           | 57   | 48                  | -              |  |  |
| ASIA.                         |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |                |             |      |                     |                |  |  |
| Lorient ..                    | 29.90                              | 53              | SE    | 3                 | C        | 29.68                            | - .27                             | 51          | 49   | - 2                               | ENE   | 4                 | 0              | 2           | 59   | 48                  | -              |  |  |
| Rochefort ..                  | 29.92                              | 57              | ENE   | 3                 | 6        | 29.64                            | - .28                             | 57          | 49   | 0                                 | ENE   | 5                 | 0              | ?           | ?    | ?                   | -              |  |  |
| Belfort ..                    | *                                  | *               | *     | *                 | *        | *                                | *                                 | *           | *    | *                                 | *     | *                 | *              | *           | *    | *                   | -              |  |  |
| Lyons ..                      | 29.93                              | 52              | NNR   | 2                 | 6        | 29.85                            | - .13                             | 41          | 40   | - 5                               | 8     | 1                 | 6              | *           | 56   | 28                  | -              |  |  |
| Nice ..                       | 29.85                              | 57              | E     | 1                 | 6        | 29.91                            | + .06                             | 56          | 51   | - 1                               | E     | 1                 | 6              | 1           | 62   | 50                  | -              |  |  |
| AMERICA.                      |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |                |             |      |                     |                |  |  |
| Perpignan ..                  | 29.84                              | 57              | SE    | 1                 | 6        | 29.78                            | + .17                             | 55          | 52   | + 6                               | NW    | 3                 | 0              | *           | 72   | ?                   | -              |  |  |
| Biarritz ..                   | 29.82                              | 62              | E     | 4                 | 6        | 29.59                            | - .25                             | 62          | 55   | + 10                              | 8     | 5                 | 7              | 1           | 66   | ?                   | 0.04           |  |  |
| EUROPE.                       |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |                |             |      |                     |                |  |  |
| Corunna ..                    | *                                  | *               | *     | *                 | *        | *                                | *                                 | *           | *    | *                                 | *     | *                 | *              | *           | *    | *                   | -              |  |  |
| Lisbon ..                     | 29.76                              | 64              | 8     | 5                 | 7        | 29.62                            | - .29                             | 64          | 62   | + 9                               | W     | 3                 | 0              | ?           | 64   | ?                   | 0.99           |  |  |

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on

Sunday 9<sup>th</sup> October

1887

## BAROMETER, WIND & SEA.

(Explanation of Map)

**Barometer** — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.  
**Wind** — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —

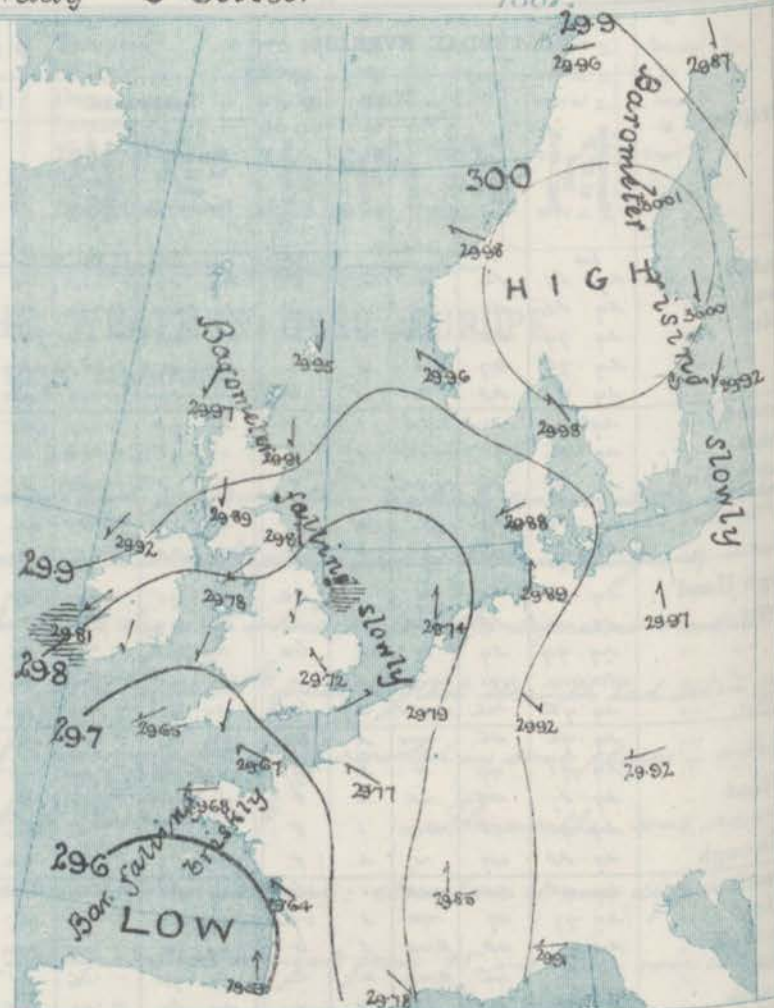
→ = force above 10; →→ = forces 8 to 10;  
 →→ = forces 5 to 7; →→ = forces 4 to 5;  
 ○ = dead calm.

**Sea Disturbance** — where considerable is shown, thus  
 [Symbol] = Rough [Symbol] = High

## MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of October.  
 During the 10 years 1871—1880.

| STATIONS.     | MEAN READINGS. |
|---------------|----------------|
|               | IN.            |
| Sumburgh Head | 29.685         |
| Stornoway     | 29.707         |
| Wick          | 29.718         |
| Nairn         | 29.738         |
| Aberdeen      | 29.748         |
| Leith         | 29.780         |
| Shields       | 29.821         |
| York          | 29.860         |
| Ardrossan     | 29.749         |
| Donaghadee    | 29.805         |
| Holyhead      | 29.830         |
| Liverpool     | 29.848         |
| Valencia      | 29.842         |
| Roche's Point | 29.843         |
| Pembroke      | 29.847         |
| Scilly        | 29.877         |
| Hurst Castle  | 29.894         |
| Dover         | 29.907         |
| LONDON        | 29.903         |
| Oxford        | 29.891         |
| Cambridge     | 29.894         |
| Yarmouth      | 29.880         |



## 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<br>(Inches) |
|---------------|--------------|---------------|-----------|------|----------------------|
|               | Daily<br>Max | Daily<br>Min. | At 8 a.m. |      |                      |
|               |              |               | Dry.      | Wet. |                      |
| Sumburgh Head | 49.5         | 41.6          | 45.9      | 44.4 | 4.33                 |
| Stornoway     | 50.2         | 38.8          | 45.1      | 43.9 | 4.94                 |
| Wick          | 51.8         | 40.0          | 46.0      | 44.3 | 2.94                 |
| Nairn         | 51.4         | 40.7          | 44.6      | 42.5 | 2.38                 |
| Aberdeen      | 52.1         | 41.3          | 45.5      | 43.5 | 2.88                 |
| Leith         | 55.3         | 41.9          | 46.7      | 45.1 | 1.04                 |
| Shields       | 53.2         | 43.1          | 47.3      | 45.5 | 2.46                 |
| York          | 55.2         | 40.9          | 46.0      | 44.7 | 2.64                 |
| Ardrossan     | 53.7         | 43.2          | 47.7      | 45.4 | 4.81                 |
| Donaghadee    | 53.2         | 43.2          | 47.8      | 46.8 | 3.35                 |
| Holyhead      | 54.9         | 47.5          | 50.4      | 48.6 | 4.53                 |
| Liverpool     | 54.0         | 44.9          | 48.0      | 46.2 | 3.62                 |
| Valencia      | 56.7         | 46.5          | 51.3      | 49.1 | 6.09                 |
| Roche's Point | 55.6         | 46.4          | 50.4      | 48.6 | 4.17                 |
| Pembroke      | 55.1         | 48.4          | 51.5      | 49.4 | 4.16                 |
| Scilly        | 56.8         | 50.7          | 53.9      | 52.0 | 8.84                 |
| Hurst Castle  | 57.7         | 46.8          | 51.5      | 50.5 | 3.24                 |
| Dover         | 56.2         | 47.8          | 51.5      | 49.4 | 3.28                 |
| LONDON        | 57.1         | 43.5          | 48.4      | 46.9 | 2.74                 |
| Oxford        | 55.7         | 42.9          | 47.0      | 45.8 | 2.72                 |
| Cambridge     | 57.0         | 41.6          | 46.6      | 45.7 | 2.36                 |
| Yarmouth      | 54.9         | 45.1          | 49.5      | 48.2 | 2.07                 |

NOTE — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 10 years 1866—85.





## GENERAL SITUATION AT 8 A.M.

### PRESSURE

*Highest 30.5 ins. and upwards over Scandinavia.*

*Lowest 29.6 ins. and less, in a large depression lying over the Bay of Biscay and the North of Spain.*

*Barometer rising in Scandinavia and Denmark, falling elsewhere, - briskly in the West of France.*

### TEMPERATURE

*Highest 65° at Lisbon, 63° at Biarritz, 56° at Dungeness and Nice, 53° at Perpignan, and 51° at Jersey.*

*Lowest 26° at Haparanda, 28° at Bodo, 31° at Hernösand and Stockholm, and 33° at Farnborough.*

### WIND

*S or N.E. over France, Germany, the Netherlands, light in force generally but fresh in the west of France.*

*Moderate or fresh from N.E. in the west and north of our Islands.*

*Light and somewhat variable in the southeast of England.*

### WEATHER

*Dull in England and the west and south of France, with rain in many places.*

*Fair in most other localities but rainy in the Shetlands and Hebrides.*

*[Rain fell yesterday in many parts of Western Europe, the largest amounts being 1.0 in. at Lisbon, 0.7 in. at York, and 0.5 in. at Huron.]*

### SEA

*Rather rough at Spurn Head, and Valencia, but moderate to smooth elsewhere.*

### PROBABLE CHANGES IN SYSTEM NOW PREVALENT

*The shallow depression which had reached North Wales yesterday, has travelled slowly southwards and is now dispersing over Central England.*

*A larger disturbance is however, advancing from Spain over the Bay of Biscay and the barometer is now falling decidedly in the west of France.*

## FORECASTS

for the 24 hours ending at NOON on 10<sup>th</sup> October 1887.

### DISTRICTS.

- 0 { SCOTLAND
- 1 { NORTH
- 2 { SCOTLAND
- 3 { EAST
- 4 { ENGLAND
- 5 { N.E.
- 6 { ENGLAND
- 7 { EAST
- 8 { MIDLAND
- 9 { COUNTIES
- 10 { ENGLAND
- 11 { SOUTH

### FORECASTS.

ISSUED

### DISTRICTS.

- 6 { SCOTLAND
- 7 { WEST
- 8 { ENGLAND
- 9 { N.W.
- 10 { ENGLAND
- 11 { S.W.
- 12 { IRELAND
- 13 { NORTH
- 14 { IRELAND
- 15 { SOUTH

### WARNINGS

### FORECASTS.

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.  | Dry. | Wet. | Wind. | Wca. | Sea. |               | Bar.  | Dry. | Wet. | Wind. | Wca.  | Sea. |
|-------------------|-------|------|------|-------|------|------|---------------|-------|------|------|-------|-------|------|
| Skudeenæs ...     | 29.82 | 48   | ?    | NNW 5 | 6    | 1    | Holyhead ...  | 29.84 | 54   | 51   | NNE 4 | c m q | 2    |
| Sumburgh Head ... | 29.98 | 45   | 42   | N 2   | 6    | 2    | Valencia ...  | 29.89 | 57   | 52   | NNW 1 | om    | 2    |
| Stornoway ...     | 20.06 | 47   | 42   | NE 5  | 6c   | 5    | Scilly ...    | 29.89 | 54   | 52   | ESE 1 | o     | 1    |
| Aberdeen ...      | 29.97 | 48   | 44   | NNW 3 | 6    | 2    | Dungeness ... | 29.88 | 57   | 52   | W 2   | c     | 1    |
| Shields ...       | 29.92 | 46   | 43   | NNW 1 | o    | 3    | London ...    | 29.88 | 62   | 53   | W 2   | c     | *    |
| Ardrossan ...     | 29.96 | 51   | 47   | NNE 3 | o    | 2    | Yarmouth ...  | 29.88 | 53   | 51   | SE 2  | 6c    | 3    |
| Malin Head ...    | 29.99 | 49   | 44   | NE 3  | c    | 2    | Jersey ...    | 29.92 | 57   | 51   | NW 1  | o     | 1    |
| Mullaghmore ...   | 29.97 | 48   | 44   | ESE 5 | 6c v | 4    | Rochefort ... | 29.90 | 63   | 57   | SSE 1 | c     | 2    |
| Belmullet ...     | 29.98 | 50   | 44   | ESE 4 | 6c   | *    |               |       |      |      |       |       |      |

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

The reports for yesterday morning showed that pressure varied from 30. in. and more over the north-west coasts of the British Isles, and the Bay of Biscay, to rather below 29.5 in. in an elongated depression, which lay over the Baltic and Gulf of Finland, and the centre of which was moving northeastwards towards the White Sea. A second (small and shallow) depression lay over the Irish Sea and was moving southwards. The winds were N.W. over nearly the whole of Western Europe, but drew into E. over the Bay of Biscay and were of moderate strength, but a S.W. breeze was felt locally at the mouth of the Mersey, while W. and S.W. winds prevailed generally over Central Europe and the Baltic. The weather was unsettled except in the southwest and south. Temperature ranged from 70. and more over the southern and eastern part of the Mediterranean, and from upwards of 50. over the southern and western parts of England, to several degrees below the freezing point over Northern Europe. The highest individual readings were 75. at Malta, 72. at Brindisi, and Palermo, and 71. at Sfax and Biskra, (Algeria), 64. at Sanguinaires, and Trieste, 63. at Barcelona; the lowest 23. at Uleaborg, 25. at Kopenhagen, 27. at Archangel, 29. at Hernösand, and 40. at Sumburgh Head.

During the day the depression over the Baltic travelled northeastwards, while that over the Irish Sea filled up. The barometer, however, continued to fall slowly over Southwestern Europe, and at night a heavy storm set in over Portugal.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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# DAILY WEATHER REPORT.

for Monday 10<sup>th</sup> October 1887.

Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

| STATIONS.           | + YESTERDAY EVENING.               |                 |       |                   |          |   | 8 A.M. TO DAY.                    |             |      |                                   |       |                   |          |                |             |      | PAST 24 HOURS.      |      |  |
|---------------------|------------------------------------|-----------------|-------|-------------------|----------|---|-----------------------------------|-------------|------|-----------------------------------|-------|-------------------|----------|----------------|-------------|------|---------------------|------|--|
|                     | Barometer at 35° F. and Sea Level. | Temp. in Shade. | WIND. |                   | Weather. | Barometer. Reading at 35° F. and Sea Level. | Difference from 8 a.m. yesterday. | SHADE TEMP. |      |                                   | WIND. |                   | Weather. | Sea. (0 to 9.) | SHADE TEMP. |      | Amount of Rainfall. |      |  |
|                     |                                    |                 | Dir.  | Force. (0 to 12.) |          |   |                                   | Dry.        | Wet. | Difference from 8 a.m. yesterday. | Dir.  | Force. (0 to 12.) |          |                | Max.        | Min. |                     |      |  |
| SCANDINAVIA.        |                                    |                 |       |                   |          |   |                                   |             |      |                                   |       |                   |          |                |             |      |                     |      |  |
| Haparanda ..        | Ina.                               | °               |       |                   |          | Ina.  | Ina.                              | °           | °    | °                                 |       |                   |          |                |             | °    | °                   | Ina. |  |
| Hernösand ..        | 29.98                              | 25              | N     | 2                 | 0        | 30.07                                       | + .20                             | 25          | 24   | - 1                               | N     | 0                 | 0        | *              | 32          | 23   | -                   |      |  |
| Stockholm ...       | 30.07                              | 27              | N     | 0                 | 6        | 30.11                                       | + .10                             | 23          | 22   | - 8                               | N     | 0                 | 6        | *              | 45          | ?    | -                   |      |  |
| Wisby ...           | 30.11                              | 33              | N     | 0                 | 6        | 30.10                                       | + .10                             | 29          | 28   | - 2                               | ESE   | 2                 | 6        | *              | 37          | 28   | -                   |      |  |
| Bodo ...            | 30.04                              | 30              | E     | 2                 | 6        | 30.00                                       | + .08                             | 39          | 37   | 0                                 | ESE   | 4                 | 0        | *              | 43          | ?    | -                   |      |  |
| Christiansund...    | 29.95                              | 32              | E     | 2                 | 0        | 29.90                                       | - .06                             | 35          | 32   | + 7                               | ESE   | 2                 | 0        | 1              | ?           | 27   | -                   |      |  |
| Skudesnaes ...      | 29.98                              | 28              | ESE   | 2                 | 6        | 29.88                                       | - .10                             | 32          | 30   | - 3                               | ESE   | 4                 | 6        | 3              | 39          | 28   | -                   |      |  |
| Christiania Fjord   | 29.92                              | 22              | E     | 2                 | 6        | 29.76                                       | - .20                             | 39          | 33   | - 5                               | ESE   | 5                 | 0        | 4              | 50          | ?    | -                   |      |  |
| (Fæder)             | 30.02                              | 39              | NE    | 3                 | 6        | 29.86                                       | - .17                             | 37          | 35   | + 1                               | NE    | 5                 | 0        | 2              | 39          | 36   | -                   |      |  |
| Skagen (The Scaw)   | 29.95                              | 30              | SE    | 5                 | 0        | 29.69                                       | - .29                             | 40          | 40   | + 1                               | SE    | 6                 | 0        | 4              | 41          | 37   | 0.70                |      |  |
| Faro ...            | 29.65                              | 43              | E     | 6                 | 0        | 29.39                                       | - .49                             | 46          | 45   | + 5                               | E     | 6                 | 0        | *              | 48          | ?    | 0.20                |      |  |
| BRITISH ISLANDS.    |                                    |                 |       |                   |          |   |                                   |             |      |                                   |       |                   |          |                |             |      |                     |      |  |
| Sumburgh Head       | 29.91                              | 43              | N     | 1                 | bc       | 29.83                                       | - .12                             | 38          | 36   | 0                                 | N     | 1                 | bc       | 2              | 46          | 34   | 0.20                |      |  |
| Stornoway ...       | 29.92                              | 40              | NE    | 6                 | T        | 29.86                                       | - .11                             | 40          | 40   | + 1                               | NE    | 5                 | 0        | 4              | 44          | 35   | 0.67                |      |  |
| Wick ...            | 29.86                              | 42              | N     | 3                 | 0        | 29.78                                       | - .16                             | 43          | 40   | + 7                               | NW    | 2                 | bc       | 0              | 48          | 35   | 0.12                |      |  |
| Nairn ...           | 29.86                              | 40              | NW    | 3                 | 0        | 29.81                                       | - .14                             | 37          | 36   | - 2                               | W     | 1                 | op       | 2              | 43          | 35   | 0.99                |      |  |
| Aberdeen...         | 29.81                              | 42              | N     | 3                 | 6        | 29.73                                       | - .18                             | 44          | 41   | + 6                               | NE    | 6                 | cp       | 7              | 49          | 36   | 0.05                |      |  |
| Leith ...           | 29.78                              | 41              | NE    | 4                 | 0        | 29.68                                       | - .21                             | 41          | 41   | - 1                               | NE    | 3                 | cq/p     | *              | 46          | 39   | 0.17                |      |  |
| Shields ...         | 29.68                              | 47              | NE    | 3                 | 0        | 29.54                                       | - .27                             | 47          | 44   | + 2                               | NNE   | 4                 | cp       | 5              | 48          | 43   | 0.83                |      |  |
| Spurn Head ...      | 29.56                              | 48              | NE    | 3                 | T        | 29.37                                       | - .37                             | 50          | 49   | + 3                               | NNE   | 6                 | cq/p     | 6              | 50          | 46   | 0.34                |      |  |
| York ...            | 29.64                              | 44              | NW    | 2                 | T        | 29.48                                       | - .30                             | 44          | 43   | 0                                 | NW    | 3                 | 0        | *              | 46          | 42   | 0.57                |      |  |
| Loughborough        | 29.61                              | 47              | NW    | 1                 | 0        | 29.47                                       | - .28                             | 45          | 43   | + 1                               | N     | 3                 | 0        | *              | 47          | 43   | 0.09                |      |  |
| IRELAND.            |                                    |                 |       |                   |          |   |                                   |             |      |                                   |       |                   |          |                |             |      |                     |      |  |
| Ardsrassau ...      | 29.79                              | 44              | ESE   | 1                 | 6        | 29.71                                       | - .18                             | 42          | 39   | 0                                 | NW    | 2                 | 6        | 1              | 46          | 36   | -                   |      |  |
| Malin Head ...      | 29.84                              | 45              | NNE   | 3                 | bc       | 29.81                                       | - .09                             | 46          | 43   | + 1                               | N     | 4                 | bcq/p    | 4              | 47          | 42   | 0.07                |      |  |
| Mullaghmore ..      | 29.83                              | 46              | NNE   | 6                 | bc       | 29.85                                       | - .07                             | 44          | 41   | 0                                 | NNE   | 5                 | cp       | 4              | 50          | 36   | 0.01                |      |  |
| Belmullet ...       | 29.87                              | 44              | NE    | 2                 | 0        | 29.90                                       | - .04                             | 45          | 41   | 0                                 | NNE   | 5                 | 0        | *              | 49          | 40   | 0.20                |      |  |
| Donaghadee ...      | 29.77                              | 46              | ESE   | 6                 | 0        | 29.72                                       | - .15                             | 46          | 42   | + 1                               | NE    | 6                 | 6        | 4              | 49          | 43   | -                   |      |  |
| SCOTLAND.           |                                    |                 |       |                   |          |   |                                   |             |      |                                   |       |                   |          |                |             |      |                     |      |  |
| Barrow-in-Furness   | 29.67                              | 44              | NNE   | 3                 | 0        | 29.58                                       | - .21                             | 42          | 40   | - 1                               | NW    | 4                 | bc       | *              | 47          | 41   | 0.16                |      |  |
| Liverpool (Bidston) | 29.65                              | 44              | NE    | 2                 | 0        | 29.58                                       | - .19                             | 44          | 41   | + 2                               | NW    | 4                 | 0        | 4              | 45          | 41   | 0.37                |      |  |
| Holyhead ...        | 29.68                              | 46              | NE    | 4                 | cp       | 29.66                                       | - .12                             | 45          | 42   | 0                                 | N     | 6                 | cq       | 5              | 49          | 43   | 0.50                |      |  |
| Parsonstown ...     | 29.79                              | 43              | NW    | 2                 | 6        | 29.85                                       | + .07                             | 34          | 32   | + 2                               | N     | 0                 | 6        | *              | 49          | 31   | -                   |      |  |
| Valencia ...        | 29.80                              | 44              | NNE   | 3                 | bc       | 29.89                                       | + .08                             | 49          | 44   | + 4                               | NW    | 3                 | 0        | 2              | 52          | 36   | -                   |      |  |
| Roche's Point...    | 29.75                              | 48              | NNE   | 4                 | 6        | 29.81                                       | + .04                             | 43          | 40   | - 2                               | N     | 5                 | 6        | 4              | 54          | 38   | -                   |      |  |
| Pembroke ...        | 29.63                              | 46              | NNE   | 3                 | bc       | 29.65                                       | - .07                             | 44          | 44   | - 4                               | N     | 6                 | bep      | 2              | 50          | 44   | 0.13                |      |  |
| Seilly ...          | 29.57                              | 53              | NNE   | 5                 | 0        | 29.67                                       | + .02                             | 48          | 46   | - 4                               | NW    | 7                 | cq       | 6              | 55          | 45   | 0.10                |      |  |
| Prawle Point ...    | 29.53                              | 50              | N     | 2                 | 0        | 29.57                                       | - .12                             | 46          | 44   | - 4                               | NW    | 4                 | bc       | 2              | 55          | 39   | -                   |      |  |
| Jersey ...          | 29.48                              | 49              | ESE   | 2                 | Tm       | 29.55                                       | - .12                             | 51          | 46   | - 3                               | NW    | 3                 | bc       | 3              | 57          | 48   | 0.27                |      |  |
| ENGLAND.            |                                    |                 |       |                   |          |   |                                   |             |      |                                   |       |                   |          |                |             |      |                     |      |  |
| Hurst Castle ...    | 29.53                              | 53              | ESE   | 2                 | om       | 29.50                                       | - .21                             | 45          | 44   | - 5                               | NW    | 2                 | em       | 1              | 55          | 44   | -                   |      |  |
| Dungeness ...       | 29.52                              | 54              | SSW   | 3                 | 0        | 29.37                                       | - .34                             | 47          | 47   | - 9                               | NW    | 2                 | 0        | 1              | 60          | 47   | 0.04                |      |  |
| London ...          | 29.56                              | 50              | ESE   | 3                 | og T     | 29.42                                       | - .30                             | 46          | 45   | - 4                               | W     | 2                 | OT       | *              | 54          | 45   | 0.24                |      |  |
| Oxford ...          | 29.55                              | 47              | NE    | 1                 | 0        | 29.46                                       | - .26                             | 43          | 43   | - 3                               | NW    | 3                 | od       | *              | 54          | 43   | 0.08                |      |  |
| Cambridge ...       | 29.55                              | 52              | N     | 0                 | 0        | 29.39                                       | - .32                             | 47          | 47   | - 1                               | N     | 2                 | T        | *              | 55          | 44   | 0.01                |      |  |
| Yarmouth ...        | 29.58                              | 52              | N     | 0                 | 0        | 29.34                                       | - .39                             | 49          | 48   | 0                                 | NW    | 2                 | em       | 3              | 58          | 47   | 0.01                |      |  |
| GERMANY.            |                                    |                 |       |                   |          |   |                                   |             |      |                                   |       |                   |          |                |             |      |                     |      |  |
| Cuxhaven ...        | 29.67                              | 45              | SE    | 5                 | 0        | 29.37                                       | - .52                             | 45          | 45   | - 1                               | SE    | 5                 | T        | *              | 47          | 43   | 0.08                |      |  |
| Berlin ...          | 29.80                              | 47              | ESE   | 3                 | 6        | 29.45                                       | - .52                             | 47          | 45   | + 6                               | SE    | 4                 | 0        | *              | 54          | ?    | -                   |      |  |
| Wiesbaden ...       | *                                  | *               | *     | *                 | *        | 29.26                                       | - .66                             | 51          | 50   | + 8                               | N     | 0                 | T        | *              | 57          | ?    | 0.16                |      |  |
| Munich ...          | 29.66                              | 48              | E     | 4                 | 6        | 29.44                                       | - .48                             | 46          | 45   | + 3                               | SW    | 4                 | T        | *              | 57          | 43   | -                   |      |  |
| NETHERLANDS.        |                                    |                 |       |                   |          |   |                                   |             |      |                                   |       |                   |          |                |             |      |                     |      |  |
| The Helder ...      | 29.54                              | 52              | ESE   | 1                 | 0        | 29.27                                       | - .47                             | 50          | 49   | + 1                               | E     | 1                 | 6        | 1              | 55          | ?    | -                   |      |  |
| Brussels ...        | *                                  | *               | *     | *                 | *        | 29.81                                       | - .48                             | 48          | 47   | - 3                               | NW    | 1                 | T        | *              | 55          | ?    | 0.04                |      |  |
| Cape Gris Nez...    | 29.55                              | 52              | ESE   | 1                 | m        | 29.35                                       | - .40                             | 51          | 49   | + 1                               | NW    | 7                 | 0        | 5              | 59          | 48   | 0.04                |      |  |
| Paris ...           | 29.47                              | 50              | ESE   | 1                 | T        | 29.42                                       | - .35                             | 48          | 47   | + 2                               | NW    | 7                 | 0        | *              | 58          | 48   | 0.24                |      |  |
| Brest ...           | 29.52                              | 52              | E     | 4                 | 0        | 29.63                                       | - .05                             | 50          | 48   | - 2                               | NW    | 7                 | 0        | 2              | 57          | 46   | -                   |      |  |
| FRANCE.             |                                    |                 |       |                   |          |   |                                   |             |      |                                   |       |                   |          |                |             |      |                     |      |  |
| Lorient ...         | 29.43                              | 50              | NE    | 5                 | 0        | 29.63                                       | - .00                             | 49          | 45   | - 2                               | NW    | 5                 | 6        | 2              | 52          | 48   | 0.28                |      |  |
| Rocheport ...       | 29.40                              | 56              | SE    | 7                 | T        | 29.63                                       | - .01                             | 53          | 51   | + 2                               | NW    | 8                 | 0        | 3              | 57          | 48   | 0.55                |      |  |
| Belfort ...         | 29.61                              | 50              | N     | 3                 | 0        | 29.47                                       | - .14                             | 56          | 52   | - 4                               | W     | 3                 | T        | *              | 60          | 38   | 0.59                |      |  |
| Lyons ...           | *                                  | *               | *     | *                 | *        | *   | *                                 | *           | *    | *                                 | *     | *                 | *        | *              | *           | *    | *                   |      |  |
| Nice ...            | 29.84                              | 54              | E     | 1                 | T        | 29.55                                       | - .36                             | 57          | 55   | + 1                               | W     | 1                 | 0        | 5              | 66          | 52   | 0.51                |      |  |
| SPAIN.              |                                    |                 |       |                   |          |   |                                   |             |      |                                   |       |                   |          |                |             |      |                     |      |  |
| Perpignan ...       | 29.45                              | 65              | S     | 5                 | 0        | 29.59                                       | - .19                             | 54          | 53   | - 1                               | SW    | 3                 | T        | *              | 66          | ?    | 0.08                |      |  |
| Biarritz ...        | 29.50                              | 63              | W     | 7                 | T        | 29.64                                       | - .05                             | 60          | 57   | - 3                               | NW    | 11                | T        | 4              | 64          | 55   | 0.79                |      |  |
| Corunna ...         | *                                  | *               | *     | *                 | *        | *   | *                                 | *           | *    | *                                 | *     | *                 | *        | *              | *           | *    | *                   |      |  |
| Lisbon ...          | 29.70                              | 65              | SSW   | 9                 | 0        | 29.95                                       | + .32                             | 61          | 60   | - 3                               | SW    | 4                 | bc       | ?              | 66          | 59   | 1.14                |      |  |

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on Monday, 10<sup>th</sup> OCTOBER.

1887.

## BAROMETER, WIND & SEA.

(Explanation of Map)

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

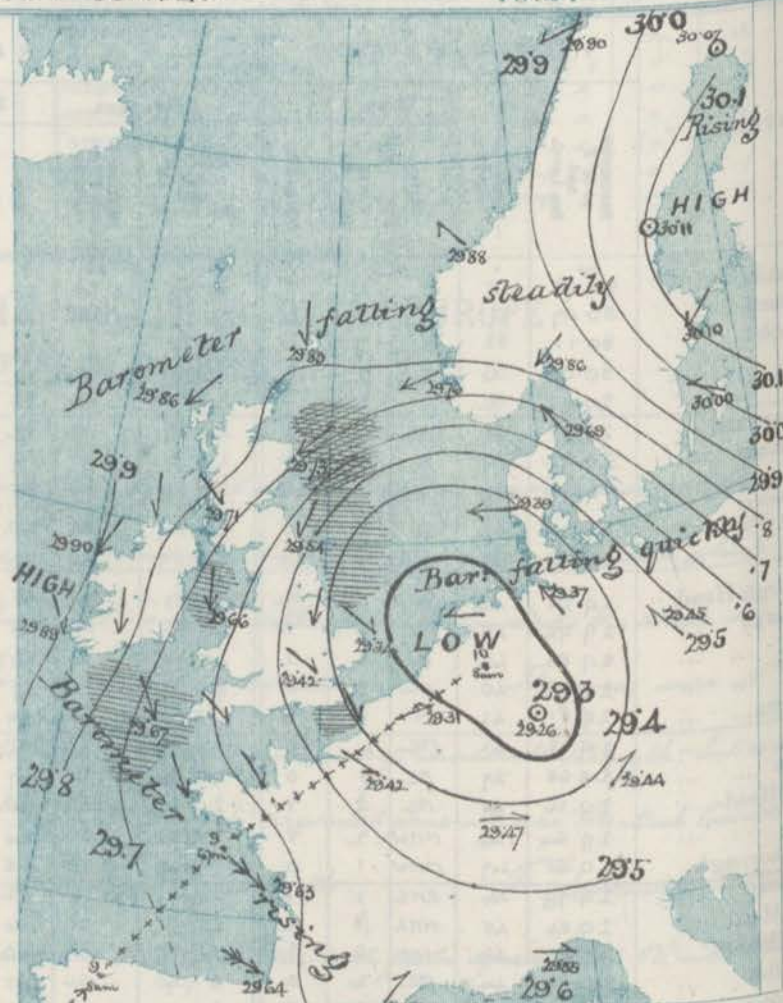
**Sea Disturbance** — where considerable is shown thus

■ = Rough. ■ = High.

## MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of October.  
During the 10 Years 1871—1880.

| STATIONS.     | MEAN READINGS. |
|---------------|----------------|
|               | in.            |
| Sumburgh Head | 29.686         |
| Stornoway     | 29.707         |
| Wick          | 29.718         |
| Nairn         | 29.738         |
| Aberdeen      | 29.748         |
| Leith         | 29.780         |
| Shields       | 29.821         |
| York          | 29.860         |
| Ardrossan     | 29.749         |
| Donaghadee    | 29.805         |
| Holyhead      | 29.830         |
| Liverpool     | 29.848         |
| Valencia      | 29.842         |
| Roche's Point | 29.843         |
| Pembroke      | 29.847         |
| Scilly        | 29.877         |
| Hurst Castle  | 29.894         |
| Dover         | 29.907         |
| LONDON        | 29.902         |
| Oxford        | 29.891         |
| Cambridge     | 29.894         |
| Yarmouth      | 29.880         |



## 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.

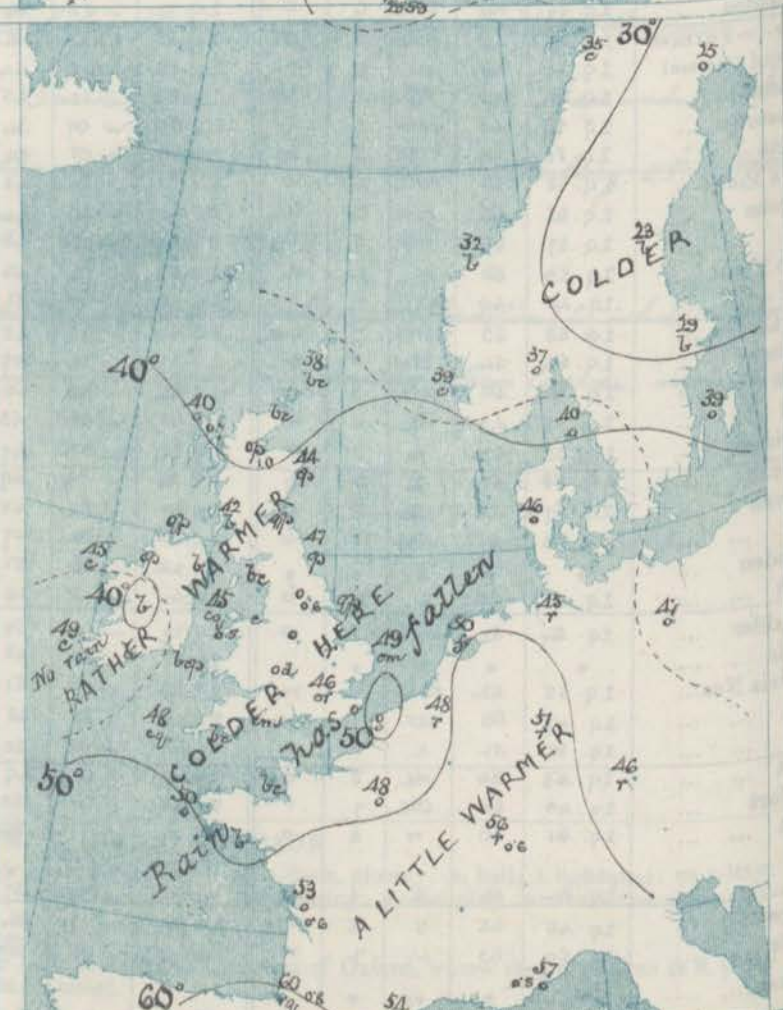
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of October.

| STATIONS.     | TEMPERATURE.  |               |                   |      | RAINFALL<br>(Inches) |
|---------------|---------------|---------------|-------------------|------|----------------------|
|               | Daily<br>Max. | Daily<br>Min. | At 8 a.m.<br>Dry. | Wet. |                      |
| Sumburgh Head | 49.5          | 41.6          | 45.9              | 44.4 | 4.33                 |
| Stornoway     | 50.2          | 38.8          | 45.1              | 43.9 | 4.94                 |
| Wick          | 51.8          | 40.0          | 46.0              | 44.3 | 2.94                 |
| Nairn         | 51.4          | 40.7          | 44.6              | 42.5 | 2.38                 |
| Aberdeen      | 52.1          | 41.3          | 45.5              | 43.5 | 2.88                 |
| Leith         | 55.3          | 41.9          | 46.7              | 45.1 | 1.94                 |
| Shields       | 53.2          | 43.1          | 47.3              | 45.5 | 2.46                 |
| York          | 55.2          | 40.9          | 46.0              | 44.7 | 2.64                 |
| Ardrossan     | 53.7          | 43.2          | 47.7              | 45.4 | 4.31                 |
| Donaghadee    | 53.2          | 43.2          | 47.8              | 46.8 | 3.35                 |
| Holyhead      | 54.9          | 47.5          | 50.4              | 48.6 | 4.53                 |
| Liverpool     | 54.0          | 44.9          | 48.0              | 46.2 | 3.62                 |
| Valencia      | 56.7          | 46.5          | 51.3              | 49.1 | 6.09                 |
| Roche's Point | 55.6          | 46.4          | 50.4              | 48.6 | 4.17                 |
| Pembroke      | 55.1          | 43.4          | 51.5              | 49.4 | 4.13                 |
| Scilly        | 56.8          | 50.7          | 53.9              | 52.0 | 3.84                 |
| Hurst Castle  | 57.7          | 46.8          | 51.5              | 50.5 | 3.24                 |
| Dover         | 56.2          | 47.8          | 51.5              | 49.4 | 3.28                 |
| LONDON        | 57.1          | 43.5          | 48.4              | 46.9 | 2.74                 |
| Oxford        | 55.7          | 43.9          | 47.0              | 45.8 | 2.72                 |
| Cambridge     | 57.0          | 41.6          | 46.6              | 45.7 | 2.36                 |
| Yarmouth      | 54.9          | 45.1          | 49.5              | 48.2 | 2.97                 |

NOTE — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 20 years 1866—85.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30 ins. and upwards, over the southern part of the Gulf of Bothnia; relatively high, 29.9 ins. and upwards to the westward and southward of our islands.  
Lowest, 29.5 ins. and less, in a depression lying over the Netherlands and the northwest of Germany.  
Barometer rising over France and on southwest coast, - also in Sweden, but falling elsewhere.

## TEMPERATURE

Highest, 61° at Lister, 60° at Rønne, 57° at Tice, 56° at Belfort, 54° at Perpignan, 53° at Rochefort and 51° at Jersey.  
Lowest, 23° at Helsingfors, 25° at Haparanda, 29° at Stockholm, 32° at Christiana, 34° at Paris and 35° at Bordeaux.

## WIND

Strong E. in the eastern shores of the North Sea and NE. in the north of our islands.  
Strong N. on our west coast; moderate NW. in the Channel; strong to a gale from NW. over the Bay of Biscay.  
Light W. in the northeast and east of France; moderate SE. in North Germany.

## WEATHER

Rainy over Belgium, Germany, the southeast of England and the east and south of France.  
Showery at several of our western and northern stations; fair over the greater part of Scandinavia.  
[Rain fell generally yesterday, the largest amounts being 1.0 in. at Nairn, 0.8 in. at Rønne, 0.7 in. at Helsingfors and 0.6 in. at York, Rochefort and Belfort.]

## SEA

High at Aberdeen, rough at S. and S.W. and rather rough at Shields, Holyhead and C. Gri. Neg., but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression over the Netherlands seems likely to change its course and move northwards over the North Sea, but its rate of progress will probably slacken somewhat. Strong N. winds or gales, with squally, showery weather are therefore probable in the more northern parts of the Kingdom, but in the south a gradual improvement in the weather is anticipated.

## FORECASTS

for the 24 hours ending at NOON on 11<sup>th</sup> October 1887.

### DISTRICTS.

### FORECASTS.

|   |                  |  |
|---|------------------|--|
| 0 | SCOTLAND NORTH   | NE. winds, freshening; fair to showery.                                |
| 1 | SCOTLAND EAST    | NE. to N. winds, strong, perhaps a gale; squally, showery.             |
| 2 | ENGLAND N.E.     | -----D-----D-----D-----  |
| 3 | ENGLAND EAST     | -----D-----D-----D-----  |
| 4 | MIDLAND COUNTIES | Same as N° 5.  |
| 5 | ENGLAND SOUTH    | NW. winds, moderate or fresh, weather improving, but showery at first. |

### DISTRICTS.

### FORECASTS.

|          |               |   |
|----------|---------------|---|
| 6        | SCOTLAND WEST | N. winds, decreasing in force; fair to showery.   |
| 7        | ENGLAND N.W.  | N. and NW. strong winds or gales; squally, some showers.                                |
| 8        | ENGLAND S.W.  | -----D-----D-----D-----   |
| 9        | IRELAND NORTH | Same as N° 1 to 3.  |
| 10       | IRELAND SOUTH | N. and NW. winds; fair generally, but local showers.                                    |
| WARNINGS |               | The NORTH COAST was hoisted last evening in districts 2, 6 to 10, and parts of 1 and 3. |

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.  | Dry. | Wet. | Wind.  | Wen. | Sea. |               | Bar.  | Dry. | Wet. | Wind. | Wen. | Sea. |
|-----------------|-------|------|------|--------|------|------|---------------|-------|------|------|-------|------|------|
| Skudesnaes ...  | 29.95 | 50   | 38   | ESC. 4 | bc   | 3    | Holyhead ...  | 29.71 | 46   | 45   | NE 4  | c    | 4    |
| Sumburgh Head   |       |      |      |        |      |      | Valencia ...  |       |      |      |       |      |      |
| Storröway ...   | 29.93 | 41   | 40   | E 4    | 0    | 4    | Scilly ...    |       |      |      |       |      |      |
| Aberdeen ...    |       |      |      |        |      |      | Dungeness ... | 29.63 | 51   | 53   | SSW 3 | c    | 1    |
| Shields ...     |       |      |      |        |      |      | London ...    |       |      |      |       |      |      |
| Ardrossan ...   |       |      |      |        |      |      | Yarmouth ...  |       |      |      |       |      |      |
| Malin Head ...  | 29.85 | 45   | 42   | NE 3   | bc   | 3    | Jersey ...    | 29.53 | 52   | 48   | ENE 2 | 0    | 2    |
| Mullaghmore ... |       |      |      |        |      |      | Rochefort ... | 29.60 | 55   | 52   | SE 7  | 7    | 2    |
| Belmullet ...   | 29.89 | 49   | 44   | NE 4   | bc   | *    |               |       |      |      |       |      |      |

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

The reports for yesterday morning showed that pressure was highest (29.9 ins and more) off the north of Scotland, and west of Norway; and also over the Mediterranean, the two regions being joined by a "bel" which stretched from the Adriatic, across Central Europe to Scandinavia.

To the north-eastward of this "bel" (i.e. over Northern Russia) lay a depression in which readings were rather below 29.5 ins, and which was passing away in an easterly direction, while to the south-westward (over the Bay of Biscay) there was another and apparently deeper system, which was advancing steadily in a northeasterly direction towards France.

Thus while S. and E. winds prevailed over France and the south of our Islands, N. to W. winds were felt over the Baltic and Russia, and the weather was cloudy and unsettled generally, with rain in several places and lightning in the far south.

Temperatures at 8 a.m. varied from 70° and more over the southern parts of the Mediterranean, and from rather above 50° in the west of France to rather below 32° F. over Northern Europe.

The highest individual values were 74° at Algiers, 73° at Malta, 71° at Brindisi and 66° at Tunis; the lowest 26° at Haparanda, 27° at Archangel and Uleaborg, 28° at Krasnoyarsk and Bodo, and 31° at Hernösand, Stockholm, Hangö, and St. Petersburg.

Later in the day the northern depression disappeared, while that in the south advanced over France, in which country and over the south of England rainy weather became general, while freshening NE. to N. breezes set in over the British Isles, and W. gales in the southwest of France.

### SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 2<sup>nd</sup> to the 8<sup>th</sup> OCTOBER 1887.

The weather during the greater part of last week was dull and cold, but generally dry. On Thursday however, rain set in over the North of Scotland, and by the close of the period this had extended to all but our extreme southern stations.

Between the 2<sup>nd</sup> and the 6<sup>th</sup> an anticyclone lay over the west of our Islands, while a series of large and deep depressions advanced to the north of Scandinavia, and travelled south-eastward to Russia.

Thus while moderate N. winds (NW in the north but NE in the south) prevailed over the United Kingdom, with fair but cloudy weather, W. to NW gales, and rain or sleet were reported in Norway and Sweden.

On the night of the 6<sup>th</sup> however, a small shallow depression was formed over the West of Scotland, and during the remainder of the week, this disturbance travelled slowly in a south south-easterly direction, its centre reaching our Midland Counties by the evening of the 8<sup>th</sup>.

front of the system the weather remained practically unchanged but in its rear steady rain set in, with a decided fall of temperature. Over the north of England the rainfall experienced on the 8<sup>th</sup> was continuous and heavy.

Taking the week as a whole the weather has not been unusually cold for the season, but at the close of the period, temperatures in the north were very low, the maximum readings being below 50° in most places, with ground frost at night.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for Tuesday 11<sup>th</sup> October

1887.

Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

|                            |                                    | + YESTERDAY EVENING. |       |                   |          |                                  | 8 A.M. TO DAY.                    |             |      |                                   |       |                   |          |                |             |      | PAST 24 HOURS.      |  |  |
|----------------------------|------------------------------------|----------------------|-------|-------------------|----------|----------------------------------|-----------------------------------|-------------|------|-----------------------------------|-------|-------------------|----------|----------------|-------------|------|---------------------|--|--|
| STATIONS.                  | 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. |  |  |
|                            |                                    |                      | 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 ..               | 30.09                              | 23                   | Z     | 0                 | 0        | 30.11                            | + .04                             | 41          | ?    | + 16                              | S     | 2                 | 0        | *              | ?           | 21   | Ins.                |  |  |
| Hernösand ...              | 30.05                              | 35                   | Z     | 0                 | 5        | 29.92                            | - .19                             | 38          | 35   | + 15                              | SE    | 6                 | 0        | *              | 43          | 19   | 0.04                |  |  |
| Stockholm ...              | 29.89                              | 41                   | ESE   | 4                 | 0        | 29.61                            | - .49                             | 37          | 35   | + 8                               | ESE   | 9                 | 7        | *              | 45          | 25   | -                   |  |  |
| Wisby ...                  | 29.80                              | 42                   | E     | 6                 | 0        | 29.36                            | - .64                             | 39          | 37   | 0                                 | ESE   | 6                 | 7        | *              | 48          | 30   | 0.16                |  |  |
| Bodö ...                   | 29.88                              | 32                   | ESE   | 2                 | 6        | 29.88                            | - .02                             | 30          | 29   | - 5                               | E     | 2                 | 6        | 1              | 37          | 28   | -                   |  |  |
| Christiansund...           | 29.73                              | 33                   | ESE   | 2                 | 6        | 29.59                            | - .29                             | 38          | 34   | + 6                               | ESE   | 3                 | 6        | 3              | 39          | 30   | -                   |  |  |
| Skudesnaes ...             | 29.54                              | 39                   | NNE   | 4                 | 7        | 29.42                            | - .34                             | 38          | 36   | - 1                               | ESE   | 4                 | 7        | 4              | 39          | 36   | -                   |  |  |
| Christiania Fjord (Færder) | 29.61                              | 41                   | NE    | 7                 | 0        | 29.37                            | - .49                             | 38          | 37   | + 1                               | NNE   | 7                 | 7        | 3              | 41          | 37   | 0.20                |  |  |
| Skagen (The Scaw)          | 29.36                              | 42                   | SE    | 8                 | 0        | 29.15                            | - .54                             | 40          | 39   | 0                                 | ESE   | 8                 | 0        | 7              | 45          | 39   | 0.71                |  |  |
| Faßö ...                   | 29.15                              | 46                   | E     | 4                 | 7        | 29.01                            | - .38                             | 47          | 46   | + 1                               | SE    | 4                 | 6        | *              | 48          | 45   | 0.32                |  |  |
| BRITISH ISLANDS.           |                                    |                      |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |                |             |      |                     |  |  |
| Sumburgh Head              | 29.74                              | 36                   | N     | 1                 | 6        | 29.61                            | - .22                             | 37          | 36   | - 1                               | N     | 3                 | 7        | 3              | 45          | 33   | 0.04                |  |  |
| Stornoway ...              | 29.88                              | 37                   | NE    | 5                 | 0        | 29.80                            | - .06                             | 36          | 35   | - 4                               | N     | 6                 | beap     | 5              | 46          | 33   | 0.14                |  |  |
| Wick ...                   | 29.76                              | 39                   | N     | 3                 | 6        | 29.66                            | - .12                             | 38          | 37   | - 5                               | N     | 3                 | cph      | 1              | 43          | 32   | 0.18                |  |  |
| Nairn ...                  | 29.80                              | 41                   | WNW   | 2                 | 6        | 29.70                            | - .11                             | 38          | 36   | + 1                               | W     | 4                 | c        | 3              | 47          | 35   | 0.13                |  |  |
| Aberdeen...                | 29.71                              | 40                   | N.    | 5                 | 6        | 29.61                            | - .12                             | 38          | 35   | - 6                               | WNW   | 5                 | sp       | 5              | 48          | 34   | 0.14                |  |  |
| Leith ...                  | 29.74                              | 41                   | NE    | 2                 | 6        | 29.67                            | - .01                             | 40          | 36   | - 1                               | NW    | 2                 | 6        | *              | 49          | 36   | 0.17                |  |  |
| Shields ...                | 29.63                              | 46                   | NNE   | 6                 | 6        | 29.60                            | + .06                             | 37          | 35   | - 10                              | NW    | 4                 | 6        | 5              | 48          | 34   | 0.21                |  |  |
| Spurn Head ...             | 29.49                              | 47                   | WNW   | 8                 | 6        | 29.54                            | + .17                             | 40          | 37   | - 10                              | NW    | 8                 | bg       | 7              | 50          | 37   | 0.05                |  |  |
| York ...                   | 29.61                              | 44                   | WNW   | 4                 | 6        | 29.63                            | + .15                             | 37          | 34   | - 7                               | WNW   | 4                 | 6        | *              | 49          | 34   | 0.02                |  |  |
| Loughborough               | 29.61                              | 43                   | WNW   | 3                 | 6        | 29.70                            | + .23                             | 36          | 35   | - 9                               | W     | 3                 | bw       | *              | 49          | 33   | 0.03                |  |  |
| Ardrossan ...              | 29.77                              | 43                   | N     | 1                 | 6        | 29.74                            | + .03                             | 39          | 37   | - 3                               | WNW   | 3                 | 6        | 2              | 49          | 37   | -                   |  |  |
| Malin Head ...             | 29.84                              | 43                   | NNE   | 3                 | 6        | 29.73                            | - .08                             | 41          | 38   | - 5                               | N     | 4                 | bgph     | 3              | 46          | 38   | 0.20                |  |  |
| Mullaghmore ...            | 29.87                              | 45                   | NW    | 5                 | 6        | 29.89                            | + .04                             | 43          | 40   | - 1                               | WNW   | 5                 | cgp      | 4              | 49          | 38   | 0.08                |  |  |
| Belmullet ...              | 29.94                              | 44                   | WNW   | 4                 | 6        | 29.96                            | + .06                             | 44          | 41   | - 1                               | N     | 4                 | c        | *              | 48          | 40   | 0.25                |  |  |
| Donaghadee ...             | 29.79                              | 47                   | NE    | 5                 | 0        | 29.79                            | + .07                             | 39          | 38   | - 7                               | NE    | 5                 | 0        | 3              | 49          | 38   | 0.12                |  |  |
| GERMANY.                   |                                    |                      |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |                |             |      |                     |  |  |
| Barrow-in-Furness          | 29.69                              | 44                   | NNE   | 3                 | 6        | 29.71                            | + .13                             | 38          | 35   | - 4                               | NW    | 4                 | 6        | *              | 49          | 37   | -                   |  |  |
| Liverpool (Bidston)        | 29.69                              | 44                   | NNE   | 2                 | 0        | 29.73                            | + .15                             | 41          | 37   | - 3                               | NNE   | 2                 | 6        | 4              | 48          | 39   | 0.17                |  |  |
| Holyhead ...               | 29.74                              | 45                   | NE    | 5                 | cq       | 29.77                            | + .11                             | 41          | 39   | - 4                               | NNE   | 4                 | cq       | 5              | 49          | 40   | 0.40                |  |  |
| Parsonstown ...            | 29.89                              | 42                   | NW    | 1                 | 6        | 29.93                            | + .08                             | 38          | 36   | + 4                               | WNW   | 1                 | c        | *              | 50          | 31   | -                   |  |  |
| Valencia ...               | 29.96                              | 48                   | WNW   | 3                 | 6        | 29.98                            | + .09                             | 44          | 42   | - 5                               | N     | 2                 | 6        | 3              | 54          | 41   | 0.12                |  |  |
| Roche's Point...           | 29.79                              | 48                   | WNW   | 4                 | 6        | 29.91                            | + .10                             | 41          | 38   | - 2                               | WNW   | 3                 | 6        | 3              | 52          | 39   | -                   |  |  |
| Pembroke ...               | 29.76                              | 49                   | NW    | 5                 | 6        | 29.81                            | + .16                             | 45          | 44   | + 1                               | N     | 4                 | beap     | 3              | 50          | 40   | 0.13                |  |  |
| Scilly ...                 | 29.84                              | 50                   | NW    | 6                 | 6        | 29.86                            | + .19                             | 47          | 44   | - 1                               | WNW   | 5                 | cq       | 5              | 51          | 44   | 0.02                |  |  |
| Prawle Point ...           | 29.75                              | 45                   | WNW   | 5                 | 6        | 29.79                            | + .22                             | 43          | 41   | - 3                               | WNW   | 3                 | 6        | 3              | 56          | 36   | -                   |  |  |
| Jersey ...                 | 29.71                              | 49                   | NW    | 4                 | cq       | 29.79                            | + .24                             | 48          | 43   | - 3                               | WNW   | 4                 | cq       | 4              | 53          | 43   | 0.15                |  |  |
| FRANCE & NETHERLANDS.      |                                    |                      |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |                |             |      |                     |  |  |
| Hurst Castle ...           | 29.65                              | 47                   | WNW   | 4                 | 6        | 29.77                            | + .27                             | 42          | 40   | - 3                               | WNW   | 3                 | 6        | 1              | 53          | 35   | 0.02                |  |  |
| Dungeness ...              | 29.45                              | 45                   | WNW   | 2                 | 7        | 29.68                            | + .31                             | 39          | 37   | - 8                               | NW    | 3                 | 6        | 2              | 53          | 38   | 0.14                |  |  |
| London ...                 | 29.56                              | 46                   | WNW   | 4                 | 6        | 29.70                            | + .28                             | 35          | 34   | - 11                              | W     | 2                 | 6        | *              | 49          | 33   | 0.24                |  |  |
| Oxford ...                 | 29.67                              | 44                   | N     | 3                 | 0        | 29.73                            | + .27                             | 39          | 37   | - 4                               | W     | 2                 | 6        | *              | 47          | 33   | 0.26                |  |  |
| Cambridge ...              | 29.36                              | 45                   | N     | 3                 | 0        | 29.66                            | + .27                             | 38          | 36   | - 9                               | N     | 2                 | 6        | *              | 50          | 33   | 0.28                |  |  |
| Yarmouth ...               | 29.38                              | 47                   | WNW   | 6                 | 7        | 29.53                            | + .19                             | 39          | 37   | - 10                              | WNW   | 6                 | beap     | 6              | 53          | 36   | 0.12                |  |  |
| NETHERLANDS.               |                                    |                      |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |                |             |      |                     |  |  |
| Cuxhaven ...               | 29.18                              | 48                   | S     | 1                 | 7        | 29.15                            | - .22                             | 46          | 46   | + 1                               | SW    | 5                 | 6        | *              | 48          | 43   | 0.26                |  |  |
| Berlin ...                 | 29.26                              | 52                   | SW    | 2                 | 7        | 29.33                            | - .12                             | 48          | 45   | + 1                               | SW    | 3                 | c        | *              | 54          | 45   | 0.16                |  |  |
| Wiesbaden ...              | *                                  | *                    | *     | *                 | *        | 29.59                            | + .33                             | 43          | ?    | - 8                               | SW    | 4                 | 6        | *              | 59          | 45   | 0.12                |  |  |
| Munich ...                 | 29.47                              | 50                   | W     | 3                 | 7        | 29.67                            | + .23                             | 43          | 40   | - 3                               | W     | 6                 | 6        | *              | 61          | 43   | 0.35                |  |  |
| GERMANY.                   |                                    |                      |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |                |             |      |                     |  |  |
| The Helder ...             | 29.22                              | 51                   | WSW   | 1                 | 7        | 29.28                            | + .01                             | 46          | 45   | - 4                               | WNW   | 11                | 7        | 5              | 54          | 46   | 0.28                |  |  |
| Brussels ...               | *                                  | *                    | *     | *                 | *        | ?                                | ?                                 | 43          | 41   | - 5                               | WSW   | 4                 | 6        | *              | 53          | 42   | 0.12                |  |  |
| Cape Gris Nez...           | 29.43                              | 48                   | NW    | 9                 | 7        | 29.27                            | - .08                             | 44          | 41   | + 7                               | WNW   | 7                 | 6        | 5              | 54          | 43   | 0.12                |  |  |
| Paris ...                  | 29.58                              | 49                   | W     | 4                 | 0        | 29.78                            | + .36                             | 42          | 40   | - 6                               | W     | 3                 | 0        | *              | 55          | 41   | 0.08                |  |  |
| Brest ...                  | 29.84                              | 50                   | WNW   | 8                 | 0        | 29.91                            | + .28                             | 48          | 45   | - 2                               | NW    | 5                 | 0        | 5              | 57          | 41   | 0.24                |  |  |
| Lorient ...                | 29.84                              | 50                   | NW    | 5                 | 6        | 29.86                            | + .22                             | 48          | 44   | - 1                               | NW    | 4                 | 6        | 3              | 54          | 46   | 0.04                |  |  |
| Rockfort ...               | 29.87                              | 53                   | WNW   | 7                 | 7        | 29.98                            | + .35                             | 50          | 46   | - 3                               | SW    | 1                 | 6        | 2              | 57          | 45   | 0.04                |  |  |
| Belfort ...                | 29.60                              | 51                   | W     | 1                 | 7        | 29.77                            | + .30                             | 43          | 42   | - 13                              | W     | 4                 | 0        | *              | 57          | 37   | 0.48                |  |  |
| Lyons ...                  | 29.72                              | 50                   | WNW   | 1                 | 7        | 29.88                            | + .01                             | 42          | 38   | - 3                               | WSW   | 1                 | 6        | *              | 63          | 41   | 0.08                |  |  |
| Nice ...                   | 29.47                              | 57                   | WSW   | 1                 | 6        | 29.56                            | + .01                             | 54          | 42   | - 3                               | W     | 7                 | 6        | 3              | 63          | 50   | 0.12                |  |  |
| Perpignan ...              | 29.80                              | 59                   | NW    | 5                 | 6        | 29.94                            | + .35                             | 52          | 45   | - 2                               | NW    | 5                 | 6        | *              | 67          | 51   | 0.34                |  |  |
| Barritz ...                | *                                  | *                    | *     | *                 | *        | *                                | *                                 | *           | *    | *                                 | *     | *                 | *        | *              | *           | *    | *                   |  |  |
| Corunna ...                | *                                  | *                    | *     | *                 | *        | *                                | *                                 | *           | *    | *                                 | *     | *                 | *        | *              | *           | *    | *                   |  |  |
| Lisbon ...                 | 30.05                              | 63                   | SW    | 4                 | 6        | 30.04                            | + .09                             | 60          | 59   | - 1                               | SW    | 3                 | 6        | 2              | 68          | 59   | -                   |  |  |

For Explanation of Columns, see p. 4.



# WEATHER

# CHARTS

for 8 a.m. on

Tuesday, 11<sup>th</sup> October.

1887.

## BAROMETER, WIND & SEA.

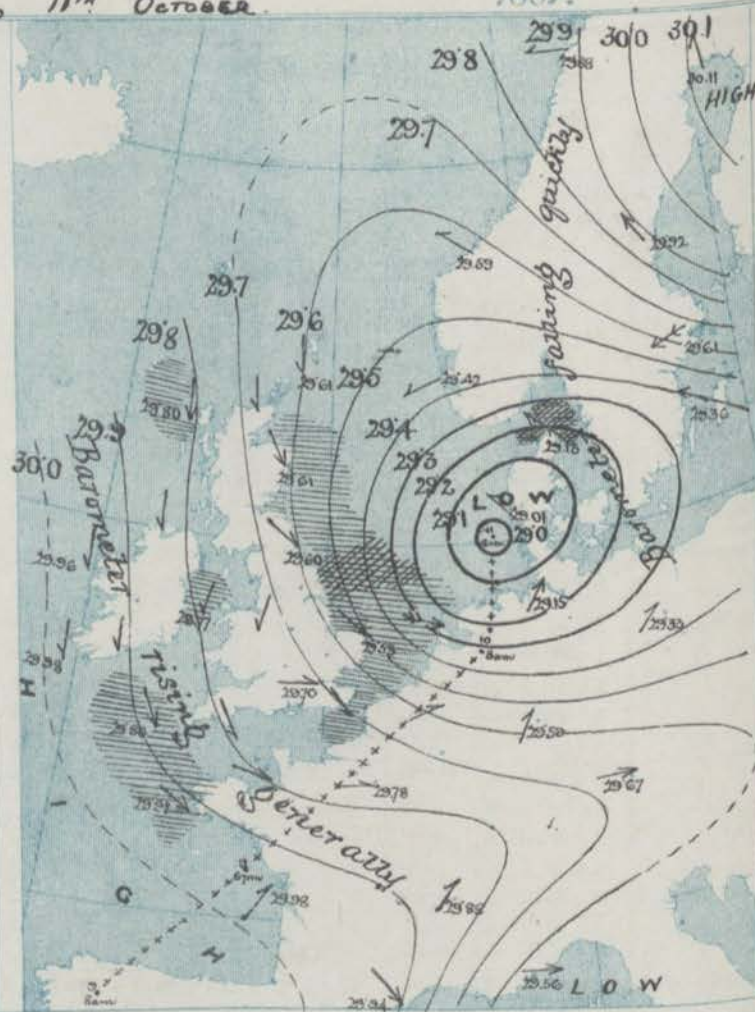
(Explanation of Map)

- 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 10 Years 1871—1880.

| STATIONS.     | MEAN READINGS. |
|---------------|----------------|
|               | in.            |
| Sumburgh Head | 29.685         |
| Stornoway     | 29.707         |
| Wick          | 29.718         |
| Nairn         | 29.738         |
| Aberdeen      | 29.748         |
| Leith         | 29.780         |
| Shields       | 29.821         |
| York          | 29.860         |
| Ardrossan     | 29.749         |
| Donaghadee    | 29.805         |
| Holyhead      | 29.830         |
| Liverpool     | 29.848         |
| Valencia      | 29.842         |
| Roche's Point | 29.843         |
| Pembroke      | 29.847         |
| Scilly        | 29.877         |
| Hurst Castle  | 29.894         |
| Dover         | 29.907         |
| LONDON        | 29.902         |
| Oxford        | 29.891         |
| Cambridge     | 29.894         |
| Yarmouth      | 29.889         |



## TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

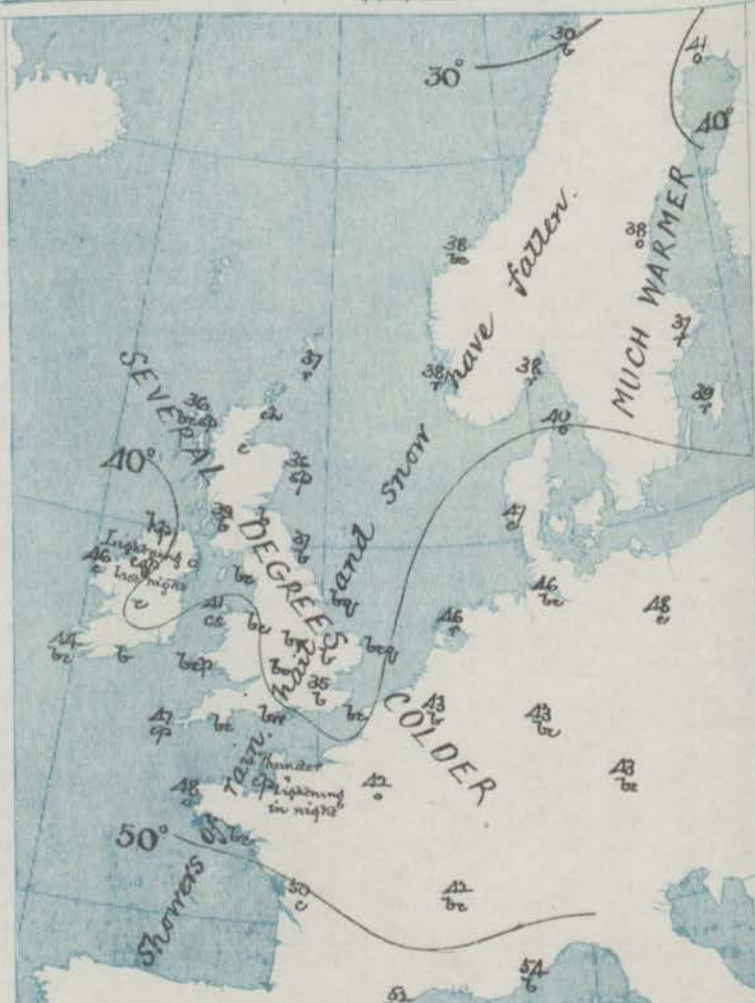
- Temperature** — Isotherms are drawn for each 10° Changes since previous morning are stated in words.
- Weather** — is shown by Letters of the Beaufort Scale.
- Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more,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

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of October.

| STATIONS.     | TEMPERATURE.  |               |            |            | RAINFALL.<br>(inches) |
|---------------|---------------|---------------|------------|------------|-----------------------|
|               | Daily<br>Max. | Daily<br>Min. | A t 8 a.m. | A t 8 a.m. |                       |
|               |               |               | Dry.       | Wet.       |                       |
| Sumburgh Head | 49.5          | 41.6          | 45.9       | 44.4       | 4.38                  |
| Stornoway     | 50.2          | 38.8          | 45.1       | 43.9       | 4.94                  |
| Wick          | 51.8          | 40.0          | 46.0       | 44.3       | 2.94                  |
| Nairn         | 51.4          | 40.7          | 44.6       | 42.5       | 2.88                  |
| Aberdeen      | 52.1          | 41.3          | 45.5       | 43.5       | 2.88                  |
| Leith         | 55.3          | 41.9          | 46.7       | 45.1       | 1.94                  |
| Shields       | 53.2          | 43.1          | 47.3       | 45.5       | 2.46                  |
| York          | 55.2          | 40.9          | 46.0       | 44.7       | 2.64                  |
| Ardrossan     | 53.7          | 43.2          | 47.7       | 45.4       | 4.31                  |
| Donaghadee    | 53.2          | 43.2          | 47.8       | 46.8       | 3.35                  |
| Holyhead      | 54.9          | 47.5          | 50.4       | 48.6       | 4.53                  |
| Liverpool     | 54.0          | 44.9          | 48.0       | 46.2       | 3.62                  |
| Valencia      | 56.7          | 46.5          | 51.3       | 49.1       | 6.09                  |
| Roche's Point | 55.6          | 46.4          | 50.4       | 48.6       | 4.17                  |
| Pembroke      | 55.1          | 45.4          | 51.5       | 49.4       | 4.13                  |
| Scilly        | 56.8          | 50.7          | 53.0       | 52.0       | 3.84                  |
| Hurst Castle  | 57.7          | 46.8          | 51.5       | 50.5       | 3.24                  |
| Dover         | 56.2          | 47.8          | 51.5       | 49.4       | 3.28                  |
| LONDON        | 57.1          | 48.5          | 48.4       | 46.9       | 2.74                  |
| Oxford        | 55.7          | 42.9          | 47.0       | 45.8       | 2.72                  |
| Cambridge     | 57.0          | 41.6          | 46.6       | 45.7       | 2.36                  |
| Yarmouth      | 54.9          | 45.1          | 49.5       | 48.2       | 2.97                  |

Notes — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 10 years 1866—85.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest 30.1 ins. at Haparanda, 30.0 ins. and more off the west of Ireland, and over the Spanish Peninsula.  
Lowest 29.0 ins. in a depression near Fano, and below 29.5 ins. on all the eastern shores of the North Sea.  
Gradients. Steep for N.E. to N.W. winds over the North Sea, moderate for N.E. to W. winds over the British Isles and France; Barometer falling east and north, rising west and south.

## TEMPERATURE

Highest 60° at Lisbon, 54° at Nice, 50° at Roche fort, 46° in Holland.  
Lowest 30° at Ordi, 35° in London, 36° at Hovnor, Aberdeen and Loughborough, 37° at Stockholm, Shields and York.  
A sharp frost occurred on the ground over our inland countries during the night.

## WIND

Blows a fresh gale from N.E. at Stockholm, E. at the Leaw and N.W. at Spurn Head.  
And a heavy gale from W.N.W. at the Helder.  
Over our Islands it is N.E. to N.W. moderate in the west, strong at some northern and eastern stations.  
In France it is more W. and in Germany S.W.

## WEATHER

Very unsettled in the north and east, finer in the west and south, but not settled anywhere. Showers  
of cold rain, hail, sleet and snow have fallen in the north and east and continue at many stations.

## SEA

Very rough over the German Ocean, rather so at our northwest stations as in the Irish Sea, slight elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression in the east appears to be stationary, but is still growing deeper. Rough  
cold weather is still probable in that region, and cold weather elsewhere, with some showers.

The North Cone is still up on our northeast and east coasts.

## FORECASTS

for the 24 hours ending at NOON on 12<sup>th</sup> October 1887.

### DISTRICTS.

### FORECASTS.

|   |                  |   |
|---|------------------|---|
| 0 | SCOTLAND NORTH   | N <sup>th</sup> winds, moderate to fresh; cold showers.   |
| 1 | SCOTLAND EAST    | NW <sup>th</sup> breezes, strong; squally, cold showers.  |
| 2 | ENGLAND N.E.     | NW <sup>th</sup> breezes, strong, a gale in places; squally, cold showers, with bright intervals. |
| 3 | ENGLAND EAST     | .....D.....D.....D.....   |
| 4 | MIDLAND COUNTIES | Same as N <sup>o</sup> 3.   |
| 5 | ENGLAND SOUTH    | NW <sup>th</sup> breezes, moderate and fresh; some cold showers, clear at night and frosty.       |

### DISTRICTS.

### FORECASTS.

|    |               |   |
|----|---------------|---|
| 6  | SCOTLAND WEST | N <sup>th</sup> breezes, fresh; gusty, some cold showers. |
| 7  | ENGLAND N.W.  | .....D.....D.....D.....                                   |
| 8  | ENGLAND S.W.  | Same as N <sup>o</sup> 1.                                 |
| 9  | IRELAND NORTH | Same as N <sup>o</sup> 6 and 7.                           |
| 10 | IRELAND SOUTH | Same as N <sup>o</sup> 6 and 7.                           |

### WARNINGS

The NORTH CONE is still up in district 2 and parts of 1 and 3.

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.  | Dry. | Wet. | Wind. | Wes.  | Sea. |               | Bar.  | Dry. | Wet. | Wind. | Wes. | Sea. |
|-----------------|-------|------|------|-------|-------|------|---------------|-------|------|------|-------|------|------|
| Skudesnaes ...  | 29.67 | 36   | 35   | NNE 4 | S     | 3    | Holyhead ...  | 29.69 | 48   | 43   | N 5   | bcy  | 5    |
| Sumburgh Head   | 29.78 | 44   | 40   | N 2   | bc    | 2    | Valencia ...  | 29.93 | 54   | 47   | NNE 3 | bcv  | 3    |
| Stornoway ...   | 29.87 | 45   | 43   | NE 5  | c     | 4    | Scilly ...    | 29.79 | 51   | 47   | NNE 7 | c    | 6    |
| Aberdeen ...    | 29.72 | 47   | 43   | N 6   | bc hp | 7    | Dungeness ... | 29.89 | 52   | 49   | NW 3  | c    | 2    |
| Shields ...     | 29.59 | 47   | 43   | NNE 6 | cp    | 6    | London ...    | 29.45 | 49   | 47   | NW 4  | c    | 5    |
| Ardrossan ...   | 29.75 | 48   | 44   | ? 2   | bc    | 1    | Yarmouth ...  | 29.80 | 51   | 48   | NNE 5 | cy   | 4    |
| Malin Head ...  | 29.82 | 41   | 41   | N 4   | 0     | 3    | Jersey ...    | 29.63 | 50   | 46   | NW 5  | bc   | 3    |
| Mullaghmore ... | 29.85 | 49   | 43   | NNE 6 | bcv   | 4    | Rocheport ... | 29.79 | 53   | 50   | NW 8  | c    | 3    |
| Belmullet ...   | 29.93 | 46   | 43   | NNE 4 | bcv   | *    |               |       |      |      |       |      |      |

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

The reports for yesterday morning showed that the large depression which lay on Sunday over the North of Spain had grown deeper and travelled quickly in a northeast direction to the northwest of Germany. The lowest reading of the barometer 29.23 ins. was reported at Munster, whence pressure increased to 29.9 ins. and upwards, over the west of the British Isles and the South of Russia, and to 30.1 ins. and upwards over the Gulf of Bothnia, A cyclonic circulation of wind was reported over the whole of Europe. Moderate SE & breezes prevailed over the more central countries, moderate to strong E winds in Scandinavia, strong N winds over the British Isles, NW gales over the Bay of Biscay and moderate S.W. breezes in the east of France. Squally, unsettled weather prevailed generally with rain over France, Germany, the Netherlands, and the southeast of England, and showers in most other localities. Temperature had risen somewhat over Italy, France and Belgium, as well as in the north and west of our Islands, but fallen elsewhere; readings ranged from 70° and upwards over Algeria and southern Italy, to 32° and less over the North of Russia, and the greater part of Scandinavia. The highest individual readings were 83° at Algiers, 78° at La Galle, 76° at Sfax and Malta, 74° at Oran and 73° at Palermo, the lowest were 23° at Archangel and Hernoisand, 24° at Ulenborg, 25° at Haparanda, 26° at Helsingfors, and 28° at Kuopio and St. Petersburg. In the course of the day the depression continued to move northeastward but its rate of progress slackened considerably. On the west coasts of our Islands and France, the wind showed some tendency to subside, but over the North Sea it increased from NW and N. Snow showers were reported in the North of Scotland, and hail or sleet fell in the north generally.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for Wednesday 12<sup>th</sup> OCTOBER 1887.  
 Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

|                            |                                    | + YESTERDAY EVENING. |       |                   |          |                                  | 8 A.M. TO DAY.                    |             |      |                                   |       |                   |                |             |      |                     | PAST 24 HOURS. |  |  |
|----------------------------|------------------------------------|----------------------|-------|-------------------|----------|----------------------------------|-----------------------------------|-------------|------|-----------------------------------|-------|-------------------|----------------|-------------|------|---------------------|----------------|--|--|
| STATIONS.                  | Barometer at 32° F. and Sea Level. | Temp. in Shade.      | WIND. |                   | Weather. | BAROMETER.                       |                                   | SHADE TEMP. |      |                                   | WIND. |                   | Sea. (0 to 9.) | SHADE TEMP. |      | Amount of Rainfall. |                |  |  |
|                            |                                    |                      | Dir.  | Force. (0 to 12.) |          | Reading at 32° F. and Sea Level. | Difference from 8 a.m. yesterday. | Dry.        | Wet. | Difference from 8 a.m. yesterday. | Dir.  | Force. (0 to 12.) |                | Weather.    | Max. |                     | Min.           |  |  |
| SCANDINAVIA.               |                                    |                      |       |                   |          |                                  |                                   |             |      |                                   |       |                   |                |             |      |                     |                |  |  |
| Haparanda ..               | 30.09                              | 21                   | S     | 2                 | 0        | 29.92                            | -.19                              | 21          | 21   | -2                                | NE    | 4                 | bc             | *           | 32   | 19                  | -              |  |  |
| Hernösand ...              | 29.76                              | 35                   | NE    | 8                 | 5        | 29.56                            | -.36                              | 34          | 33   | -4                                | NE    | 8                 | s              | *           | 39   | 30                  | 0.16           |  |  |
| Stockholm ...              | 29.44                              | 37                   | ENE   | 6                 | 0        | 29.28                            | -.33                              | 37          | 36   | 0                                 | NE    | 4                 | r              | *           | 43   | 34                  | 0.17           |  |  |
| Wisby ...                  | 29.29                              | 48                   | SE    | 4                 | 0        | 29.12                            | -.34                              | 43          | 41   | +4                                | S     | 4                 | bc             | *           | 48   | 34                  | 0.16           |  |  |
| Bodö ...                   | 29.91                              | 38                   | ENE   | 4                 | 0        | 29.83                            | -.05                              | 31          | 30   | +1                                | ENE   | 2                 | b              | 1           | 37   | 30                  | -              |  |  |
| Christiansund...           | 29.55                              | 38                   | ESE   | 8                 | 0        | 29.34                            | -.05                              | 37          | 33   | -1                                | ENE   | 8                 | o              | 3           | 41   | 34                  | -              |  |  |
| Skudesnaes ...             | 29.30                              | 39                   | NNE   | 2                 | 0        | 29.29                            | -.13                              | 41          | 37   | +3                                | N     | 2                 | o              | 3           | 41   | 37                  | -              |  |  |
| Christiania Fjord (Færder) | 29.25                              | 37                   | NNE   | 7                 | r        | 29.21                            | -.16                              | 39          | 38   | +1                                | NNE   | 5                 | r              | 2           | ?    | 36                  | 1.66           |  |  |
| Skagen (The Scaw)          | 29.06                              | 45                   | ESE   | 5                 | 0        | 29.10                            | -.05                              | 43          | 42   | +3                                | E     | 3                 | o              | 3           | 45   | 39                  | 0.43           |  |  |
| Faenø ...                  | 29.01                              | 46                   | W     | 6                 | 0        | 29.15                            | + .14                             | 45          | 42   | -2                                | W     | 6                 | c              | *           | 55   | 43                  | 0.16           |  |  |
| BRITISH ISLANDS.           |                                    |                      |       |                   |          |                                  |                                   |             |      |                                   |       |                   |                |             |      |                     |                |  |  |
| Sumburgh Head              | 29.57                              | 38                   | N     | 5                 | 0        | 29.48                            | -.13                              | 41          | 39   | +4                                | N     | 5                 | s              | 5           | 43   | 34                  | 0.03           |  |  |
| Stornoway ...              | 29.80                              | 34                   | N     | 6                 | spu      | 29.71                            | -.09                              | 39          | 34   | +3                                | NE    | 6                 | s              | 5           | 42   | 31                  | 0.23           |  |  |
| Wick ...                   | 29.67                              | 36                   | N     | 5                 | b        | 29.56                            | -.10                              | 43          | 41   | +5                                | N     | 5                 | c              | 2           | 43   | 30                  | 0.07           |  |  |
| Nairn ...                  | 29.74                              | 37                   | NNW   | 4                 | c        | 29.63                            | -.07                              | 40          | 38   | +2                                | NNW   | 4                 | c              | 3           | 42   | 32                  | 0.03           |  |  |
| Aberdeen...                | 29.62                              | 38                   | N     | 6                 | bpy      | 29.51                            | -.10                              | 37          | 36   | -1                                | NW    | 4                 | rsp            | 4           | 43   | 33                  | 0.44           |  |  |
| Leith ...                  | 29.70                              | 39                   | NW    | 3                 | bc       | 29.62                            | -.05                              | 34          | 31   | -6                                | WNW   | 1                 | bmr            | *           | 49   | 30                  | -              |  |  |
| Shields ...                | 29.60                              | 40                   | NW    | 5                 | p        | 29.57                            | -.03                              | 32          | 30   | -5                                | W     | 2                 | b              | 4           | 46   | 30                  | 0.14           |  |  |
| Spurn Head ...             | 29.57                              | 43                   | NW    | 6                 | b        | 29.44                            | .00                               | 35          | 34   | -5                                | NW    | 6                 | b              | 6           | 47   | 33                  | 0.08           |  |  |
| York ...                   | 29.63                              | 41                   | W     | 2                 | bc       | 29.60                            | -.03                              | 33          | 32   | -4                                | NNW   | 3                 | b              | *           | 45   | 29                  | 0.01           |  |  |
| Loughborough               | 29.68                              | 37                   | W     | 3                 | b        | 29.65                            | -.05                              | 32          | 30   | -4                                | WNW   | 2                 | b              | *           | 49   | 29                  | -              |  |  |
| GERMANY.                   |                                    |                      |       |                   |          |                                  |                                   |             |      |                                   |       |                   |                |             |      |                     |                |  |  |
| Ardrossan ...              | 29.74                              | 43                   | NW    | 4                 | b        | 29.67                            | -.07                              | 37          | 34   | -2                                | N     | 1                 | b              | 1           | 47   | 34                  | -              |  |  |
| Malin Head ...             | 29.83                              | 42                   | N     | 4                 | op       | 29.73                            | -.10                              | 42          | 38   | +1                                | N     | 4                 | bchpy          | 4           | 43   | 36                  | 0.29           |  |  |
| Mullaghmore ...            | 29.91                              | 40                   | N     | 6                 | bess     | 29.77                            | -.12                              | 41          | 38   | -2                                | NNE   | 5                 | b              | 4           | 46   | 38                  | 0.38           |  |  |
| Belmullet ...              | 29.98                              | 44                   | NNW   | 5                 | r        | 29.82                            | -.14                              | 43          | 40   | -1                                | NE    | 7                 | opq            | *           | 47   | 40                  | 0.25           |  |  |
| Donaghadee ...             | 29.77                              | 45                   | NE    | 6                 | bc       | 29.67                            | -.12                              | 41          | 39   | +2                                | NE    | 6                 | c              | 4           | 47   | 33                  | 0.28           |  |  |
| FRANCE & NETHERLANDS.      |                                    |                      |       |                   |          |                                  |                                   |             |      |                                   |       |                   |                |             |      |                     |                |  |  |
| Barrow-in-Furness          | 29.68                              | 41                   | N     | 3                 | b        | 29.62                            | -.09                              | 35          | 33   | -3                                | NE    | 2                 | bc             | *           | 46   | 32                  | -              |  |  |
| Liverpool (Bidston)        | 29.69                              | 42                   | NNW   | 2                 | bc       | 29.64                            | -.09                              | 36          | 35   | -5                                | WSW   | 1                 | o              | 1           | 46   | 34                  | 0.01           |  |  |
| Holyhead ...               | 29.74                              | 42                   | NW    | 6                 | chpy     | 29.64                            | -.13                              | 38          | 38   | -3                                | NE    | 6                 | omht           | 6           | 47   | 38                  | 0.21           |  |  |
| Parsonstown ...            | 29.92                              | 38                   | N     | 5                 | bc       | 29.75                            | -.18                              | 38          | 37   | 0                                 | NNW   | 2                 | b              | *           | 45   | 33                  | 0.13           |  |  |
| Valencia ...               | 30.00                              | 40                   | N     | 5                 | cp       | 29.82                            | -.16                              | 48          | 46   | +4                                | NNW   | 5                 | oghr           | 5           | 50   | 43                  | 0.24           |  |  |
| SPAIN.                     |                                    |                      |       |                   |          |                                  |                                   |             |      |                                   |       |                   |                |             |      |                     |                |  |  |
| Roche's Point...           | 29.91                              | 45                   | NW    | 4                 | bc       | 29.71                            | -.20                              | 44          | 42   | +3                                | NW    | 5                 | p              | 4           | 50   | 38                  | 0.03           |  |  |
| Pembroke ...               | 29.77                              | 45                   | NW    | 4                 | bc       | 29.68                            | -.13                              | 42          | 42   | -3                                | NW    | 4                 | rhaq           | 3           | 47   | 37                  | 0.13           |  |  |
| Seilly ...                 | 29.81                              | 49                   | NW    | 6                 | chq      | 29.77                            | -.09                              | 48          | 46   | +1                                | NW    | 6                 | o              | 5           | 51   | 43                  | 0.06           |  |  |
| Prawle Point ...           | 29.79                              | 41                   | NNW   | 4                 | c        | 29.75                            | -.04                              | 43          | 41   | 0                                 | NNW   | 1                 | bc             | 1           | 52   | 34                  | 0.18           |  |  |
| Jersey ...                 | 29.78                              | 46                   | NNW   | 4                 | c        | 29.73                            | -.06                              | 45          | 41   | -3                                | NNW   | 4                 | bep            | 3           | 52   | 41                  | 0.17           |  |  |
| PORTUGAL.                  |                                    |                      |       |                   |          |                                  |                                   |             |      |                                   |       |                   |                |             |      |                     |                |  |  |
| Hurst Castle ...           | 29.72                              | 42                   | NW    | 4                 | bc       | 29.69                            | -.08                              | 38          | 37   | -4                                | NW    | 3                 | bc             | 1           | 51   | 30                  | 0.02           |  |  |
| Dungeness ...              | 29.65                              | 46                   | NW    | 4                 | bc       | 29.62                            | -.06                              | 34          | 34   | -5                                | NW    | 3                 | ms             | 2           | 52   | 29                  | 0.01           |  |  |
| London ...                 | 29.68                              | 43                   | NNW   | 3                 | b        | 29.67                            | -.03                              | 33          | 33   | -2                                | W     | 1                 | b              | *           | 49   | 32                  | 0.03           |  |  |
| Oxford ...                 | 29.70                              | 38                   | NW    | 3                 | b        | 29.68                            | -.05                              | 30          | 30   | -9                                | W     | 1                 | bc             | *           | 47   | 29                  | -              |  |  |
| Cambridge ...              | 29.65                              | 40                   | NW    | 2                 | b        | 29.63                            | -.03                              | 34          | 32   | -4                                | NW    | 1                 | b              | *           | 49   | 31                  | 0.10           |  |  |
| IRELAND.                   |                                    |                      |       |                   |          |                                  |                                   |             |      |                                   |       |                   |                |             |      |                     |                |  |  |
| Yarmouth ...               | 29.57                              | 41                   | WNW   | 4                 | bc       | 29.52                            | -.01                              | 35          | 34   | -4                                | W     | 4                 | og             | 5           | 45   | 31                  | 0.47           |  |  |
| Cuxhaven ...               | 29.10                              | 42                   | NW    | 8                 | r        | 29.35                            | + .20                             | 44          | 42   | -2                                | SW    | 5                 | b              | *           | 48   | 41                  | 0.64           |  |  |
| Berlin ...                 | 29.42                              | 47                   | SW    | 6                 | o        | 29.56                            | + .23                             | 40          | 38   | -8                                | SW    | 4                 | b              | *           | 52   | 29                  | -              |  |  |
| Wiesbaden ...              | *                                  | *                    | *     | *                 | *        | *                                | *                                 | *           | *    | *                                 | *     | *                 | *              | *           | *    | *                   | *              |  |  |
| Munich ...                 | 29.80                              | 39                   | W     | 4                 | bc       | 29.76                            | + .09                             | 35          | 33   | -8                                | SE    | 41                | o              | *           | 46   | 30                  | 0.04           |  |  |
| NETHERLANDS.               |                                    |                      |       |                   |          |                                  |                                   |             |      |                                   |       |                   |                |             |      |                     |                |  |  |
| The Helder ...             | 29.45                              | 46                   | WNW   | 7                 | r        | 29.39                            | + .11                             | 43          | 41   | -3                                | WSW   | 3                 | o              | 3           | 50   | 43                  | 0.35           |  |  |
| Brussels ...               | *                                  | *                    | *     | *                 | *        | 29.60                            | ?                                 | 37          | 36   | -6                                | SSW   | 1                 | c              | *           | 49   | 36                  | 0.04           |  |  |
| Cape Gris Nez...           | 29.64                              | 48                   | WNW   | 5                 | b        | 29.62                            | - .1                              | 40          | 39   | -4                                | NNW   | 7                 | o              | 5           | 50   | 39                  | -              |  |  |
| Paris ...                  | 29.75                              | 40                   | WNW   | 1                 | bc       | 29.69                            | -.09                              | 37          | 36   | -5                                | SW    | 1                 | o              | *           | 52   | ?                   | -              |  |  |
| Brest ...                  | 29.78                              | 47                   | NW    | 5                 | o        | 29.82                            | -.09                              | 43          | 41   | -5                                | NW    | 8                 | o              | 2.6         | 55   | 41                  | 0.24           |  |  |
| BELGIUM.                   |                                    |                      |       |                   |          |                                  |                                   |             |      |                                   |       |                   |                |             |      |                     |                |  |  |
| Lorient ...                | 29.86                              | 30                   | NNW   | 5                 | c        | 29.84                            | -.01                              | 44          | 40   | -4                                | NW    | 4                 | b              | 3           | 52   | 41                  | -              |  |  |
| Rochefort ...              | 29.91                              | 52                   | WSW   | 5                 | c        | 29.88                            | -.10                              | 47          | 45   | -3                                | NW    | 7                 | c              | 2           | 55   | 41                  | 0.51           |  |  |
| Belfort ...                | *                                  | *                    | *     | *                 | *        | *                                | *                                 | *           | *    | *                                 | *     | *                 | *              | *           | *    | *                   | *              |  |  |
| Lyons ...                  | 29.89                              | 45                   | W     | 1                 | b        | 29.84                            | -.04                              | 39          | 37   | -3                                | WSW   | 3                 | c              | *           | 54   | 37                  | -              |  |  |
| Nice ...                   | 29.86                              | 36                   | W     | 5                 | b        | 29.73                            | + .17                             | 50          | ?    | -4                                | E     | 3                 | b              | 2           | 63   | 45                  | -              |  |  |
| FRANCE.                    |                                    |                      |       |                   |          |                                  |                                   |             |      |                                   |       |                   |                |             |      |                     |                |  |  |
| Perpignan ...              | 29.93                              | 52                   | L     | 0                 | c        | 29.90                            | -.04                              | 49          | 44   | -3                                | NW    | 4                 | b              | *           | 67   | 42                  | -              |  |  |
| Biarritz ...               | 29.94                              | 55                   | W     | 7                 | r        | 29.91                            | *                                 | 52          | 48   | *                                 | WSW   | 7                 | r              | 3           | 61   | 46                  | 0.02           |  |  |
| PORTUGAL.                  |                                    |                      |       |                   |          |                                  |                                   |             |      |                                   |       |                   |                |             |      |                     |                |  |  |
| Corunna ...                | *                                  | *                    | *     | *                 | *        | *                                | *                                 | *           | *    | *                                 | *     | *                 | *              | *           | *    | *                   | *              |  |  |
| Lisbon ...                 | 30.05                              | 59                   | N     | 5                 | c        | 30.06                            | + .02                             | 54          | 47   | -6                                | N     | 5                 | bc             | 2           | 68   | 52                  | -              |  |  |

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on WEDNESDAY 12<sup>th</sup> OCTOBER. 1887.

## BAROMETER, WIND & SEA.

(Explanation of Map)

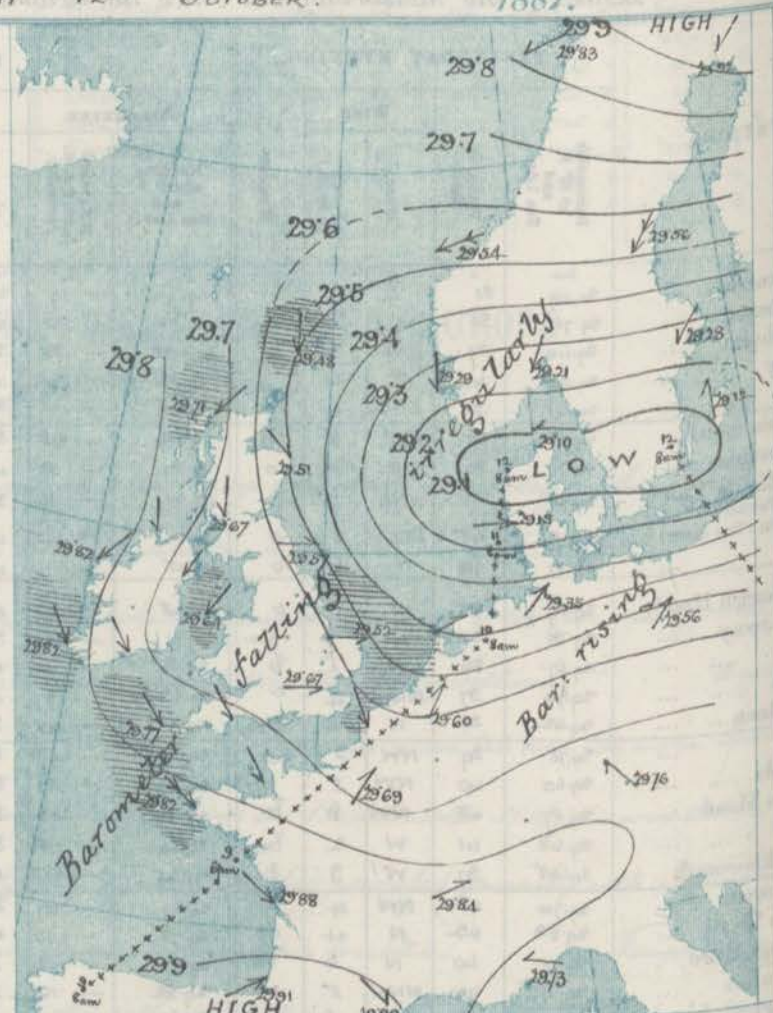
**Barometer** — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.  
**Wind** — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus —  
 \* — forces above 10; — forces 8 to 10;  
 — forces 5 to 7; — forces 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 10 Years 1871—1880.

| STATIONS.     | MEAN READINGS. |
|---------------|----------------|
| Sumburgh Head | 29.685         |
| Stornoway     | 29.707         |
| Wick          | 29.718         |
| Nairn         | 29.738         |
| Aberdeen      | 29.748         |
| Leith         | 29.780         |
| Shields       | 29.821         |
| York          | 29.860         |
| Ardrossan     | 29.749         |
| Donaghadee    | 29.805         |
| Holyhead      | 29.830         |
| Liverpool     | 29.848         |
| Valencia      | 29.842         |
| Roche's Point | 29.843         |
| Pembroke      | 29.847         |
| Scilly        | 29.877         |
| Hurst Castle  | 29.894         |
| Dover         | 29.907         |
| LONDON        | 29.902         |
| Oxford        | 29.891         |
| Cambridge     | 29.894         |
| Yarmouth      | 29.889         |



## 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<br>(Inches) |
|---------------|--------------|---------------|-----------|-----------|----------------------|
|               | Daily<br>Max | Daily<br>Min. | At 8 a.m. | At 4 p.m. |                      |
| Sumburgh Head | 49.5         | 41.6          | 45.9      | 44.4      | 4.33                 |
| Stornoway     | 50.2         | 38.8          | 45.1      | 43.9      | 4.94                 |
| Wick          | 51.8         | 40.0          | 46.0      | 44.8      | 2.94                 |
| Nairn         | 51.4         | 40.7          | 44.6      | 42.5      | 2.33                 |
| Aberdeen      | 52.1         | 41.3          | 45.5      | 43.5      | 2.88                 |
| Leith         | 55.3         | 41.9          | 46.7      | 45.1      | 1.94                 |
| Shields       | 53.2         | 43.1          | 47.3      | 45.5      | 2.46                 |
| York          | 55.2         | 40.9          | 46.0      | 44.7      | 2.64                 |
| Ardrossan     | 53.7         | 43.2          | 47.7      | 45.4      | 4.31                 |
| Donaghadee    | 53.2         | 43.2          | 47.8      | 46.8      | 3.85                 |
| Holyhead      | 54.9         | 47.5          | 50.4      | 48.6      | 4.53                 |
| Liverpool     | 54.0         | 44.9          | 48.0      | 46.2      | 3.62                 |
| Valencia      | 56.7         | 46.5          | 51.3      | 49.1      | 6.09                 |
| Roche's Point | 55.6         | 46.4          | 50.4      | 48.6      | 4.17                 |
| Pembroke      | 55.1         | 48.4          | 51.5      | 49.4      | 4.13                 |
| Scilly        | 56.8         | 50.7          | 53.9      | 52.0      | 3.84                 |
| Hurst Castle  | 57.7         | 46.8          | 51.5      | 50.6      | 3.24                 |
| Dover         | 56.2         | 47.8          | 51.5      | 49.4      | 3.28                 |
| LONDON        | 57.1         | 43.5          | 48.4      | 46.9      | 2.74                 |
| Oxford        | 55.7         | 42.9          | 47.0      | 45.8      | 2.72                 |
| Cambridge     | 57.0         | 41.6          | 46.6      | 45.7      | 2.36                 |
| Yarmouth      | 54.9         | 45.1          | 49.5      | 48.2      | 2.97                 |

NOTE — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 10 years 1866—85





# GENERAL SITUATION AT 8 A.M.

|             |  |
|-------------|--|
| PRESSURE    | Highest Lisbon 30.06 in, Perpignan 29.90 in, Haparanda 29.92 in, West of Ireland 29.82 in<br>Lowest North of Denmark and South of Sweden 29.1 in, and less<br>Tends to moderate and irregular in our Islands, rather deep over the eastern shore of the North Sea<br>Barometer falling generally, but at variable rates in different localities  |
| TEMPERATURE | Highest 57° at Lisbon, 52° at Biarritz, 53° at Kiel, 46° at Funchal, 43° at Belmullet.<br>Lowest 21° at Haparanda, 31° at Rode, 30° to 34° over our inland countries, 35° at Munich, 37° at Paris and 38° at Parsonstown.<br>It is inclined to rise a little in Scotland and at Alic, but has in most places, fallen.<br>Sharp frost prevailed on the ground at our inland stations during the night |
| WIND        | Blows a fresh gale from the N.E. at Helsingland and Christiansund<br>A moderate to strong breeze from between N.E. and N.W. over our Islands.<br>A moderate to fresh gale from N.W. in the west and north of France<br>In north Germany it is fresh to moderate between W and S.W., and at Wexley it is southerly  |
| WEATHER     | Very unsettled. Snow sleet, hail and rain showers, with bright intervals<br>has prevailed in all parts of our Islands and continues in several places<br>Thunder and lightning in several localities. Solar halos seen over the<br>southeast of England this morning.  |
| SEA         | Rough, or rather so except off our south coasts. It is apparently rather rough on<br>the French side of the Channel.   |

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression noticed over Denmark yesterday has been rendered more complex by the advance, to the south of Sweden, of a second minimum from Hungary, while over the British Isles, the Netherlands, and northern parts of France, several small subsidiary systems have caused the showery unsettled weather above referred to.

As these systems are still found in our neighbourhood, and as the barometer still falls irregularly no important improvement of the weather can be looked for at present.

## FORECASTS

for the 24 hours ending at NOON on 13<sup>th</sup> October 1887.

| DISTRICTS.         | FORECASTS.   | DISTRICTS.       | FORECASTS.  |
|--------------------|--|------------------|---|
| 0 SCOTLAND NORTH   | N <sup>th</sup> winds, strong; squally, cold showers.  | 6 SCOTLAND WEST  | NE <sup>ly</sup> and N <sup>th</sup> winds, strong; squally, cold showers.                      |
| 1 SCOTLAND EAST    | NW <sup>ly</sup> winds, fresh; squally, cold showers, very cold at night.                                | 7 ENGLAND N.W.   | .....D.....D.....D.....   |
| 2 ENGLAND N.E.     | .....D.....D.....D.....  | 8 ENGLAND S.W.   | NW <sup>ly</sup> to NE <sup>ly</sup> winds, strong; squally, cold showers, lightning in places. |
| 3 ENGLAND EAST     | Same as N <sup>o</sup> 5.  | 9 IRELAND NORTH  | Same as N <sup>os</sup> 6 and 7.  |
| 4 MIDLAND COUNTIES | Same as N <sup>os</sup> 1 and 2.   | 10 IRELAND SOUTH | Same as N <sup>o</sup> 8.   |
| 5 ENGLAND SOUTH    | NW <sup>ly</sup> winds, moderate or light; some cold showers, with bright intervals. Very cold at night. | 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.  | Dry. | Wet. | Wind. | Wes. | Sea. |               | Bar.  | Dry. | Wet. | Wind. | Wes. | Sea. |
|-------------------|-------|------|------|-------|------|------|---------------|-------|------|------|-------|------|------|
| Skudesnaes ...    | 29.36 | 40   | 36   | N 6   | 0    | 4    | Holyhead ...  | 29.74 | 46   | 41   | NW 6  | cq   | 5    |
| Sumburgh Head ... | 29.60 | 40   | 37   | N 6   | c    | 5    | Valencia ...  | 29.97 | 50   | 46   | NNW 4 | bcpq | 5    |
| Stornoway ...     | 29.81 | 41   | 39   | NE 6  | bc   | 5    | Scilly ...    | 29.87 | 50   | 46   | NNW 6 | cq   | 5    |
| Aberdeen ...      | 29.60 | 41   | 40   | NNH 6 | brsq | 6    | Dungeness ... | 29.67 | 48   | 44   | NW 4  | c    | 3    |
| Shields ...       | 29.60 | 46   | 41   | NW 5  | c    | 5    | London ...    | 29.68 | 48   | 40   | WNW 3 | b    | 5    |
| Ardrossan ...     | 29.73 | 44   | 39   | NW 5  | c    | 3    | Yarmouth ...  | 29.50 | 45   | 41   | NW 5  | bc   | 3    |
| Malin Head ...    | 29.89 | 40   | 39   | N 5   | c    | 3    | Jersey ...    | 29.78 | 51   | 45   | NW 3  | bc   | 2    |
| Mullaghmore ...   | 29.88 | 43   | 40   | NNW 6 | chrg | 5    | Rochefort ... | 29.96 | 49   | 47   | NW 3  | r    |      |
| Belmullet ...     | 29.96 | 44   | 41   | N 7   | bcfo | *    |               |       |      |      |       |      |      |

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

The reports for yesterday morning showed that while the deep depression noticed on Monday, over northern western Germany, had moved in a north northeast direction to Denmark, a new disturbance had appeared over Eastern Austria.

The distribution of pressure over Europe was therefore mainly cyclonic, but an area of high readings 30.3 ins. and upwards was reported over Central Russia, while another area of high pressure 30.0 ins. and upwards was found over Spain.

Strong winds or gales from the E. were reported over Northern Europe, and N. winds over our Islands, and the west of France, but in Italy and the east of France, moderate S.W. breezes prevailed, while over the southeast of Europe the wind circulated round the Austrian depression.

Rain was falling in the neighbourhood of the two cyclonic disturbances, and showers of hail and snow were reported over the northern parts of the United Kingdom, but over Southern Europe the weather, though dull locally, was generally fair.

Temperature had risen a little in Germany and Austria, as well as in the south of Scandinavia and some parts of Russia, but fallen elsewhere, readings ranged from 70° and upwards over Algeria and southern Italy to 32°, and less over the north of Scandinavia and the greater part of Russia.

The highest individual readings were 76° at Sfax, 74° at Malta, 72° at Oran and Palermo, 71° at Tunis and 70° at Algiers and La Calle; the lowest were 20° at Uleaborg, 22° at Kuopio, 26° at Archangel, 27° at Moscow, 30° at St. Petersburg and 31° at Haparanda.

In the course of the day the depression over Denmark continued to move slowly in a north northeast direction while that over Austria also travelled in a similar course. Showers of snow, hail and cold rain were reported over many parts of Great Britain, with sharp frosts at night.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for Thursday 13<sup>th</sup> October

1887.

Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

|                           |     | + YESTERDAY EVENING.               |                 |       |                   |          | 8 A.M. TO DAY.                   |                                   |             |      |                                   |       |                   |                |             |      | PAST 24 HOURS.      |      |  |
|---------------------------|-----|------------------------------------|-----------------|-------|-------------------|----------|----------------------------------|-----------------------------------|-------------|------|-----------------------------------|-------|-------------------|----------------|-------------|------|---------------------|------|--|
| STATIONS.                 |     | Barometer at 32° F. and Sea Level. | Temp. in Shade. | WIND. |                   | Weather. | BAROMETER.                       |                                   | SHADE TEMP. |      |                                   | WIND. |                   | Sea. (0 to 9.) | SHADE TEMP. |      | Amount of Rainfall. |      |  |
|                           |     |                                    |                 | Dir.  | Force. (0 to 12.) |          | Reading at 32° F. and Sea Level. | Difference from 8 a.m. yesterday. | Dry.        | Wet. | Difference from 8 a.m. yesterday. | Dir.  | Force. (0 to 12.) |                | Weather.    | Max. |                     | Min. |  |
| SCANDINAVIA.              |     |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |                |             |      |                     |      |  |
| Haparanda                 | ... | 29.63                              | 26              | NE    | 2                 | bc       | 29.38                            | - 34                              | 28          | 27   | + 7                               | NE    | 2                 | S              | *           | 32   | 18                  | 0.08 |  |
| Hernösand                 | ... | 29.47                              | 33              | NE    | 2                 | S        | 29.46                            | - 10                              | 28          | 27   | - 6                               | N     | 4                 | S              | *           | 37   | ?                   | 0.39 |  |
| Stockholm                 | ... | 29.37                              | 35              | NW    | 2                 | O        | 29.41                            | + 13                              | 33          | 32   | - 4                               | SE    | 0                 | S              | *           | 39   | ?                   | 0.24 |  |
| Visby                     | ... | 29.89                              | 45              | W     | 8                 | bc       | 29.39                            | + 27                              | 45          | 43   | + 2                               | WSW   | 4                 | O              | *           | 50   | 41                  | -    |  |
| Bodo                      | ... | 29.71                              | 29              | ESE   | 1                 | b        | 29.45                            | - 38                              | 26          | 23   | - 5                               | ?     | 2                 | b              | 1           | 34   | 23                  | -    |  |
| Christiansund             | ... | 29.64                              | 36              | NNE   | 4                 | O        | 29.60                            | + 06                              | 37          | 35   | 0                                 | SSW   | 3                 | T              | 3           | 37   | 32                  | 0.04 |  |
| Skudesnaes                | ... | 29.43                              | 44              | ESE   | 3                 | O        | 29.59                            | + 30                              | 39          | 35   | - 2                               | N     | 2                 | bc             | 2           | 46   | ?                   | -    |  |
| Christiania Fjord (Fæder) | ... | 29.40                              | 38              | N     | 5                 | O        | 29.50                            | + 29                              | 36          | 33   | - 3                               | NNE   | 5                 | O              | 2           | 39   | 36                  | -    |  |
| Skagen (The Scaw)         | ... | 29.31                              | 40              | NE    | 5                 | O        | 29.44                            | + 34                              | 39          | 37   | - 4                               | NE    | 4                 | O              | 3           | 45   | 39                  | 0.12 |  |
| Faro                      | ... | 29.37                              | 39              | NNE   | 1                 | b        | 29.49                            | + 37                              | 37          | 36   | - 8                               | NN    | 1                 | bc             | *           | 48   | 37                  | -    |  |
| IRELAND.                  |     |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |                |             |      |                     |      |  |
| Sambarugh Head            | ... | 29.66                              | 40              | N     | 6                 | C        | 29.88                            | + 40                              | 40          | 38   | - 1                               | N     | 4                 | C              | 5           | 44   | 37                  | 0.21 |  |
| Stornoway                 | ... | 29.86                              | 42              | NE    | 6                 | Csp      | 30.08                            | + 37                              | 40          | 39   | + 1                               | E     | 3                 | bc             | 3           | 45   | 37                  | 0.12 |  |
| Wick                      | ... | 29.71                              | 43              | N     | 6                 | O        | 29.94                            | + 38                              | 42          | 40   | - 1                               | N     | 3                 | C              | 3           | 45   | 39                  | 0.10 |  |
| Nairn                     | ... | 29.75                              | 42              | NW    | 5                 | O        | 30.01                            | + 38                              | 42          | 40   | + 2                               | N     | 4                 | C              | 3           | 44   | 39                  | 0.08 |  |
| Aberdeen                  | ... | 29.60                              | 42              | N     | 6                 | thp      | 29.89                            | + 38                              | 44          | 40   | + 7                               | N     | 6                 | bcsp           | 5           | 46   | 36                  | 0.26 |  |
| Leith                     | ... | 29.66                              | 40              | W     | 2                 | O        | 29.92                            | + 30                              | 44          | 43   | + 10                              | NW    | 3                 | C              | *           | 49   | 33                  | 0.01 |  |
| Shields                   | ... | 29.57                              | 41              | NW    | 3                 | O        | 29.76                            | + 19                              | 46          | 43   | + 14                              | NNE   | 6                 | O              | 6           | 46   | 30                  | 0.60 |  |
| Spurn Head                | ... | 29.58                              | 44              | NW    | 6                 | bc       | 29.68                            | + 14                              | 45          | 44   | + 10                              | NW    | 5                 | Cptsh          | 5           | 45   | 35                  | 0.18 |  |
| York                      | ... | 29.61                              | 43              | NW    | 3                 | O        | 29.77                            | + 17                              | 43          | 41   | + 10                              | N     | 3                 | T              | *           | 47   | 32                  | 0.13 |  |
| Loughborough              | ... | 29.66                              | 38              | NW    | 1                 | b        | 29.77                            | + 12                              | 41          | 40   | + 9                               | NW    | 3                 | op             | *           | 49   | 32                  | 0.03 |  |
| SCOTLAND.                 |     |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |                |             |      |                     |      |  |
| Ardsrossan                | ... | 29.78                              | 46              | N     | 3                 | bc       | 29.98                            | + 31                              | 44          | 40   | + 7                               | N     | 4                 | bc             | 3           | 49   | 37                  | -    |  |
| Malin Head                | ... | 29.82                              | 43              | N     | 5                 | Csp      | 30.06                            | + 33                              | 46          | 43   | + 4                               | N     | 5                 | opsh           | 5           | 47   | 42                  | 0.07 |  |
| Mullaghmore               | ... | 29.86                              | 46              | N     | 6                 | bcsp     | 30.09                            | + 32                              | 45          | 41   | + 4                               | NE    | 5                 | C              | 4           | 49   | 40                  | 0.05 |  |
| Belmullet                 | ... | 29.93                              | 45              | N     | 4                 | b        | 30.15                            | + 33                              | 46          | 42   | + 3                               | N     | 5                 | bc             | *           | 49   | 42                  | 0.04 |  |
| Donaghadee                | ... | 29.74                              | 48              | NE    | 6                 | C        | 29.99                            | + 32                              | 48          | 44   | + 7                               | NE    | 6                 | bc             | 4           | 49   | 39                  | -    |  |
| ENGLAND.                  |     |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |                |             |      |                     |      |  |
| Barrow-in-Furness         | ... | 29.65                              | 43              | NW    | 3                 | C        | 29.85                            | + 23                              | 43          | 39   | + 8                               | N     | 4                 | b              | *           | 46   | 35                  | -    |  |
| Liverpool (Bilston)       | ... | 29.68                              | 42              | NW    | 2                 | O        | 29.87                            | + 23                              | 44          | 40   | + 8                               | N     | 4                 | C              | 4           | 45   | 36                  | 0.05 |  |
| Holyhead                  | ... | 29.70                              | 47              | N     | 4                 | Oq       | 29.93                            | + 29                              | 46          | 43   | + 8                               | N     | 6                 | Cq             | 6           | 48   | 35                  | 0.22 |  |
| Parsonstown               | ... | 29.85                              | 41              | NW    | 1                 | b        | 30.09                            | + 34                              | 30          | 30   | - 8                               | SE    | 0                 | b              | *           | 48   | 29                  | -    |  |
| Valencia                  | ... | 29.92                              | 47              | N     | 3                 | bc       | 30.13                            | + 31                              | 49          | 44   | + 1                               | NNE   | 3                 | C              | 4           | 50   | 43                  | 0.11 |  |
| Roche's Point             | ... | 29.82                              | 47              | N     | 4                 | b        | 30.05                            | + 34                              | 42          | 39   | - 2                               | N     | 4                 | b              | 4           | 49   | 40                  | -    |  |
| Pembroke                  | ... | 29.72                              | 40              | NNE   | 3                 | bc       | 29.90                            | + 22                              | 44          | 44   | + 2                               | NNE   | 5                 | Cqsp           | 3           | 47   | 39                  | 0.41 |  |
| Scilly                    | ... | 29.68                              | 49              | N     | 8                 | qch      | 29.89                            | + 12                              | 48          | 46   | 0                                 | N     | 6                 | Cq             | 5           | 50   | 43                  | 0.36 |  |
| Prawle Point              | ... | 29.56                              | 37              | N     | 4                 | C        | 29.85                            | + 10                              | 42          | 39   | - 1                               | NNE   | 3                 | bc             | 3           | 48   | 33                  | 0.43 |  |
| Jersey                    | ... | 29.57                              | 42              | WSW   | 3                 | T        | 29.77                            | + 04                              | 44          | 43   | - 1                               | NE    | 2                 | bcw            | 2           | 52   | 41                  | 0.66 |  |
| Hurst Castle              | ... | 29.63                              | 45              | SSE   | 3                 | Cq       | 29.81                            | + 12                              | 38          | 37   | 0                                 | N     | 2                 | C              | 1           | 49   | 30                  | -    |  |
| Dungeness                 | ... | 29.65                              | 42              | NN    | 1                 | C        | 29.73                            | + 11                              | 30          | 29   | - 4                               | N     | 3                 | T              | 2           | 48   | 27                  | -    |  |
| London                    | ... | 29.67                              | 34              | NN    | 1                 | bf       | 29.78                            | + 11                              | 31          | 30   | - 2                               | N     | 1                 | Oq             | *           | 48   | 27                  | -    |  |
| Oxford                    | ... | 29.71                              | 34              | N     | 1                 | b        | 29.80                            | + 12                              | 40          | 39   | + 10                              | NW    | 2                 | Oq             | *           | 49   | 29                  | -    |  |
| Cambridge                 | ... | 29.65                              | 39              | W     | 1                 | b        | 29.74                            | + 11                              | 41          | 40   | + 7                               | NW    | 1                 | O              | *           | 48   | 29                  | -    |  |
| Yarmouth                  | ... | 29.58                              | 39              | NW    | 3                 | C        | 29.66                            | + 14                              | 38          | 37   | + 3                               | WSW   | 3                 | cmw            | 3           | 44   | 30                  | 0.04 |  |
| Cuxhaven                  | ... | 29.39                              | 42              | SW    | 6                 | T        | 29.54                            | + 19                              | 43          | 42   | - 1                               | WSW   | 6                 | T              | *           | 44   | 41                  | 1.20 |  |
| Berlin                    | ... | 29.62                              | 41              | SW    | 1                 | b        | 29.75                            | + 19                              | 38          | 37   | - 1                               | SW    | 2                 | T              | *           | 50   | 34                  | -    |  |
| Wiesbaden                 | ... | *                                  | *               | *     | *                 | *        | 29.83                            | *                                 | 35          | 34   | *                                 | SW    | 1                 | b              | *           | 48   | 32                  | 0.04 |  |
| Manich                    | ... | 29.79                              | 39              | SW    | 4                 | O        | 29.88                            | + 12                              | 36          | 34   | + 1                               | SE    | 3                 | b              | *           | 46   | 34                  | -    |  |
| GERMANY.                  |     |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |                |             |      |                     |      |  |
| The Helder                | ... | 29.54                              | 48              | W     | 5                 | O        | 29.63                            | + 24                              | 46          | 42   | + 3                               | WSW   | 4                 | C              | 3           | 48   | 43                  | 0.24 |  |
| Brussels                  | ... | *                                  | *               | *     | *                 | *        | 29.78                            | + 18                              | 36          | 35   | - 1                               | S     | 1                 | b              | *           | 45   | 34                  | 0.04 |  |
| Cape Gris Nez             | ... | 29.66                              | 42              | SW    | 4                 | bc       | 29.74                            | + 12                              | 39          | 38   | - 1                               | SE    | 3                 | b              | 2           | 46   | 36                  | -    |  |
| Paris                     | ... | 29.76                              | 38              | SW    | 1                 | bc       | 29.68                            | - 01                              | 39          | 38   | + 2                               | ESE   | 3                 | T              | *           | ?    | 34                  | 0.04 |  |
| Brest                     | ... | 29.64                              | 46              | W     | 9                 | O        | 29.85                            | + 03                              | 44          | 40   | + 1                               | NE    | 4                 | b              | 4           | 55   | 39                  | 0.16 |  |
| Lorient                   | ... | 29.66                              | 47              | W     | 7                 | T        | 29.76                            | - 05                              | 45          | 42   | + 1                               | NNE   | 8                 | bc             | 5           | 52   | 39                  | 0.24 |  |
| Rochefort                 | ... | 29.84                              | 51              | WSW   | 5                 | O        | 29.72                            | - 16                              | 47          | 44   | 0                                 | NW    | 7                 | C              | 7           | 54   | 243                 | 0.32 |  |
| Belfort                   | ... | 29.79                              | 38              | N     | 3                 | O        | 29.79                            | *                                 | 38          | 37   | *                                 | NE    | 3                 | bc             | *           | 47   | 28                  | 0.32 |  |
| Lyons                     | ... | 29.87                              | 42              | NW    | 3                 | bc       | 29.63                            | - 21                              | 39          | 37   | 0                                 | S     | 3                 | O              | *           | 56   | 34                  | -    |  |
| Nice                      | ... | 29.69                              | 53              | W     | 1                 | b        | 29.78                            | + 05                              | 50          | 42   | 0                                 | ESE   | 3                 | C              | 2           | 63   | 43                  | -    |  |
| FRANCE & NETHERLANDS.     |     |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |                |             |      |                     |      |  |
| Perpignan                 | ... | 29.40                              | 54              | NW    | 4                 | b        | 29.84                            | - 06                              | 41          | 41   | - 5                               | W     | 3                 | C              | *           | 62   | 39                  | -    |  |
| Biarritz                  | ... | 29.95                              | 50              | W     | 7                 | T        | 29.84                            | - 07                              | 50          | 48   | - 2                               | W     | 9                 | T              | 5           | 57   | 46                  | 0.71 |  |
| PORTUGAL.                 |     |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |                |             |      |                     |      |  |
| Corunna                   | ... | *                                  | *               | *     | *                 | *        | 30.06                            | + 02                              | 50          | 47   | - 4                               | N     | 3                 | bc             | 2           | 61   | 50                  | -    |  |
| Lisbon                    | ... | *                                  | *               | *     | *                 | *        | 30.08                            | + 02                              | 50          | 47   | - 4                               | N     | 3                 | bc             | 2           | 61   | 50                  | -    |  |

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on Thursday, 13<sup>TH</sup> OCTOBER

1887.

## BAROMETER, WIND & SEA.

(Explanation of Map)

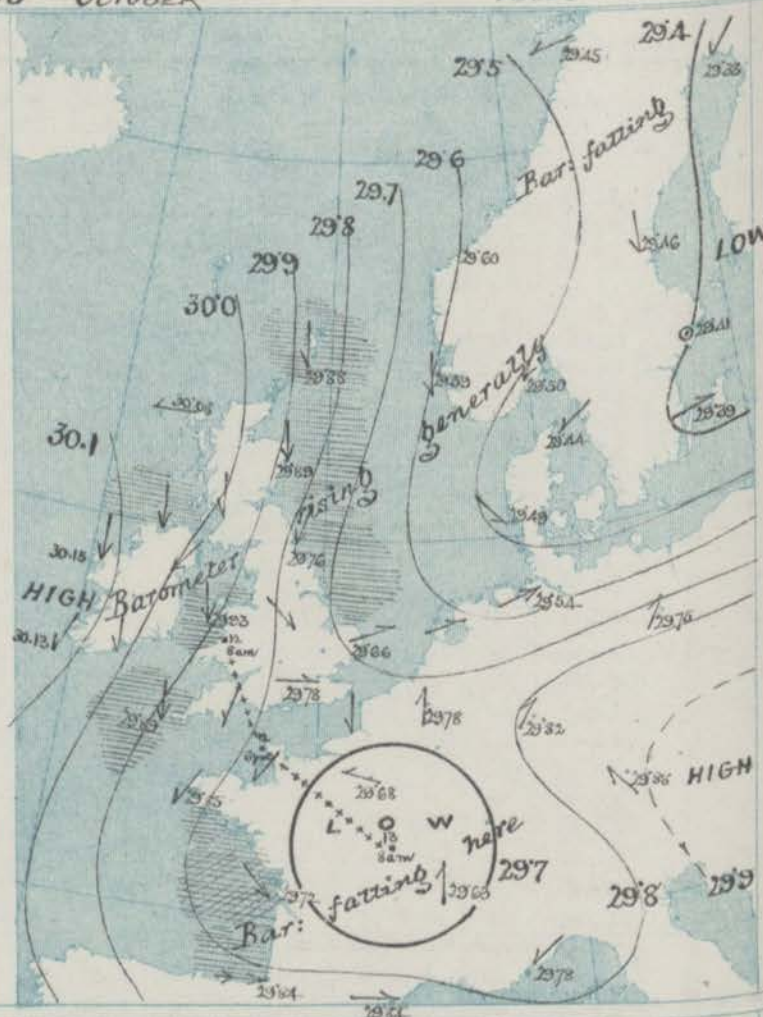
**Barometer** — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.  
**Wind** — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —  
 — forces above 10; — forces 8 to 10;  
 — forces 5 to 7; — forces 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 10 Years 1871—1880.

| STATIONS.     | MEAN READINGS. |
|---------------|----------------|
|               | in.            |
| Sumburgh Head | 29.685         |
| Stornoway     | 29.707         |
| Wick          | 29.715         |
| Nairn         | 29.738         |
| Aberdeen      | 29.748         |
| Leith         | 29.780         |
| Shields       | 29.821         |
| York          | 29.860         |
| Ardrossan     | 29.749         |
| Donaghadee    | 29.805         |
| Holyhead      | 29.830         |
| Liverpool     | 29.848         |
| Valencia      | 29.842         |
| Roche's Point | 29.843         |
| Pembroke      | 29.847         |
| Scilly        | 29.877         |
| Hurst Castle  | 29.894         |
| Dover         | 29.907         |
| LONDON        | 29.902         |
| Oxford        | 29.891         |
| Cambridge     | 29.894         |
| Yarmouth      | 29.889         |



## TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

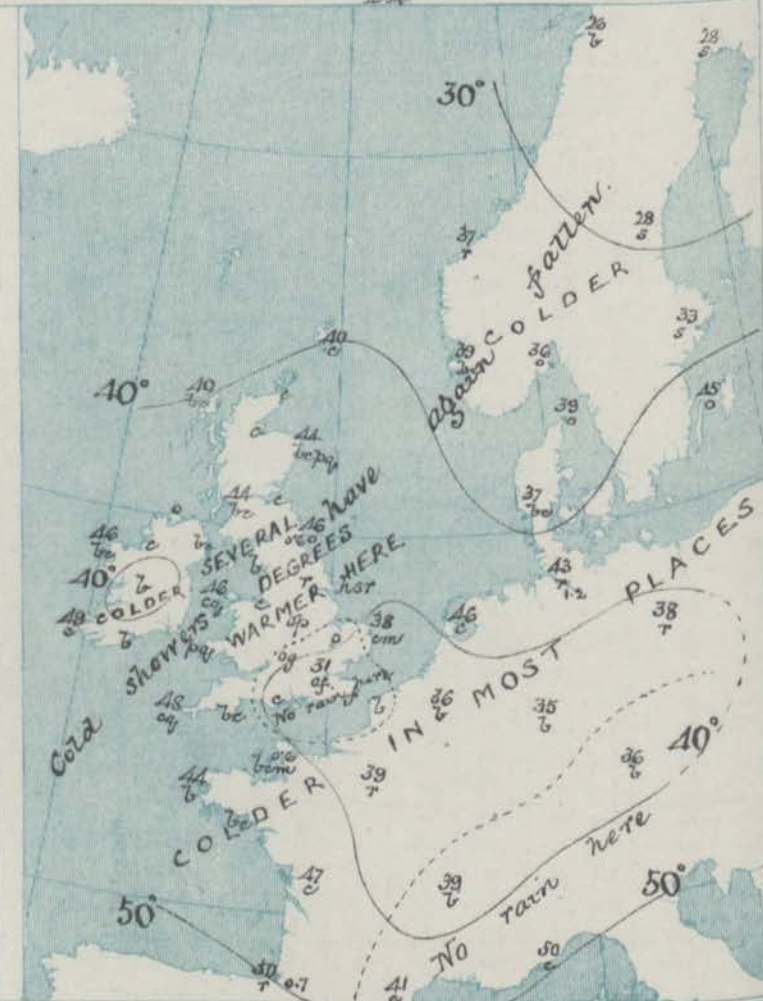
**Temperature** — Isotherms are drawn for each 10° changes since previous morning are stated in words.  
**Weather** — is shown by Letters of the Beaufort Scale.  
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more,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

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of October.

| STATIONS       | TEMPERATURE   |               |           |      | RAINFALL<br>(Inches) |
|----------------|---------------|---------------|-----------|------|----------------------|
|                | Daily<br>Max. | Daily<br>Min. | At 8 a.m. |      |                      |
|                |               |               | Dry.      | Wet. |                      |
| Sumburgh Head. | 49.5          | 41.6          | 45.9      | 44.4 | 4.33                 |
| Stornoway.     | 50.2          | 38.8          | 45.1      | 43.9 | 4.94                 |
| Wick.          | 51.8          | 40.0          | 46.0      | 44.3 | 2.94                 |
| Nairn.         | 51.4          | 40.7          | 44.6      | 42.5 | 2.38                 |
| Aberdeen.      | 52.1          | 41.3          | 45.5      | 43.5 | 2.88                 |
| Leith.         | 55.3          | 41.9          | 46.7      | 45.1 | 1.94                 |
| Shields.       | 53.2          | 43.1          | 47.3      | 45.5 | 2.46                 |
| York.          | 55.2          | 40.9          | 46.0      | 44.7 | 2.64                 |
| Ardrossan.     | 53.7          | 43.2          | 47.7      | 45.4 | 4.31                 |
| Donaghadee.    | 53.2          | 43.2          | 47.8      | 46.5 | 3.35                 |
| Holyhead.      | 51.9          | 47.5          | 50.4      | 48.6 | 4.53                 |
| Liverpool.     | 54.0          | 44.9          | 48.0      | 46.2 | 3.63                 |
| Valencia.      | 56.7          | 46.5          | 51.3      | 49.1 | 6.09                 |
| Roche's Point. | 55.6          | 46.4          | 50.4      | 48.6 | 4.17                 |
| Pembroke.      | 55.1          | 48.4          | 51.5      | 49.4 | 4.18                 |
| Scilly.        | 56.8          | 50.7          | 53.9      | 52.0 | 3.84                 |
| Hurst Castle.  | 57.7          | 48.8          | 51.5      | 50.5 | 3.24                 |
| Dover.         | 56.2          | 47.8          | 51.5      | 49.4 | 3.28                 |
| LONDON.        | 57.1          | 43.5          | 48.4      | 46.9 | 2.74                 |
| Oxford.        | 55.7          | 42.9          | 47.0      | 45.8 | 2.72                 |
| Cambridge.     | 57.0          | 41.6          | 46.6      | 45.7 | 2.86                 |
| Yarmouth.      | 54.9          | 45.1          | 49.5      | 48.2 | 2.97                 |

NOTE — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 10 years 1866—85.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.10 in. and more, over the west of Ireland, 30.0 in. and more over Portugal and the southwest of Spain.  
Lowest, about 29.50 in. over Central France, 29.4 in. over the Sound, and rather below 29.4 in. over the Baltic and Finland.  
Gradients are moderate for N. winds over our Islands, and slight over the Bay of Biscay.  
Barometer rising except over Central France — most in the north.

## TEMPERATURE

Highest, 50° at Lisbon, Biarritz and Nice, 49° at Valencia, and 46° at Malin Head.  
Lowest, 26° at Jöde, 28° at Haparanda and Helsingfors, 30° at Larnaca and Dungeness, 31° in London, 35° at Berlin, 36° at Brussels, and 39° at Paris.  
It is now rising decidedly over the north and northeast of Great Britain. Sharp frost occurred over our SE. countries early this morning.

## WIND

N<sup>W</sup> and NE<sup>W</sup> over our Islands — strong at several of our western and northern stations, light NW<sup>W</sup> in the south-east. A N<sup>W</sup> gale prevails over the Bay of Biscay, a S<sup>W</sup> and SE<sup>W</sup> breeze in the east of France, and SW<sup>W</sup> over Germany.

## WEATHER

Fine in the west, cloudy over Great Britain, with cold showers in the northeast and east. Over France and Germany it is dull, and in places rainy, while in Sweden, snow is falling very generally.

## SEA

Cold showers fell yesterday over the British Islands, except in the south; much rain fell at Cuxhaven, and in some parts of France.  
Rough over the North Sea, the Irish Sea and Bay of Biscay, moderate or slight elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression over the Sound is apparently filling<sup>up</sup>, while that noticed over the south of Sweden yesterday is moving away to Finland. The third system over France is well formed but not deep.

It is probable that all these disturbances will disappear shortly, and that the weather over England though cold will improve.

## FORECASTS

for the 24 hours ending at NOON on 14<sup>TH</sup> OCTOBER. 1887.

### DISTRICTS.

### FORECASTS.

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

NE<sup>W</sup> and N<sup>W</sup> breezes, fresh to moderate; some cold showers then finer.

----- D° ----- D° ----- D° -----

----- D° ----- D° ----- D° -----

Same as N° 5.

Same as N° 5.

N<sup>W</sup> breezes, moderate and light; some local showers then finer.

### DISTRICTS.

### FORECASTS.

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

N<sup>W</sup> winds, fresh, some showers, with bright intervals.

----- D° ----- D° ----- D° -----



----- D° ----- D° ----- D° -----

N<sup>W</sup> breezes, moderate; fine, cold.

----- D° ----- D° ----- D° -----

### 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.  | Dry. | Wet. | Wind. | Wes. | Sea. |               | Bar.  | Dry. | Wet. | Wind. | Wes. | Sea. |
|-------------------|-------|------|------|-------|------|------|---------------|-------|------|------|-------|------|------|
| Skudesnaes ...    | 29.36 | 46   | 44   | ENE 2 | 0    | 3    | Holyhead ...  | 29.70 | 43   | 38   | N 4   | bcp  | 5    |
| Sumburgh Head ... | 29.58 | 41   | 40   | N 6   | C    | 5    | Valencia ...  | 29.84 | 50   | 45   | N 4   | bv   | 5    |
| Stornoway ...     | 29.80 | 43   | 41   | N 6   | C    | 5    | Scilly ...    | 29.64 | 48   | 44   | N 8   | C    | 6    |
| Aberdeen ...      | 29.53 | 44   | 43   | N 4   | cp   | 4    | Dungeness ... | 29.64 | 46   | 40   | NW 2  | C    | 1    |
| Shields ...       | 29.56 | 44   | 40   | NW 4  | 0    | 4    | London ...    | 29.64 | 46   | 38   | NW 3  | bc   | *    |
| Ardrossan ...     | 29.68 | 48   | 44   | N 3   | bc   | 2    | Yarmouth ...  | 29.57 | 43   | 39   | NW 4  | bc   | 5    |
| Malin Head ...    | 29.77 | 44   | 43   | N 6   | C    | 5    | Jersey ...    | 29.68 | 47   | 42   | NW 3  | 0    | 3    |
| Mullaghmore ...   | 29.82 | 46   | 43   | NW 6  | cgp  | 4    | Rocheport ... | 29.94 | 53   | 47   | NW 5  | C    | 2    |
| Belmullet ...     | 29.90 | 46   | 43   | N 4   | bc   | *    |               |       |      |      |       |      |      |

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

The reports for yesterday morning showed that pressure varied from rather more than 29.2 ins. both over Lapland and the Iberian Peninsula to very little above 29 ins. over Denmark and the western part of the Baltic — the depression which lay over Denmark on the previous morning having been joined by the one that was noticed at the same time over Hungary. These two minima formed yesterday a large and complex disturbance the gradients of which (for NE<sup>2</sup> to NW<sup>2</sup> winds) were somewhat steep over the North Sea and Baltic. In the meantime shallow subsidiary disturbances were developed over the British Islands, the Netherlands, and north of France, and in this way the strong N<sup>2</sup> winds and the cold, squally, ensy weather of the main disturbance were caused to spread westwards over the whole of Northwestern Europe. Temperature was very low for the time of year — especially at the northern and inland stations — hard frosts being reported over Northern Europe and sharp ground frosts over the inland parts of the British Islands. The morning readings varied from 70° and more over the southern part of the Mediterranean and the Bosphorus to between 30° and 35° over many parts of England and to much below the freezing point over Lapland. The highest individual values were 75° at Constantinople, 72° at Malta and Brindisi, 70° at Sfax (Algeria). At nearly all the southern French stations it was below 50°. The lowest values were 21° at Haparanda, 24° at Uleaborg, 28° at Archangel, 30° at Oxford, 33° in London and 37° at Brussels and Paris.

Later in the day the depressions in the East began to move away, while the subsidiary disturbance near Holyhead at 8 a.m. moved southwards towards France.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for

Friday 14<sup>th</sup> October

1887.

Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

| STATIONS.                     | † YESTERDAY EVENING.                        |                    |       |                      |          |   | 8 A.M. TO DAY.                          |             |      |   |       |                      |          |                   | PAST 24 HOURS. |      |                           |
|-------------------------------|---|--------------------|-------|----------------------|----------|---|---|-------------|------|---|-------|----------------------|----------|-------------------|----------------|------|---------------------------|
|                               | Barometer<br>at 32° F.<br>and<br>Sea Level. | Temp. in<br>Shade. | WIND. |                      | Weather. | Reading<br>at 32° F.<br>and<br>Sea Level. | Difference<br>from 8 a.m.<br>yesterday. | SHADE TEMP. |      | Difference<br>from 8 a.m.<br>yesterday. | WIND. |                      | Weather. | Sea.<br>(0 to 9.) | SHADE TEMP.    |      | Amount<br>of<br>Rainfall. |
|                               |   |                    | Dir.  | Force.<br>(0 to 12.) |          |   |   | Dry.        | Wet. |   | Dir.  | Force.<br>(0 to 12.) |          |                   | Max.           | Min. |                           |
| Haparanda ..                  | 29.28                                       | 28                 | 2     | 0                    | S        | 29.82                                     | -06                                     | 26          | 26   | -2                                      | E     | 2                    | C        | *                 | 32             | 25   | 0.12                      |
| Hernösand ...                 | 29.31                                       | 25                 | 2     | 0                    | O        | 29.81                                     | -15                                     | 25          | 24   | -3                                      | N     | 4                    | O        | *                 | 34             | 23   | -                         |
| Stockholm ...                 | 29.33                                       | 42                 | NW    | 2                    | S        | 29.29                                     | -12                                     | 30          | 27   | -3                                      | 2     | 0                    | C        | *                 | 3              | 28   | 0.16                      |
| Wishby ...                    | 29.30                                       | 26                 | ENE   | 2                    | O        | 29.44                                     | -01                                     | 24          | 22   | -2                                      | ENE   | 2                    | C        | *                 | 30             | 21   | -                         |
| Bodö ...                      | 29.40                                       | 33                 | N     | 8                    | S        | 29.43                                     | -17                                     | 36          | 35   | -1                                      | NNE   | 8                    | bc       | 5                 | 37             | 28   | 0.24                      |
| Christiansund...              | 29.53                                       | 39                 | NW    | 7                    | O        | 29.39                                     | -20                                     | 34          | 31   | -5                                      | NW    | 7                    | C        | 4                 | 46             | ?    | -                         |
| Skudesnaes ...                | 29.41                                       | 40                 | NW    | 2                    | b        | 29.09                                     | -41                                     | 35          | 35   | -1                                      | NE    | 8                    | S        | 3                 | 39             | ?    | 0.08                      |
| Christiania Fjord<br>(Furder) | 29.43                                       | 37                 | NW    | 2                    | bc       | 29.04                                     | -40                                     | 35          | 33   | -4                                      | N     | 3                    | bc       | 8                 | 41             | ?    | 0.16                      |
| Skagen (The Scaw)             | 29.57                                       | 36                 | 2     | 0                    | b        | 29.24                                     | -25                                     | 37          | 36   | 0                                       | NW    | 4                    | ?        | *                 | 45             | 34   | 0.08                      |
| Faßö ...                      | 29.84                                       | 35                 | N     | 4                    | O        | 29.77                                     | -11                                     | 37          | 36   | -3                                      | N     | 4                    | C        | 4                 | 42             | 31   | 0.03                      |
| Sumburgh Head                 | 30.06                                       | 45                 | NE    | 4                    | O        | 29.98                                     | -10                                     | 38          | 37   | -2                                      | NE    | 4                    | O        | 4                 | 46             | 35   | 0.10                      |
| Stornoway ...                 | 29.92                                       | 43                 | N     | 5                    | bc       | 29.88                                     | -06                                     | 37          | 35   | -5                                      | N     | 6                    | O        | 3                 | 45             | 34   | 0.05                      |
| Wick ...                      | 30.01                                       | 43                 | NW    | 3                    | bc       | 29.91                                     | -10                                     | 38          | 36   | -4                                      | NW    | 3                    | O        | 3                 | 42             | 38   | -                         |
| Nairn ...                     | 29.93                                       | 42                 | NW    | 5                    | cp       | 29.79                                     | -10                                     | 38          | 35   | -6                                      | N     | 7                    | sq       | 5                 | 47             | 36   | 0.15                      |
| Aberdeen ...                  | 30.01                                       | 45                 | W     | 1                    | bc       | 29.82                                     | -10                                     | 43          | 39   | -1                                      | NW    | 4                    | C        | *                 | 52             | 40   | 0.01                      |
| Leith ...                     | 29.97                                       | 43                 | NW    | 2                    | bc       | 29.73                                     | -08                                     | 42          | 40   | -4                                      | N     | 4                    | ?        | 4                 | 49             | 37   | 0.08                      |
| Shields ...                   | 29.86                                       | 44                 | NW    | 6                    | bc       | 29.70                                     | +02                                     | 44          | 42   | -1                                      | NW    | 6                    | bc       | 6                 | 48             | 41   | 0.11                      |
| Spurn Head ...                | 29.95                                       | 43                 | N     | 5                    | ?        | 29.74                                     | -03                                     | 44          | 41   | +1                                      | W     | 1                    | O        | *                 | 49             | 36   | 0.11                      |
| York ...                      | 29.94                                       | 43                 | NNE   | 3                    | b        | 29.82                                     | +05                                     | 43          | 42   | +2                                      | W     | 4                    | O        | *                 | 49             | 36   | 0.01                      |
| Loughborough                  | 30.06                                       | 46                 | N     | 4                    | C        | 29.85                                     | -13                                     | 46          | 43   | +2                                      | N     | 6                    | bc       | 4                 | 50             | 42   | 0.01                      |
| Ardrossan ...                 | 30.12                                       | 47                 | N     | 4                    | C        | 29.94                                     | -12                                     | 47          | 47   | +1                                      | NW    | 5                    | bc       | 6                 | 48             | 45   | 0.04                      |
| Malin Head ...                | 30.18                                       | 48                 | NW    | 6                    | og       | 30.08                                     | -01                                     | 50          | 47   | +5                                      | NW    | 7                    | op       | 5                 | 51             | 44   | -                         |
| Mullaghmore ...               | 30.24                                       | 49                 | NNE   | 5                    | O        | 30.19                                     | +04                                     | 48          | 46   | +2                                      | NW    | 4                    | O        | *                 | 51             | 45   | 0.04                      |
| Belmullet ...                 | 30.09                                       | 48                 | NE    | 6                    | bc       | 29.91                                     | -08                                     | 46          | 43   | -2                                      | NNE   | 6                    | O        | 4                 | 51             | 43   | 0.02                      |
| Donaghadee ...                | 30.01                                       | 45                 | N     | 3                    | b        | 29.80                                     | -05                                     | 48          | 46   | +5                                      | NW    | 5                    | C        | *                 | 50             | 42   | 0.01                      |
| Barrow-in-Furness             | 30.03                                       | 45                 | N     | 2                    | bc       | 29.82                                     | -05                                     | 47          | 46   | +3                                      | W     | 7                    | op       | 5                 | 49             | 44   | 0.01                      |
| Liverpool (Bideon)            | 30.06                                       | 49                 | N     | 5                    | cp       | 29.93                                     | -00                                     | 48          | 46   | +2                                      | NW    | 8                    | og       | 7                 | 50             | 46   | -                         |
| Holyhead ...                  | 30.18                                       | 45                 | NW    | 2                    | C        | 30.13                                     | +04                                     | 45          | 43   | +15                                     | W     | 1                    | O        | *                 | 51             | 29   | -                         |
| Parsonstown ...               | 30.23                                       | 47                 | N     | 3                    | bc       | 30.25                                     | +12                                     | 50          | 46   | +1                                      | NW    | 3                    | O        | 3                 | 53             | 42   | -                         |
| Valencia ...                  | 30.16                                       | 48                 | NNE   | 3                    | b        | 30.17                                     | +12                                     | 48          | 46   | +6                                      | NW    | 4                    | C        | 3                 | 53             | 40   | -                         |
| Roche's Point...              | 30.06                                       | 45                 | NNE   | 5                    | C        | 30.04                                     | +14                                     | 48          | 46   | +4                                      | NW    | 5                    | cp       | 4                 | 50             | 44   | 0.02                      |
| Pembroke ...                  | 30.01                                       | 50                 | N     | 7                    | cp       | 30.10                                     | +21                                     | 50          | 47   | +2                                      | NW    | 5                    | O        | 4                 | 51             | 45   | 0.10                      |
| Scilly ...                    | 29.98                                       | 45                 | NW    | 2                    | b        | 30.04                                     | +19                                     | 45          | 43   | +3                                      | NW    | 3                    | C        | 2                 | 58             | 37   | -                         |
| Prawle Point ...              | 29.91                                       | 48                 | N     | 3                    | cp       | 30.02                                     | +25                                     | 50          | 45   | +5                                      | NW    | 2                    | C        | 2                 | 51             | 44   | 0.17                      |
| Jersey ...                    | 29.90                                       | 47                 | NNE   | 5                    | C        | 29.94                                     | +13                                     | 44          | 42   | +6                                      | NW    | 4                    | C        | 1                 | 48             | 36   | -                         |
| Hurst Castle ...              | 29.78                                       | 45                 | N     | 2                    | m        | 29.84                                     | +11                                     | 40          | 38   | +10                                     | NW    | 3                    | C        | 2                 | 48             | 29   | -                         |
| Dungeness ...                 | 29.89                                       | 45                 | N     | 4                    | cp       | 29.87                                     | +09                                     | 38          | 36   | +7                                      | W     | 2                    | O        | *                 | 47             | 31   | 0.03                      |
| London ...                    | 29.48                                       | 43                 | N     | 3                    | O        | 29.89                                     | +09                                     | 39          | 37   | -1                                      | W     | 2                    | ag       | *                 | 46             | 35   | -                         |
| Oxford ...                    | 29.89                                       | 40                 | N     | 3                    | bc       | 29.79                                     | +05                                     | 40          | 39   | -1                                      | W     | 2                    | cp       | *                 | 51             | 35   | 0.05                      |
| Cambridge ...                 | 29.76                                       | 46                 | NW    | 5                    | cp       | 29.72                                     | +06                                     | 39          | 37   | +1                                      | W     | 4                    | cm       | 5                 | 47             | 36   | 0.15                      |
| Yarmouth ...                  | 29.58                                       | 40                 | NW    | 3                    | ?        | 29.37                                     | -17                                     | 43          | 42   | 0                                       | W     | 6                    | ?        | *                 | 46             | 29   | 0.53                      |
| Cuxhaven ...                  | 29.70                                       | 40                 | SW    | 2                    | b        | 29.56                                     | -19                                     | 37          | 35   | -1                                      | W     | 2                    | O        | *                 | 48             | 32   | 0.04                      |
| Berlin ...                    | 29.76                                       | 37                 | 2     | 0                    | b        | 29.75                                     | -07                                     | 35          | 34   | 0                                       | SW    | 1                    | C        | *                 | 45             | 30   | -                         |
| Wiesbaden ...                 | 29.71                                       | 47                 | N     | 4                    | ?        | 29.57                                     | -06                                     | 48          | 46   | +2                                      | NW    | 8                    | ?        | 4                 | 48             | 45   | 0.43                      |
| Munich ...                    | 29.76                                       | 47                 | NW    | 4                    | m        | 29.76                                     | -02                                     | 41          | 41   | +5                                      | WSW   | 4                    | C        | *                 | 47             | 38   | 0.04                      |
| The Helder ...                | 29.76                                       | 47                 | NW    | 4                    | m        | 29.83                                     | +09                                     | 45          | 43   | +6                                      | N     | 7                    | C        | 5                 | 52             | 39   | 0.08                      |
| Brussels ...                  | 29.76                                       | 46                 | NE    | 4                    | O        | 30.12                                     | +27                                     | 44          | 42   | -10                                     | NE    | 3                    | O        | 3                 | 55             | 36   | 0.16                      |
| Cape Gris Nez...              | 29.94                                       | 48                 | NNE   | 7                    | C        | 30.11                                     | +35                                     | 48          | 44   | +3                                      | NW    | 4                    | b        | 4                 | 52             | 41   | -                         |
| Paris ...                     | 29.92                                       | 50                 | NW    | 8                    | C        | 30.06                                     | +34                                     | 46          | 44   | -1                                      | NW    | 7                    | b        | 3                 | 52             | 41   | -                         |
| Brest ...                     | 29.79                                       | 40                 | NW    | 3                    | ?        | 29.84                                     | +05                                     | 39          | 38   | +1                                      | NW    | 1                    | O        | *                 | 52             | 29   | 0.20                      |
| Lorient ...                   | 29.76                                       | 47                 | S     | 3                    | C        | 29.90                                     | +27                                     | 36          | 35   | -3                                      | NW    | 4                    | ?        | *                 | 54             | 34   | 0.04                      |
| Rochefort ...                 | 29.74                                       | 48                 | S     | 1                    | ?        | 29.65                                     | +13                                     | 47          | 45   | -3                                      | ENE   | 3                    | b        | 2                 | 61             | 41   | 0.20                      |
| Belfort ...                   | 29.90                                       | 50                 | NW    | 4                    | O        | 29.98                                     | +44                                     | 41          | 40   | -3                                      | NW    | 4                    | C        | *                 | 59             | 44   | -                         |
| Lyons ...                     | 29.95                                       | 51                 | N     | 11                   | ?        | 30.03                                     | +19                                     | 54          | 48   | +4                                      | NW    | 11                   | kl       | 3                 | 57             | 45   | 0.32                      |
| Nice ...                      | 30.08                                       | 57                 | NW    | 5                    | O        | 30.17                                     | +11                                     | 42          | 41   | -13                                     | E     | 1                    | b        | 4                 | 59             | 37   | 0.04                      |
| Perpignan ...                 | 30.08                                       | 57                 | NW    | 5                    | O        | 30.09                                     | +01                                     | 52          | 51   | +2                                      | NE    | 4                    | ?        | 2                 | 53             | ?    | 0.04                      |
| Biarritz ...                  |   |                    |       |                      |          |   |   |             |      |   |       |                      |          |                   |                |      |                           |
| Corunna ...                   |   |                    |       |                      |          |   |   |             |      |   |       |                      |          |                   |                |      |                           |
| Lisbon ...                    |   |                    |       |                      |          |   |   |             |      |   |       |                      |          |                   |                |      |                           |

For Explanation of Columns, see p. 4.

† Received too late for insertion in Charts.



# WEATHER CHARTS

for 8 a.m. on

Friday 11<sup>th</sup> OCTOBER.

1887.

## BAROMETER, WIND & 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.

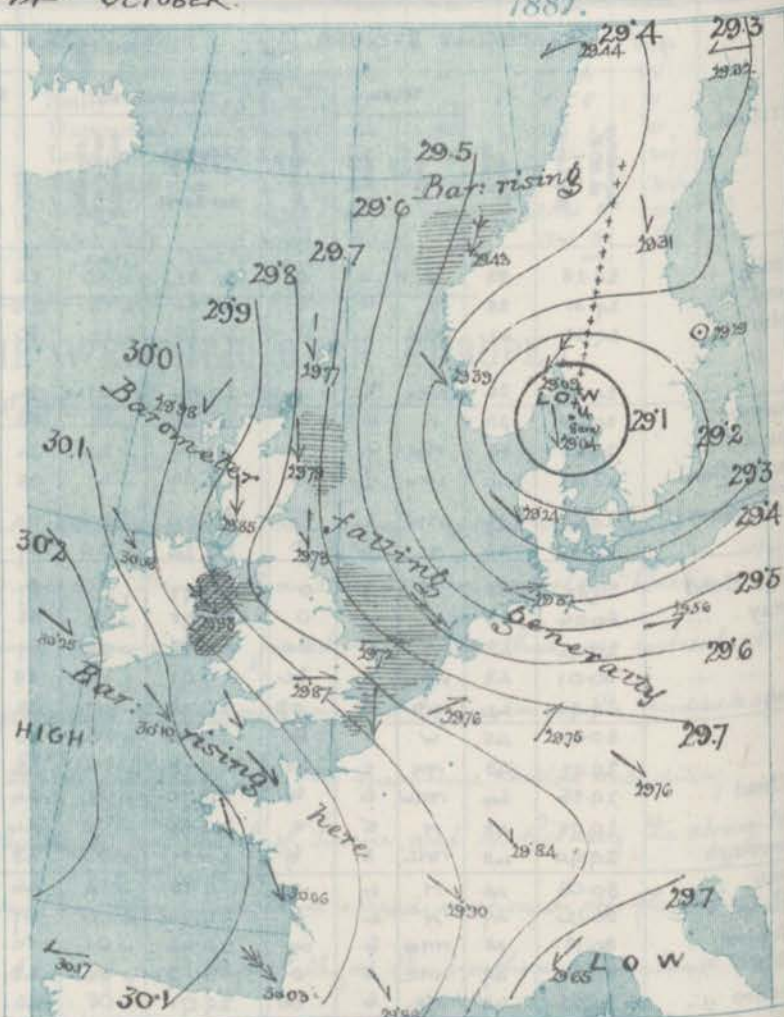
**Sea Disturbance**—where considerable is shown thus

— Rough. — High.

## MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of October.  
During the 10 Years 1871—1880.

| STATIONS      | MEAN READINGS. |
|---------------|----------------|
| Sumburgh Head | 29.685         |
| Stornoway     | 29.707         |
| Wick          | 29.719         |
| Nairn         | 29.788         |
| Aberdeen      | 29.748         |
| Leith         | 29.780         |
| Shields       | 29.821         |
| York          | 29.860         |
| Ardrossan     | 29.749         |
| Donaghadee    | 29.805         |
| Holyhead      | 29.830         |
| Liverpool     | 29.848         |
| Valencia      | 29.842         |
| Roche's Point | 29.848         |
| Pembroke      | 29.847         |
| Scilly        | 29.877         |
| Hurst Castle  | 29.894         |
| Dover         | 29.907         |
| LONDON        | 29.902         |
| Oxford        | 29.891         |
| Cambridge     | 29.894         |
| Yarmouth      | 29.889         |





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, Valencia 30.25 ins; Lisbon, Lorient, Scilly, and Mullaghmore about 30.10 ins;  
Lowest, Skagen 29.04 ins; Skudesnæs and Lushoven about 29.38 ins; Nice 29.65 ins.  
Gradient - rather steep over the British Isles and North Sea, slight over Bay of Biscay.  
Barometer falling - most in east and over Gulf of Genoa.

## TEMPERATURE

Highest, 54° at Biarritz, 52° at Lisbon, 50° at Jersey, Scilly, Valencia and Mullaghmore.  
Lowest, 24° to 26° over the northern parts of Norway and Sweden, 35° at Tander, the Scan, Nistadsen and Munich, and 38° in London.  
Thermometer falling again at our northern stations, and the fall seems to be spreading southwards.

## WIND

Strong to a moderate gale from the N<sup>th</sup> at several of our northern and northwestern stations.  
Moderate from NW. on our south and east coasts; blowing a gale from NW. at the Helder, and in the SW. of France, and from NE. at Tander and Christiansund.

## WEATHER

Cloudy but dry at our southern stations; dull, equally, and showery, (with sleet and snow in places) over the northern part of the Kingdom, rising in North Germany and at the Helder. Very unsettled generally.

## SEA

High at Holyhead, rough on our western and eastern coasts generally, moderate in the north, and at the Channel stations.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Two depressions have appeared during the night: the larger one over Denmark and the Sound, the smaller one over the Irish Sea and northwest of England. Both are moving southwards and in their rear strong N<sup>th</sup> winds are spreading over the Kingdom, with snow and cold rain squalls.

Our W<sup>th</sup>, S<sup>th</sup>, and E<sup>th</sup> coasts have therefore been warned.

## FORECASTS

for the 24 hours ending at NOON on 15<sup>th</sup> OCTOBER. 1887.

| DISTRICTS.         | FORECASTS.  | DISTRICTS.  | FORECASTS.   |
|--------------------|---|---|--|
| 0 SCOTLAND NORTH   | N <sup>th</sup> winds, strong; squally, snow showers, finer, but very cold at night.  | 6 SCOTLAND WEST   | Same as N°0  |
| 1 SCOTLAND EAST    | -----D°-----D°-----D°-----  | 7 ENGLAND N.W.  | Same as N°0  |
| 2 ENGLAND N.E.     | Same as N°5   | 8 ENGLAND S.W.  | Same as N°5  |
| 3 ENGLAND EAST     | Same as N°5   | 9 IRELAND NORTH   | N <sup>th</sup> winds, strong to a gale; squally, some snow showers. |
| 4 MIDLAND COUNTIES | Same as N°5   | 10 IRELAND SOUTH  | -----D°-----D°-----D°-----   |
| 5 ENGLAND SOUTH    | NW <sup>th</sup> to N <sup>th</sup> winds increasing to a gale; snow squalls, colder. | WARNINGS  |  |
|                    |   | The N. cone has been hoisted this morning in districts 2, 3, 5, 8, 9, and 10. |  |

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



# YESTERDAY'S 2 P.M. REPORTS.

|                   | Bar.  | Dry. | Wet. | Wind.  | Wen. | Sea. |               | Bar.  | Dry. | Wet. | Wind.  | Wen. | Sea. |
|-------------------|-------|------|------|--------|------|------|---------------|-------|------|------|--------|------|------|
| Skudesnaes ...    | 29.61 | 46   | 40   | N.W. 6 | c    | 3    | Holyhead ...  | 30.01 | 49   | 44   | N.E. 5 | c    | 5    |
| Sumburgh Head ... | 29.84 | 41   | 39   | N. 4   | c    | 5    | Valencia ...  | 30.18 | 53   | 47   | N. 4   | c    | 4    |
| Stornoway ...     | 30.09 | 46   | 43   | N.E. 4 | c    | 3    | Scilly ...    | 29.90 | 49   | 46   | N. 6   | c    | 6    |
| Aberdeen ...      | 29.94 | 46   | 42   | N.W. 6 | cp   | 5    | Dungeness ... | 29.77 | 47   | 44   | N. 3   | m    | 2    |
| Shields ...       | 29.90 | 48   | 45   | N. 5   | c    | 6    | London ...    | 29.78 | 48   | 44   | N.W. 4 | c    | 3    |
| Ardrossan ...     | 30.04 | 45   | 40   | N. 4   | bc   | 3    | Yarmouth ...  | 29.71 | 46   | 45   | N.W. 3 | cp   | 3    |
| Malin Head ...    | 30.12 | 47   | 45   | N. 4   | c    | 4    | Jersey ...    | 29.85 | 50   | 45   | N.W. 3 | c    | 3    |
| Mullaghmore ...   | 30.15 | 50   | 45   | N.W. 6 | c    | 4    | Rochefort ... | 29.86 | 48   | 44   | N.W. 8 | c    | 3    |
| Belmullet ...     | 30.21 | 51   | 45   | N.E. 4 | bc   | 0    |               |       |      |      |        |      |      |

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

The reports for yesterday morning showed that although areas of high readings were lying respectively over Russia and off the west of the British Islands the distribution of pressure over Europe was mainly cyclonic. The two barometric minima noticed over the north of Denmark and south of Scandinavia on the previous day, had moved north-eastwards, but a shallow depression had travelled from Wales to Central France, while another and still shallower disturbance had appeared over Eastern Austria. With these conditions the prevailing winds over Northern Europe were N<sup>W</sup> and fresh to strong in force, while over Russia and Germany they were chiefly S<sup>W</sup>, and moderate in force. In other regions a considerable variation in direction was occasioned by the depressions noticed above. Rain was falling in many parts of Southern and Central Europe, and snow in some of the northern districts while showers of cold rain or hail were reported over the British Islands. Temperature had risen several degrees in the west and north of our islands, and slightly in France, Austria and Russia, but fallen elsewhere, readings ranged from 70° and upwards in Southern Italy to 60° and upwards in Algeria and Southern Austria to 32° or less over Northern Europe and also in the south-east of England. The highest individual readings were 76° at Palermo, 72° at Brindisi, 67° at Sfax, 66° at Laghouat, and 64° at Oan and Algiers; the lowest were 26° at Rodö and Archangel, 28° at Haparanda, Hernösand, and Ullaborg, 30° at Parosution and Dungeness, 31° in London, and 35° at Munster, Cassel, Charleville and Dunkirk.

In the course of the day the shallow depression over France disappeared, but a new and deeper disturbance appeared over the N of Scandinavia. Temperature over England rose several degrees, and the minima reported at night were not nearly so low as those reported 24 hours previously.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for *Saturday 15<sup>th</sup> October 1887.*

*Issued by the Meteorological Office, 116, Victoria Street, London. R. H. SCOTT, Secretary.*

| 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. |  |
|                       |                                    |                 | 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.        | Min.           |                     |  |
| SCANDINAVIA.          |                                    |                 |       |                   |          |  |  |                                   |             |      |                                   |       |                   |          |                |             |                |                     |  |
| Haparanda ..          | 29.53                              | 28              | N     | 4                 | bc       |  | 29.71  | + .39                             | 18          | 18   | - 5                               | Z     | 0                 | o        | *              | 30          | ?              | Ins.                |  |
| Hernösand ..          | 29.66                              | 29              | Z     | 0                 | o        |  | 29.92  | + .61                             | 22          | 21   | - 3                               | Z     | 0                 | b        | *              | 30          | 19             | -                   |  |
| Stockholm ..          | 29.58                              | 32              | NW    | 2                 | s        |  | 29.87  | + .58                             | 86          | 35   | + 6                               | NNE   | 2                 | o        | *              | 36          | 25             | 0.04                |  |
| Wisby ..              |                                    |                 |       |                   |          |  |  |                                   |             |      |                                   |       |                   |          | *              |             |                |                     |  |
| Bodo ..               | 29.69                              | 28              | E     | 2                 | c        |  | 29.72  | + .28                             | 30          | 30   | + 6                               | ESE   | 2                 | s        | 1              | 30          | 21             | -                   |  |
| Christiansund...      | 29.76                              | 37              | SE    | 2                 | c        |  | 29.96  | + .53                             | 39          | 37   | + 3                               | SW    | 3                 | c        | 5              | 39          | 34             | 0.47                |  |
| Skudesnaes ..         | 29.68                              | 38              | NW    | 4                 | b        |  | 30.00  | + .61                             | 39          | 35   | + 5                               | N     | 2                 | e        | 2              | 43          | 34             | -                   |  |
| Christiania Fjord     | 29.54                              | 36              | NNE   | 3                 | b        |  | 29.93  | + .84                             | 34          | 31   | - 1                               | NNE   | 5                 | b        | 2              | 37          | 32             | -                   |  |
| (Fmder)               |                                    |                 |       |                   |          |  |  |                                   |             |      |                                   |       |                   |          |                |             |                |                     |  |
| Skagen (The Seaw)     | 29.43                              | 34              | ESE   | 8                 | o        |  | 29.80  | + .76                             | 38          | 37   | + 3                               | ESE   | 7                 | o        | 6              | ?           | 32             | 0.32                |  |
| Fano ..               | 29.43                              | 32              | NW    | 6                 | o        |  | 29.67  | + .43                             | 35          | 34   | - 2                               | N     | 5                 | c        | *              | 41          | 32             | 0.04                |  |
| BRITISH ISLANDS.      |                                    |                 |       |                   |          |  |  |                                   |             |      |                                   |       |                   |          |                |             |                |                     |  |
| Sumburgh Head         | 29.94                              | 39              | N     | 4                 | c        |  | 30.13  | + .36                             | 38          | 36   | + 1                               | N     | 2                 | c        | 3              | 43          | 35             | 0.03                |  |
| Stornoway ..          | 30.11                              | 38              | N     | 4                 | o        |  | 30.25  | + .29                             | 39          | 38   | + 1                               | N     | 4                 | o        | 3              | 41          | 34             | 0.02                |  |
| Wick ..               | 30.02                              | 40              | N     | 5                 | bc       |  | 30.22  | + .34                             | 39          | 38   | + 2                               | N     | 2                 | c        | 2              | 41          | 35             | 0.05                |  |
| Nairn ..              | 30.06                              | 40              | NW    | 3                 | bc       |  | 30.23  | + .32                             | 38          | 36   | 0                                 | W     | 1                 | bc       | 1              | 41          | 36             | 0.02                |  |
| Aberdeen...           | 29.95                              | 39              | NW    | 5                 | bp       |  | 30.18  | + .39                             | 38          | 37   | 0                                 | NW    | 4                 | b        | 3              | 43          | 36             | 0.19                |  |
| Leith ..              | 30.03                              | 41              | N     | 2                 | b        |  | 30.20  | + .38                             | 38          | 34   | - 5                               | N     | 1                 | bm       | *              | 47          | 34             | -                   |  |
| Shields ..            | 29.89                              | 39              | NW    | 5                 | bcl      |  | 30.09  | + .36                             | 40          | 39   | - 2                               | NW    | 4                 | op       | 5              | 44          | 36             | 0.68                |  |
| Spurn Head ..         | 29.78                              | 44              | NW    | 8                 | bc       |  | 29.99  | + .29                             | 46          | 43   | + 2                               | N     | 7                 | bcgpp    | 6              | 46          | 38             | 0.12                |  |
| York ..               | 29.88                              | 39              | N     | 3                 | bc       |  | 30.11  | + .37                             | 38          | 36   | - 6                               | NW    | 4                 | c        | *              | 47          | 34             | 0.14                |  |
| Loughborough          | 29.83                              | 40              | NW    | 3                 | b        |  | 30.10  | + .28                             | 39          | 37   | - 4                               | NW    | 4                 | b        | *              | 50          | 35             | 0.01                |  |
| GERMANY.              |                                    |                 |       |                   |          |  |  |                                   |             |      |                                   |       |                   |          |                |             |                |                     |  |
| Ardrossan ..          | 30.05                              | 44              | N     | 4                 | b        |  | 30.23  | + .38                             | 33          | 31   | - 13                              | E     | 1                 | b        | 1              | 44          | 29             | -                   |  |
| Malin Head ..         | 30.11                              | 44              | N     | 4                 | cqpp     |  | 30.29  | + .35                             | 44          | 44   | - 3                               | N     | 3                 | c        | 3              | 48          | 43             | 0.01                |  |
| Mullaghmore ..        | 30.14                              | 45              | N     | 6                 | cp       |  | 30.31  | + .23                             | 45          | 43   | - 5                               | NW    | 4                 | c        | 3              | 51          | 43             | 0.04                |  |
| Belmullet ..          | 30.18                              | 48              | N     | 5                 | o        |  | 30.34  | + .15                             | 46          | 44   | - 2                               | N     | 4                 | o        | *              | 52          | 45             | 0.04                |  |
| Donaghadee ..         | 30.05                              | 46              | NE    | 6                 | o        |  | 30.24  | + .33                             | 45          | 41   | - 1                               | NE    | 6                 | b        | 4              | 50          | 42             | 0.02                |  |
| FRANCE & NETHERLANDS. |                                    |                 |       |                   |          |  |  |                                   |             |      |                                   |       |                   |          |                |             |                |                     |  |
| Barrow-in-Furness     | 29.97                              | 41              | NW    | 3                 | b        |  | 30.19  | + .39                             | 39          | 36   | - 9                               | N     | 1                 | bc       | *              | 50          | 37             | -                   |  |
| Liverpool (Bidston)   | 29.97                              | 41              | N     | 3                 | b        |  | 30.19  | + .37                             | 41          | 38   | - 6                               | N     | 2                 | b        | 3              | 50          | 39             | 0.05                |  |
| Holyhead ..           | 30.00                              | 47              | NNE   | 5                 | oqj      |  | 30.21  | + .28                             | 48          | 42   | 0                                 | N     | 3                 | bc       | 3              | 52          | 44             | 0.01                |  |
| Parsonstown ..        | 30.12                              | 48              | NW    | 5                 | o        |  | 30.31  | + .18                             | 41          | 39   | - 4                               | Z     | 0                 | c        | *              | 53          | 38             | -                   |  |
| Valencia ..           | 30.19                              | 51              | NW    | 5                 | bcp      |  | 30.34  | + .09                             | 48          | 44   | - 2                               | NE    | 1                 | o        | 1              | 55          | 46             | 0.05                |  |
| SPAIN.                |                                    |                 |       |                   |          |  |  |                                   |             |      |                                   |       |                   |          |                |             |                |                     |  |
| Roche's Point...      | 30.08                              | 52              | NW    | 5                 | bc       |  | 30.28  | + .11                             | 45          | 42   | - 3                               | N     | 3                 | b        | 3              | 54          | 42             | -                   |  |
| Pembroke ..           | 29.98                              | 47              | N     | 5                 | r        |  | 30.22  | + .18                             | 46          | 44   | - 2                               | NNE   | 2                 | b        | 2              | 51          | 40             | 0.04                |  |
| Scilly ..             | 30.01                              | 53              | NW    | 7                 | o        |  | 30.20  | + .10                             | 49          | 46   | - 1                               | NNE   | 3                 | c        | 4              | 53          | 46             | 0.01                |  |
| Prawle Point ..       | 29.93                              | 47              | NW    | 4                 | c        |  | 30.18  | + .14                             | 44          | 39   | - 1                               | NW    | 3                 | b        | 2              | 50          | 32             | 0.01                |  |
| Jersey ..             | 29.86                              | 52              | NW    | 4                 | c        |  | 30.13  | + .11                             | 47          | 42   | - 3                               | NW    | 3                 | c        | 3              | 53          | 44             | 0.02                |  |
| ITALY.                |                                    |                 |       |                   |          |  |  |                                   |             |      |                                   |       |                   |          |                |             |                |                     |  |
| Hurst Castle ..       | 29.86                              | 44              | NNE   | 4                 | c        |  | 30.11  | + .17                             | 40          | 37   | - 4                               | NW    | 5                 | b        | 3              | 51          | 34             | 0.02                |  |
| Dungeness ..          | 29.73                              | 39              | N     | 4                 | c        |  | 29.96  | + .12                             | 38          | 37   | - 2                               | NW    | 5                 | b        | 3              | 47          | 34             | 0.05                |  |
| London ..             | 29.82                              | 41              | N     | 4                 | b        |  | 30.03  | + .16                             | 38          | 35   | 0                                 | NW    | 4                 | b        | *              | 49          | 34             | 0.02                |  |
| Oxford ..             | 29.95                              | 37              | W     | 4                 | b        |  | 30.11  | + .22                             | 38          | 35   | - 1                               | NW    | 4                 | b        | *              | 48          | 34             | 0.10                |  |
| Cambridge ..          | 29.54                              | 38              | N     | 4                 | b        |  | 30.03  | + .24                             | 39          | 38   | - 1                               | N     | 3                 | c        | *              | 49          | 34             | 0.03                |  |
| AFRICA.               |                                    |                 |       |                   |          |  |  |                                   |             |      |                                   |       |                   |          |                |             |                |                     |  |
| Yarmouth ..           | 29.69                              | 40              | NW    | 6                 | c        |  | 29.87  | + .15                             | 45          | 43   | + 6                               | NW    | 6                 | cqj      | 6              | 45          | 36             | 0.55                |  |
| Cuxhaven ..           | 29.29                              | 35              | NW    | 4                 | r        |  | 29.60  | + .23                             | 36          | 36   | - 7                               | NE    | 5                 | r        | *              | 41          | 35             | 0.80                |  |
| Berlin ..             | 29.39                              | 42              | WSW   | 6                 | o        |  | 29.62  | + .06                             | 37          | 36   | 0                                 | NW    | 1                 | o        | *              | 48          | 36             | 0.01                |  |
| Wiesbaden ..          |                                    |                 |       |                   |          |  | 29.71  | - .04                             | 39          | 36   | + 4                               | SW    | 2                 | o        | *              | 48          | ?              | 0.12                |  |
| Munich ..             | 29.65                              | 38              | W     | 6                 | o        |  | 29.67  | - .09                             | 31          | 30   | - 4                               | NW    | 6                 | s        | *              | 43          | 30             | 0.20                |  |
| ASIA.                 |                                    |                 |       |                   |          |  |  |                                   |             |      |                                   |       |                   |          |                |             |                |                     |  |
| The Helder ..         | 29.52                              | 46              | N     | 8                 | r        |  | 29.71  | + .14                             | 42          | 41   | - 6                               | NNE   | 7                 | r        | 4              | 48          | 41             | 0.47                |  |
| AMERICA.              |                                    |                 |       |                   |          |  |  |                                   |             |      |                                   |       |                   |          |                |             |                |                     |  |
| Brussels ..           |                                    |                 |       |                   |          |  |  |                                   |             |      |                                   |       |                   |          | *              |             |                |                     |  |
| Cape Gris Nez...      |                                    |                 |       |                   |          |  |  |                                   |             |      |                                   |       |                   |          | *              |             |                |                     |  |
| Paris ..              | 29.69                              | 44              | NNE   | 8                 | c        |  | 29.95  | + .08                             | 41          | 41   | - 4                               | N     | 9                 | c        | 7              | 48          | 39             | 0.08                |  |
| Brest ..              | 29.68                              | 45              | NW    | 5                 | r        |  | 29.89  |                                   | 39          | 37   |                                   | NW    | 3                 | o        | *              | 50          | 36             | 0.16                |  |
| Lorient ..            | 30.08                              | 50              | NW    | 7                 | o        |  | 30.17  | + .05                             | 40          | 38   | - 4                               | NE    | 4                 | b        | 4              | 55          | 37             | 0.08                |  |
| Rocheport ..          | 30.03                              | 51              | NW    | 8                 | o        |  | 30.14  | + .03                             | 44          | 40   | - 4                               | NE    | 5                 | b        | 3              | 54          | 43             | -                   |  |
| Belfort ..            | 30.06                              | 52              | NW    | 7                 | o        |  | 30.12  | + .06                             | 44          | 42   | - 2                               | N     | 7                 | b        | 2              | 55          | 39             | -                   |  |
| Lyons ..              |                                    |                 |       |                   |          |  |  |                                   |             |      |                                   |       |                   |          | *              |             |                |                     |  |
| Nice ..               | 29.92                              | 41              | W     | 3                 | o        |  | 29.91  | + .01                             | 35          | 33   | - 1                               | NW    | 5                 | c        | *              | 45          | 32             | 0.12                |  |
| Perpignan ..          | 29.63                              | 45              | ESE   | 1                 | b        |  | 29.50  | - .15                             | 48          | 40   | + 1                               | NW    | 7                 | b        | 5              | 57          | 39             | -                   |  |
| AFRICA.               |                                    |                 |       |                   |          |  |  |                                   |             |      |                                   |       |                   |          |                |             |                |                     |  |
| Biarritz ..           | 29.97                              | 50              | NW    | 4                 | bc       |  | 29.87  | - .11                             | 52          | 46   | + 11                              | NW    | 7                 | t        | *              | 57          |                | -                   |  |
| Corunna ..            | 30.15                              | 55              | NW    | 4                 | c        |  | 30.07  | + .04                             | 54          | 51   | 0                                 | N     | 8                 | r        | 4              | 57          | 50             | 0.16                |  |
| ASIA.                 |                                    |                 |       |                   |          |  |  |                                   |             |      |                                   |       |                   |          |                |             |                |                     |  |
| Lisbon ..             |                                    |                 |       |                   |          |  |  |                                   |             |      |                                   |       |                   |          |                |             |                |                     |  |
|                       | 30.11                              | 59              | NNE   | 4                 | b        |  | 30.10  | + .01                             | 52          | 47   | 0                                 | NNE   | 5                 | c        | 2              | 63          | 50             | 0.04                |  |



# WEATHER CHARTS

for 8 a.m. on

Saturday, 15<sup>th</sup> October,

1887.

## BAROMETER, WIND & SEA.

(Explanation of Map)

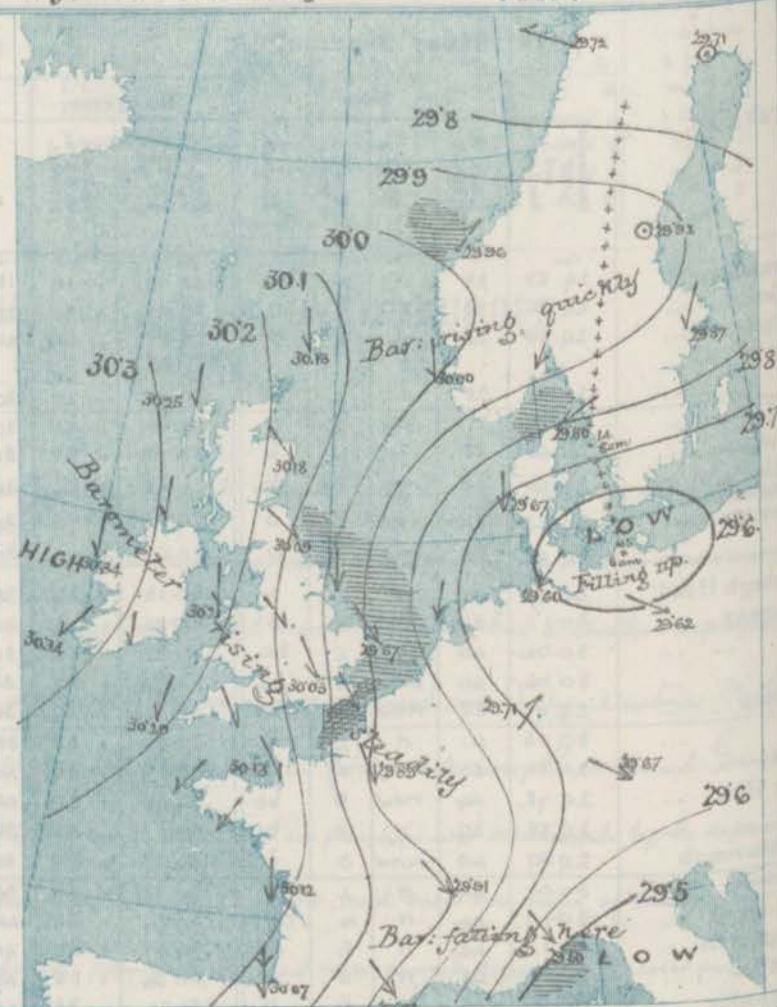
**Barometer** — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.  
**Wind** — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —  
 \* — force above 10, — force 8 to 10,  
 — force 5 to 7, — force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

**Sea Disturbance** — where considerable is shown thus  
 — Rough. — High.

## MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of October  
 During the 10 Years 1871—1880.

| STATIONS.      | MEAN READINGS. |
|----------------|----------------|
| Sumburgh Head. | 29.685         |
| Stornoway.     | 29.707         |
| Wick.          | 29.718         |
| Nairn.         | 29.788         |
| Aberdeen.      | 29.748         |
| Leith.         | 29.780         |
| Shields.       | 29.821         |
| York.          | 29.860         |
| Ardrossan.     | 29.749         |
| Donaghadee.    | 29.805         |
| Holyhead.      | 29.830         |
| Liverpool.     | 29.848         |
| Valencia.      | 29.842         |
| Roche's Point. | 29.843         |
| Pembroke.      | 29.847         |
| Scilly.        | 29.877         |
| Hurst Castle.  | 29.894         |
| Dover.         | 29.907         |
| LONDON.        | 29.902         |
| Oxford.        | 29.891         |
| Cambridge.     | 29.894         |
| Yarmouth.      | 29.889         |



## TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

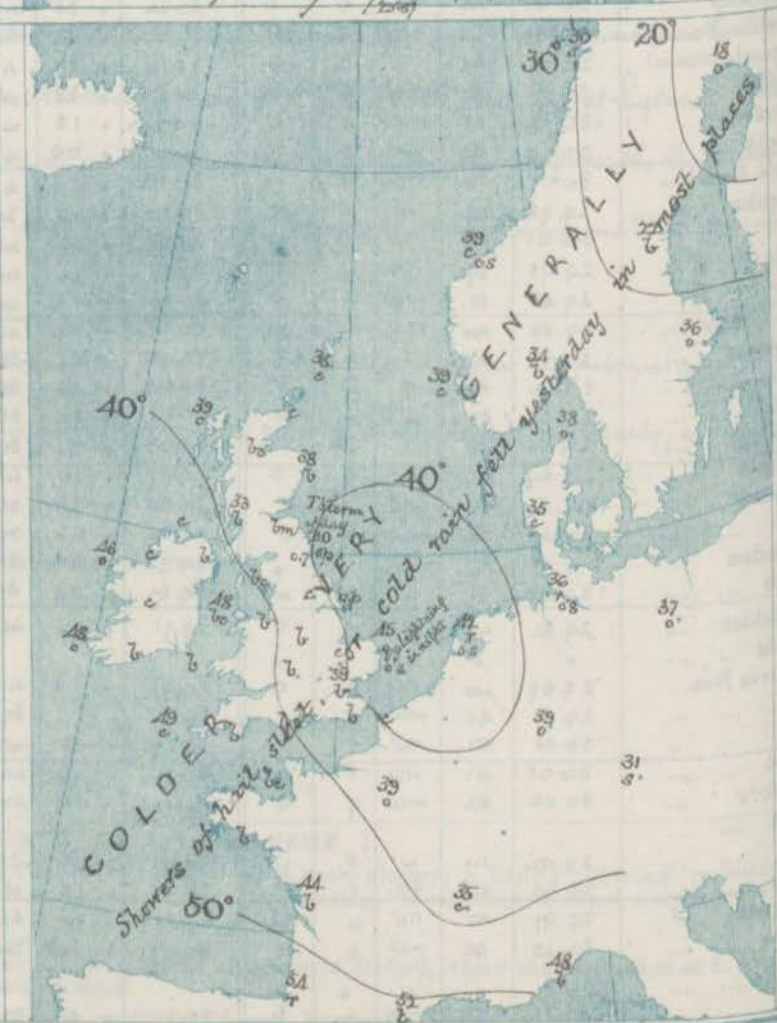
**Temperature** — Isotherms are drawn for each 10° changes since previous morning are stated in words.  
**Weather** — is shown by Letters of the Beaufort Scale.  
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more,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

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of October

| STATIONS       | TEMPERATURE  |               |                 |                 | RAINFALL.<br>(Inches) |
|----------------|--------------|---------------|-----------------|-----------------|-----------------------|
|                | Daily<br>Max | Daily<br>Min. | Average<br>Dry. | Average<br>Wet. |                       |
| Sumburgh Head. | 49.5         | 41.6          | 45.9            | 44.4            | 4.33                  |
| Stornoway.     | 50.2         | 38.8          | 45.1            | 43.9            | 4.94                  |
| Wick.          | 51.8         | 40.0          | 46.0            | 44.3            | 2.94                  |
| Nairn.         | 51.4         | 40.7          | 44.6            | 42.5            | 2.38                  |
| Aberdeen.      | 52.1         | 41.3          | 45.5            | 43.5            | 2.88                  |
| Leith.         | 55.3         | 41.9          | 46.7            | 45.1            | 1.94                  |
| Shields.       | 53.2         | 43.1          | 47.3            | 45.5            | 2.46                  |
| York.          | 55.2         | 40.9          | 46.0            | 44.7            | 2.64                  |
| Ardrossan.     | 53.7         | 43.2          | 47.7            | 45.4            | 4.31                  |
| Donaghadee.    | 53.2         | 43.2          | 47.8            | 46.8            | 3.35                  |
| Holyhead.      | 54.9         | 47.5          | 50.4            | 48.6            | 4.53                  |
| Liverpool.     | 54.0         | 44.9          | 48.0            | 46.2            | 3.62                  |
| Valencia.      | 56.7         | 48.5          | 51.3            | 49.1            | 6.09                  |
| Roche's Point. | 55.6         | 46.4          | 50.4            | 48.6            | 4.17                  |
| Pembroke.      | 55.1         | 48.4          | 51.5            | 49.4            | 4.13                  |
| Scilly.        | 56.8         | 50.7          | 53.9            | 52.0            | 3.84                  |
| Hurst Castle.  | 57.7         | 46.8          | 51.5            | 50.5            | 3.24                  |
| Dover.         | 56.2         | 47.8          | 51.5            | 49.4            | 3.28                  |
| LONDON.        | 57.1         | 43.5          | 48.4            | 46.9            | 2.74                  |
| Oxford.        | 55.7         | 42.9          | 47.0            | 45.8            | 2.72                  |
| Cambridge.     | 57.0         | 41.6          | 46.6            | 45.7            | 2.36                  |
| Yarmouth.      | 54.9         | 45.1          | 49.5            | 48.2            | 2.97                  |

NOTE — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 10 years 1866—85





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.24 ins: to 30.34 ins: over Ireland, 30.12 ins: at Rochefort.  
 Lowest, 29.50 ins: at Nice, 29.60 ins: and less over North Germany, 29.67 ins: at Munich, 29.72 ins: at Rodö.  
 Gradients, still rather steep, but decreasing over the North Sea, slight in the west.  
 Barometer rising generally, most over the North Sea. The depression over the North Germany is filling up; that over the Gulf of Genoa is growing deeper.

## TEMPERATURE

Highest, 54° at Biarritz, 52° at Lisbon and Perpignan, and 48° at Valence.  
 Lowest, 18° at Haparanda, 22° at Helsingfors, 30° at St. Petersburg, 31° at Munich, 33° at Anderson, 37° at Berlin, 38° in London and 39° at Hong Kong.  
 It has fallen greatly over our Islands since yesterday, and frost occurred on the ground at the inland stations early this morning.

## WIND

N<sup>2</sup> over the British Islands and France — variable to the eastward of the North Sea.  
 Strong to gale over the North Sea and Bay of Biscay. Moderate at our N<sup>2</sup> W<sup>2</sup>, and SW stations.  
 At Christianund the wind has backed to SW.

## WEATHER

Cloudy, squally, and showery over the North Sea, Holland, and the southwest of France, with thunder at Perpignan.  
 Fair and dry over the Central, south-western, western, and northern parts of our Islands.  
 Showers of sleet, hail and rain fell pretty generally yesterday and thunderstorms on our North Sea coasts.

## SEA

Still rough in the south-east and east, but has gone down considerably elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

With the present distribution of pressure the wind is likely to continue very strong at our eastern stations throughout the day, but to be light or moderate elsewhere. The warning signals have therefore been lowered except on our East and south-west coasts.

## FORECASTS

for the 24 hours ending at NOON, on 16<sup>th</sup> OCTOBER 1887.

### DISTRICTS.

### FORECASTS.

|   |                  |   |
|---|------------------|---|
| 0 | SCOTLAND NORTH   | N <sup>2</sup> breezes, moderate or light; cold, fair.                              |
| 1 | SCOTLAND EAST    | — D° — D° — D° —  |
| 2 | ENGLAND N.E.     | N <sup>2</sup> breezes, strong to moderate; squally with cold showers then finer.   |
| 3 | ENGLAND EAST     | — D° — D° — D° —  |
| 4 | MIDLAND COUNTIES | Same as N° 5  |
| 5 | ENGLAND SOUTH    | N <sup>2</sup> winds, fresh to light; some local showers, fine and frosty at night. |

### DISTRICTS.

### FORECASTS.

|    |               |   |
|----|---------------|---|
| 6  | SCOTLAND WEST | N <sup>2</sup> breezes, fresh to light; some showers fine and very cold at night. |
| 7  | ENGLAND N.W.  | — D° — D° — D° —  |
| 8  | ENGLAND S.W.  | — D° — D° — D° —  |
| 9  | IRELAND NORTH | N <sup>2</sup> breezes, moderate; fair, cold.                                     |
| 10 | IRELAND SOUTH | — D° — D° — D° —  |

### WARNINGS

The signals hoisted yesterday have been lowered this morning except in districts 2 and 3.

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.  | Dry. | Wet. | Wind. | Wes.  | Sea. |               | Bar.  | Dry. | Wet. | Wind. | Wes.  | Sea. |
|-------------------|-------|------|------|-------|-------|------|---------------|-------|------|------|-------|-------|------|
| Skudesnaes ...    | 29.50 | 42   | 36   | N 6   | e     | 5    | Holyhead ...  | 29.92 | 47   | 44   | N 6   | c g p | 5    |
| Sumburgh Head ... | 29.84 | 41   | 39   | N 5   | bc    | 5    | Valencia ...  | 30.20 | 53   | 49   | W 7   | o p   | 5    |
| Stornoway ...     | 30.07 | 41   | 39   | N 4   | e     | 4    | Scilly ...    | 30.05 | 52   | 49   | W 7   | o u   | 6    |
| Aberdeen ...      | 29.87 | 42   | 39   | N 6   | bc g  | 6    | Dungeness ... | 29.68 | 46   | 45   | W 5   | e     | 4    |
| Shields ...       | 29.81 | 43   | 40   | W 5   | e     | 6    | London ...    | 29.74 | 42   | 40   | W 5   | g g p | 6    |
| Ardrossan ...     | 29.97 | 45   | 40   | N 5   | o     | 4    | Yarmouth ...  | 29.63 | 44   | 40   | W 6   | c g p | 4    |
| Malin Head ...    | ?     | 46   | 45   | W 5   | o     | 5    | Jersey ...    | 29.94 | 52   | 47   | W 4   | o     | 4    |
| Mullaghmore ...   | 30.07 | 49   | 47   | W 6   | c g p | 5    | Rocheport ... | 30.10 | 55   | 50   | W 5   | e     | 2    |
| Belmullet ...     | 30.16 | 52   | 48   | W 7   | e     | *    |               |       |      |      |       |       |      |

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

The reports for yesterday morning showed that while an area of high readings (30.2 ins. and upwards) existed to the westward of our Islands, three well defined depressions were lying over various parts of the Continent. The largest and most important of these had its centre off the north of Denmark to which position it had advanced from the N<sup>W</sup> but a shallow disturbance was found over the south of Finland, while another lay over the Gulf of Genoa. With these conditions strong winds from N. or NW. were reported over the whole of Western Europe, with gales at some of the more northern stations. In Germany, however, the wind was light or moderate from the S<sup>W</sup> and on the shore of the Baltic it was moderate to strong from the SW<sup>W</sup>, while in Spain and Algeria variable airs were reported. Cloudy weather prevailed very generally, with rain or passing showers in many places and snow at some of the northern stations. Temperature had risen somewhat in the south of our Islands, the north of France, and the Netherlands, as well as at several of the German and Russian stations, but fallen elsewhere; readings ranged from 70° and upwards in the south of Italy and from 55° and upwards over Spain and Algeria to 32° or less over Northern Europe. The highest individual readings were 73° at Palermo, 70° at Malta, 68° at Brindisi, 59° at Algiers, La Calle and Naples, and 55° at Cagliari; the lowest were 24° at Rode, 25° at Helsingfors, 26° at Haparanda and Uleaborg, 28° at Cresser and 30° at Stockholm.

In the course of the day the depression off the north of Denmark continued to move southwards and as it did so the wind on our east coasts increased to a strong gale from the N<sup>W</sup>. Sharp squalls with rain hail and sleet were experienced in all parts of the Kingdom, with thunder and lightning in the east.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for Sunday 16<sup>th</sup> OCTOBER 1887.

Issued by the Meteorological Office, 116, Victoria Street, London, W. H. SCOTT, Secretary.

| STATIONS.                  | + YESTERDAY EVENING.               |                 |        |                   |          |   | 8 A.M. TO DAY. |      |        |                   |                   |          |                |             |      |                     | PAST 24 HOURS. |  |  |
|----------------------------|------------------------------------|-----------------|--------|-------------------|----------|---|----------------|------|--------|-------------------|-------------------|----------|----------------|-------------|------|---------------------|----------------|--|--|
|                            | Barometer at 3 P.M. and Sea Level. | Temp. in Shade. | WIND.  |                   | Weather. | Barometer. Reading at 8 P.M. and Sea Level. | SHADE TEMP.    |      | WIND.  |                   | Force. (0 to 12.) | Weather. | Sea. (0 to 9.) | SHADE TEMP. |      | Amount of Rainfall. |                |  |  |
|                            |                                    |                 | Dirac. | Force. (0 to 12.) |          |   | Dry.           | Wet. | Dirac. | Force. (0 to 12.) |                   |          |                | Max.        | Min. |                     |                |  |  |
| SCANDINAVIA.               |                                    |                 |        |                   |          |   |                |      |        |                   |                   |          |                |             |      |                     |                |  |  |
| Haparanda ..               | 29.82                              | 29              | Z      | 0                 | 0        | 29.84                                       | + 13           | 26   | 26     | + 8               | Z                 | 0        | 0              | 32          | ?    | —                   |                |  |  |
| Hernösand ...              | 30.00                              | 31              | Z      | 0                 | 0        | 29.94                                       | + 02           | 37   | 35     | + 15              | W                 | 2        | 0              | ?           | 18   | —                   |                |  |  |
| Stockholm ...              | 30.07                              | 32              | N      | 2                 | bc       | 30.08                                       | + 21           | 31   | 27     | — 5               | Z                 | 0        | 0              | 41          | 30   | —                   |                |  |  |
| Wisby ...                  |                                    |                 |        |                   |          |   |                |      |        |                   |                   |          |                |             |      |                     |                |  |  |
| Bodo ...                   | 29.71                              | 36              | SE     | 2                 | r        | 29.79                                       | + 07           | 40   | 39     | + 10              | SSW               | 2        | 0              | ?           | 28   | 0.75                |                |  |  |
| Christiansund...           | 30.06                              | 40              | SW     | 6                 | r        | 30.02                                       | + 06           | 41   | 38     | + 2               | SSW               | 4        | 0              | 41          | 37   | 0.35                |                |  |  |
| Skudesnes ...              | 30.16                              | 41              | Z      | 0                 | b        | 30.07                                       | + 07           | 41   | 40     | + 2               | Z                 | 0        | 0              | 30          | 39   | —                   |                |  |  |
| Christiania Fjord (Farder) | 30.10                              | 42              | N      | 2                 | bc       | 30.10                                       | + 17           | 39   | 36     | + 5               | NNE               | 2        | 0              | 43          | ?    | —                   |                |  |  |
| Skagen (The Seaw)          | 30.09                              | 40              | NE     | 1                 | bc       | 30.12                                       | + 32           | 37   | 36     | — 1               | Z                 | 0        | 0              | 44          | 36   | —                   |                |  |  |
| Faßø ...                   | 30.13                              | 40              | N      | 4                 | 0        | 30.18                                       | + 51           | 39   | 38     | + 4               | WSW               | 1        | 0              | 45          | ?    | —                   |                |  |  |
| BRITISH ISLANDS.           |                                    |                 |        |                   |          |   |                |      |        |                   |                   |          |                |             |      |                     |                |  |  |
| Sumburgh Head              | 30.15                              | 41              | NW     | 1                 | 0        | 30.13                                       | + 00           | 47   | 46     | + 9               | W                 | 3        | 0              | 47          | 36   | 0.05                |                |  |  |
| Stornoway ...              | 30.29                              | 40              | SW     | 3                 | om       | 30.29                                       | + 04           | 48   | 48     | + 9               | SW                | 3        | 0              | 45          | 32   | 0.06                |                |  |  |
| Wick ...                   | 30.26                              | 42              | NW     | 2                 | 0        | 30.26                                       | + 04           | 48   | 45     | + 7               | NW                | 3        | 0              | 47          | 35   | 0.02                |                |  |  |
| Nairn ...                  | 30.29                              | 43              | W      | 2                 | c        | 30.29                                       | + 06           | 45   | 45     | + 7               | SW                | 2        | 0              | 47          | 36   | —                   |                |  |  |
| Aberdeen...                | 30.27                              | 39              | NW     | 1                 | b        | 30.20                                       | + 12           | 43   | 41     | + 5               | W                 | 1        | bc             | 45          | 37   | —                   |                |  |  |
| Leith ...                  | 30.31                              | 39              | NW     | 1                 | bc       | 30.38                                       | + 18           | 41   | 38     | + 3               | W                 | 1        | cm             | 52          | 36   | —                   |                |  |  |
| Shields ...                | 30.28                              | 43              | NNW    | 3                 | p        | 30.37                                       | + 28           | 32   | 31     | — 8               | W                 | 2        | 0              | 45          | 31   | 0.21                |                |  |  |
| Spurn Head ...             | 30.19                              | 46              | NNE    | 5                 | bc       | 30.37                                       | + 38           | 42   | 40     | — 4               | NW                | 4        | 0              | 49          | 40   | 0.04                |                |  |  |
| York ...                   | 30.25                              | 44              | NNW    | 1                 | 0        | 30.41                                       | + 30           | 36   | 35     | — 2               | WNW               | 1        | 0              | 48          | 30   | 0.03                |                |  |  |
| Loughborough               | 30.25                              | 43              | NNW    | 2                 | c        | 30.45                                       | + 35           | 28   | 28     | — 11              | ENE               | 1        | 0              | 57          | 28   | —                   |                |  |  |
| Ardrrossan ...             | 30.31                              | 43              | N      | 1                 | c        | 30.39                                       | + 16           | 42   | 42     | + 10              | E                 | 1        | 0              | 50          | 32   | —                   |                |  |  |
| Malin Head ...             | 30.34                              | 46              | N      | 3                 | 0        | 30.42                                       | + 13           | 47   | 46     | + 3               | WNW               | 2        | 0              | 47          | 44   | 0.01                |                |  |  |
| Mullaghmore ...            | 30.36                              | 47              | N      | 4                 | 0        | 30.46                                       | + 15           | 45   | 45     | 0                 | S                 | 2        | 0              | 49          | 43   | 0.03                |                |  |  |
| Belmullet ...              | 30.39                              | 45              | NNE    | 2                 | c        | 30.50                                       | + 16           | 46   | 45     | 0                 | SSW               | 2        | 0              | 51          | 42   | 0.04                |                |  |  |
| Donaghadee ...             | 30.30                              | 46              | NE     | 5                 | c        | 30.42                                       | + 18           | 42   | 41     | — 3               | W                 | 4        | 0              | 48          | 42   | —                   |                |  |  |
| Barrow-in-Furness          | 30.28                              | 43              | N      | 1                 | b        | 30.39                                       | + 20           | 39   | 37     | 0                 | ENE               | 2        | 0              | 50          | 35   | —                   |                |  |  |
| Liverpool (Bidston)        | 30.29                              | 45              | NW     | 2                 | b        | 30.41                                       | + 22           | 42   | 39     | + 1               | WSW               | 2        | 0              | 47          | 40   | —                   |                |  |  |
| Holyhead ...               | 30.31                              | 47              | N      | 1                 | bc       | 30.44                                       | + 23           | 47   | 43     | — 1               | NW                | 3        | 0              | 49          | 40   | —                   |                |  |  |
| Parsonstown ...            | 30.27                              | 45              | Z      | 0                 | 0        | 30.49                                       | + 18           | 42   | 41     | + 1               | Z                 | 0        | 0              | 47          | 39   | —                   |                |  |  |
| Valencia ...               | 30.35                              | 50              | NE     | 2                 | 0        | 30.51                                       | + 17           | 47   | 44     | — 1               | E                 | 1        | 0              | 51          | 45   | —                   |                |  |  |
| Roche's Point...           | 30.37                              | 46              | NE     | 3                 | c        | 30.50                                       | + 22           | 45   | 42     | 0                 | NNE               | 2        | 0              | 50          | 44   | —                   |                |  |  |
| Pembroke ...               | 30.29                              | 45              | NNE    | 2                 | b        | 30.45                                       | + 23           | 42   | 42     | — 3               | NE                | 2        | 0              | 50          | 41   | —                   |                |  |  |
| Scilly ...                 | 30.25                              | 50              | N      | 4                 | c        | 30.42                                       | + 22           | 51   | 48     | + 2               | Z                 | 0        | 0              | 51          | 45   | —                   |                |  |  |
| Prawle Point ...           | 30.26                              | 45              | NW     | 3                 | b        | 30.46                                       | + 28           | 44   | 41     | 0                 | N                 | 4        | 0              | 56          | 33   | —                   |                |  |  |
| Jersey ...                 | 30.18                              | 50              | N      | 3                 | bc       | 30.43                                       | + 30           | 51   | 47     | + 4               | E                 | 3        | 0              | 52          | 45   | —                   |                |  |  |
| Hurst Castle ...           | 30.20                              | 45              | NNE    | 4                 | b        | 30.44                                       | + 33           | 40   | 38     | 0                 | NE                | 2        | 0              | 51          | 38   | —                   |                |  |  |
| Dungeness ...              | 30.03                              | 46              | N      | 5                 | bc       | 30.36                                       | + 40           | 38   | 38     | 0                 | N                 | 3        | 0              | 49          | 35   | 0.06                |                |  |  |
| London ...                 | 30.17                              | 44              | N      | 4                 | bc       | 30.42                                       | + 39           | 37   | 36     | — 1               | NW                | 1        | 0              | 49          | 34   | 0.03                |                |  |  |
| Oxford ...                 | 30.27                              | 43              | NNW    | 4                 | bc       | 30.45                                       | + 34           | 32   | 31     | — 6               | Z                 | 0        | 0              | 49          | 31   | —                   |                |  |  |
| Cambridge ...              | 30.19                              | 41              | N      | 1                 | b        | 30.43                                       | + 40           | 38   | 38     | — 1               | N                 | 1        | 0              | 49          | 33   | 0.08                |                |  |  |
| Yarmouth ...               | 30.09                              | 47              | N      | 7                 | og       | 30.34                                       | + 47           | 42   | 42     | — 2               | NW                | 3        | 0              | 45          | 40   | 0.04                |                |  |  |
| Cuxhaven ...               | 30.02                              | 37              | NE     | 1                 | b        | 30.18                                       | + 58           | 44   | 40     | + 5               | N                 | 3        | 0              | 43          | ?    | —                   |                |  |  |
| Berlin ...                 | 30.00                              | 38              | WNW    | 3                 | b        | 30.11                                       | + 49           | 41   | 41     | + 4               | NW                | 3        | 0              | 45          | 37   | —                   |                |  |  |
| Wiesbaden ...              | *                                  | *               | *      | *                 | *        | 30.27                                       | + 56           | 35   | 32     | — 4               | N                 | 2        | 0              | 41          | 30   | —                   |                |  |  |
| Munich ...                 | 29.93                              | 31              | Z      | 0                 | b        | 30.22                                       | + 45           | 30   | 28     | — 1               | NW                | 3        | 0              | 36          | 28   | 0.04                |                |  |  |
| GERMANY.                   |                                    |                 |        |                   |          |   |                |      |        |                   |                   |          |                |             |      |                     |                |  |  |
| The Helder ...             | 30.14                              | 41              | E      | 1                 | b        | 30.26                                       | + 55           | 47   | 45     | + 5               | NNW               | 1        | 0              | ?           | 37   | 0.47                |                |  |  |
| Brussels ...               | *                                  | *               | *      | *                 | *        | 30.36                                       |                | 32   | 31     |                   | NE                | 1        | 0              | 43          | 31   | 0.20                |                |  |  |
| Cape Gris Nez...           | 30.02                              | 47              | NE     | 9                 | r        | 30.35                                       | + 44           | 41   | 39     | 0                 | S                 | 1        | 0              | 50          | 34   | 0.08                |                |  |  |
| Paris ...                  | 29.96                              | 41              | NNW    | 5                 | r        | 30.36                                       | + 47           | 31   | 31     | — 8               | NNW               | 4        | 0              | 45          | ?    | 0.08                |                |  |  |
| Brest ...                  | 30.25                              | 48              | NE     | 4                 | b        | 30.39                                       | + 22           | 42   | 41     | + 2               | ENE               | 1        | 0              | 55          | 37   | —                   |                |  |  |
| Lorient ...                | 30.19                              | 50              | NNE    | 5                 | b        | 30.39                                       | + 25           | 45   | 42     | + 1               | NE                | 4        | 0              | 54          | 41   | —                   |                |  |  |
| Rochefort ...              | 30.15                              | 53              | NNW    | 7                 | b        | 30.34                                       | + 22           | 38   | 36     | — 6               | NE                | 7        | 0              | 54          | ?    | —                   |                |  |  |
| Belfort ...                |                                    |                 |        |                   |          |   |                |      |        |                   |                   |          |                |             |      |                     |                |  |  |
| Lyons ...                  | 29.95                              | 42              | WNW    | 4                 | c        | 30.14                                       | + 23           | 32   | 31     | — 3               | NNW               | 7        | 0              | ?           | 30   | —                   |                |  |  |
| Nice ...                   | 29.55                              | 47              | NNW    | 5                 | bc       | 29.76                                       | + 26           | 40   | 35     | — 5               | E                 | 3        | 0              | 55          | 39   | —                   |                |  |  |
| Perpignan ...              | 30.02                              | 48              | NW     | 5                 | b        | 30.08                                       | + 34           | 42   | 37     | — 10              | NW                | 5        | 0              | 55          | 37   | 0.16                |                |  |  |
| Biarritz ...               | 30.15                              | 53              | NE     | 5                 | bc       | 30.25                                       | + 18           | 44   | 41     | — 10              | E                 | 5        | 0              | 57          | 41   | 0.12                |                |  |  |
| Corunna ...                | *                                  | *               | *      | *                 | *        | 30.17                                       | — 02           | 56   | 50     | + 10              | NE                | 7        | 0              | 61          | 45   | —                   |                |  |  |
| Lisbon ...                 | 30.03                              | 61              | NNW    | 7                 | b        | 30.05                                       | — 05           | 57   | 47     | — 1               | SE                | 5        | 0              | 64          | 48   | —                   |                |  |  |

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on

Sunday

16<sup>th</sup> October

1887.

## BAROMETER, WIND & 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.

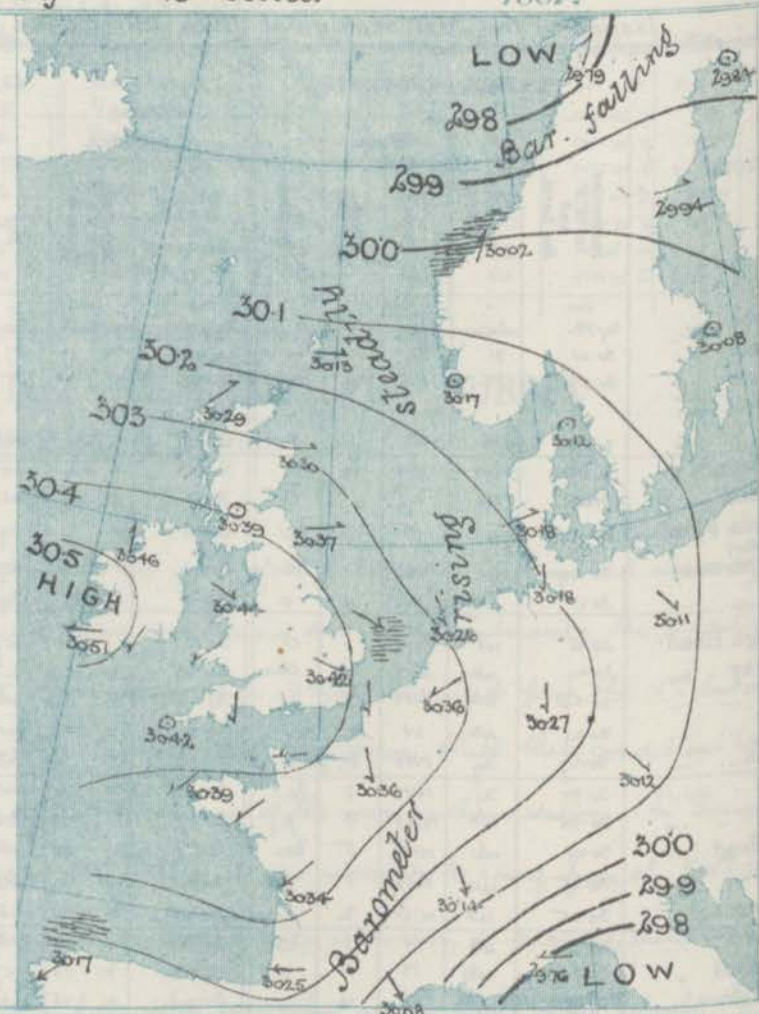
**Sea Disturbance** — where considerable, is shown thus

▨ = Rough. ▨ = High.

## MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of October.  
During the 10 Years 1871—1880.

| STATIONS.     | MEAN READINGS. |
|---------------|----------------|
|               | in.            |
| Sumburgh Head | 29.685         |
| Stornoway     | 29.707         |
| Wick          | 29.715         |
| Nairn         | 29.738         |
| Aberdeen      | 29.748         |
| Leith         | 29.780         |
| Shields       | 29.821         |
| York          | 29.860         |
| Ardrossan     | 29.749         |
| Donaghadee    | 29.806         |
| Holyhead      | 29.830         |
| Liverpool     | 29.848         |
| Valencia      | 29.842         |
| Roche's Point | 29.848         |
| Pembroke      | 29.847         |
| Scilly        | 29.877         |
| Hurst Castle  | 29.894         |
| Dover         | 29.907         |
| LONDON        | 29.902         |
| Oxford        | 29.891         |
| Cambridge     | 29.894         |
| Yarmouth      | 29.880         |



## 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<br>(Inches) |
|---------------|---------------|---------------|-----------|------|----------------------|
|               | Daily<br>Max. | Daily<br>Min. | At 8 a.m. |      |                      |
|               |               |               | Dry.      | Wet. |                      |
| Sumburgh Head | 49.5          | 41.6          | 45.9      | 44.4 | 4.88                 |
| Stornoway     | 50.2          | 38.8          | 45.1      | 43.9 | 4.94                 |
| Wick          | 51.8          | 40.0          | 46.0      | 44.3 | 2.94                 |
| Nairn         | 51.4          | 40.7          | 44.6      | 42.5 | 2.88                 |
| Aberdeen      | 52.1          | 41.3          | 45.5      | 43.5 | 2.88                 |
| Leith         | 55.3          | 41.9          | 46.7      | 45.1 | 1.94                 |
| Shields       | 53.2          | 43.1          | 47.3      | 45.5 | 2.46                 |
| York          | 55.2          | 40.9          | 48.0      | 44.7 | 2.64                 |
| Ardrossan     | 53.7          | 43.2          | 47.7      | 45.4 | 4.81                 |
| Donaghadee    | 53.2          | 43.2          | 47.8      | 46.8 | 3.35                 |
| Holyhead      | 54.9          | 47.5          | 50.4      | 48.6 | 4.58                 |
| Liverpool     | 54.0          | 44.9          | 48.0      | 46.2 | 3.62                 |
| Valencia      | 56.7          | 46.5          | 51.3      | 49.1 | 6.09                 |
| Roche's Point | 55.6          | 46.4          | 50.4      | 48.6 | 4.17                 |
| Pembroke      | 55.1          | 48.4          | 51.5      | 49.4 | 4.13                 |
| Scilly        | 56.8          | 50.7          | 53.9      | 52.0 | 3.84                 |
| Hurst Castle  | 57.7          | 46.8          | 51.5      | 50.5 | 3.24                 |
| Dover         | 56.2          | 47.8          | 51.5      | 49.4 | 3.28                 |
| LONDON        | 57.1          | 43.5          | 48.4      | 46.9 | 2.74                 |
| Oxford        | 55.7          | 42.9          | 47.0      | 45.8 | 2.72                 |
| Cambridge     | 57.0          | 41.6          | 46.6      | 45.7 | 2.86                 |
| Yarmouth      | 54.8          | 45.1          | 49.5      | 48.2 | 2.97                 |

NOTE — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 20 years 1866—85.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.5 ins. and upwards, in an anticyclone, the eastern limit of which has appeared over the west of Ireland.  
Lowest, 29.8 ins. and less, off the north of Norway, and also in a depression lying over the Gulf of Genoa.  
Barometer rising generally. Gradient rather steep over the south of France, moderate elsewhere.

## TEMPERATURE

Highest, 51° at Scilly, Jersey and Dublin, 48° at Honsday, and 47° at Lumburg H<sup>d</sup>, Malin H<sup>d</sup>, and Kilmorie.  
Lowest, 26° at Haparanda, 28° at Loughborough, 30° at Munich, 31° at Stockholm and Paris, and 32° at Oxford, Brussels and Lyons.

## WIND

Light from W. or SW. in the extreme north and northwest of our Islands, and also in the northwest of Norway.  
Light NW<sup>z</sup> over the North Sea, Germany and the east of France.  
Moderate N<sup>z</sup> or NE<sup>z</sup> over the south of our Islands and the west of France.

## WEATHER

Fair generally but foggy or misty over Central England and rainy at Kilmorie.  
[Cold showers were experienced yesterday at many of our northern and eastern stations.]

## SEA

Rather rough at Christiansund, Yarmouth and Liebow, but slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression noticed over North Germany yesterday has continued to disperse, and an anticyclone is now extending over our Islands from the westward. The steep gradients reported yesterday over the North Sea have disappeared and the general appearance is more settled than of late.

## FORECASTS

For the 24 hours ending at NOON on 17<sup>th</sup> OCTOBER 1887.

### 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

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.  | Dry. | Wet. | Wind. | Wen. | Sea. |   | Bar.          | Dry.  | Wet. | Wind. | Wen. | Sea. |    |   |
|-------------------|-------|------|------|-------|------|------|---|---------------|-------|------|-------|------|------|----|---|
| Skudesnaes ...    | 30.11 | 50   | 44   | NW    | 5    | c    | 2 | Holyhead ...  | 30.27 | 48   | 42    | NNW  | 1    | b  | 2 |
| Sumburgh Head ... | 30.18 | 41   | 38   | NNW   | 1    | c    | 2 | Valencia ...  | 30.37 | 51   | 47    | NNW  | 2    | o  | 2 |
| Stornoway ...     | 30.28 | 47   | 45   | L     | 0    | o    | 3 | Scilly ...    | 30.25 | 57   | 46    | NNW  | 4    | c  | 4 |
| Aberdeen ...      | 30.24 | 45   | 43   | NNW   | 4    | b    | 3 | Dungeness ... | 29.97 | 48   | 44    | N    | 5    | bc | 4 |
| Shields ...       | 30.20 | 44   | 43   | N     | 3    | cp   | 5 | London ...    | 30.09 | 45   | 42    | N    | 5    | bc | * |
| Ardrossan ...     | 30.27 | 49   | 44   | WSW   | 1    | b    | 1 | Yarmouth ...  | 29.98 | 48   | 44    | N    | 6    | cq | 6 |
| Malin Head ...    | 30.31 | 46   | 43   | NNW   | 3    | b    | 2 | Jersey ...    | 30.16 | 51   | 45    | NNW  | 3    | bc | 3 |
| Mullaghmore ...   | 30.34 | 49   | 45   | NW    | 4    | cv   | 2 | Rochefort ... | 30.17 | 52   | 45    | N    | 7    | b  | 2 |
| Belmullet ...     | 30.38 | 50   | 46   | N     | 3    | c    | . |               |       |      |       |      |      |    |   |

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

The reports for yesterday morning showed that the somewhat deep depression which lay over the north of Denmark on Friday was filling up over North Germany. Shallow depressions were, however, lying respectively over Hungary and the Gulf of Genoa, and readings over Central and Northern Europe were generally low. The highest pressures 30.3 ins. and upwards were reported in the extreme west of our Islands, and the barometer was rising over the whole of Western Europe. The wind was N<sup>W</sup> or NW<sup>W</sup> over the United Kingdom and France, and strong in force on our east coasts, but in other regions it was affected by one or other of the depressions noticed above and was chiefly light or moderate in force. The weather was fine in the western part of our Islands as well as in Spain and Algeria, but elsewhere conditions were cloudy, showery, and very unsettled. Temperature had risen a little in Norway, as well as at most of the Austrian stations, but fallen elsewhere; readings ranged from between 55° and 65° at Algiers and the southern part of Italy and Austria to 32° or less over Northern Europe generally, and to 25° or less in Lapland. The highest individual readings were 68° at Brindisi, 67° at Malta, 61° at Algiers, L'fat, and Palermo, and 60° at La Palme; the lowest were 18° at Haparanda, 22° at Helsingfors, 28° at Rodeo and Gap, 29° at Moscow and 31° at Archangel and Munich.

In the course of the day the depression over North Germany continued to disperse and the barometer rose generally. Showers fell in the eastern part of the United Kingdom, but in the west conditions became finer and more settled.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for

Monday 17<sup>th</sup> October

1887.

Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

| 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. |  |
|                          |                                    |                 | 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 ...            | 29.81                              | 37              | Z     | 0                 | O        | 29.63                            | - 2.1                             | 37          | 36   | + 11                              | N     | 2                 | T        | *              | 37          | 23             | Inc.                |  |
| Hernösand ...            | 29.46                              | 36              | Z     | 0                 | C        | 29.97                            | + 0.3                             | 39          | 36   | + 2                               | NW    | 2                 | B        | *              | 46          | 32             | -                   |  |
| Stockholm ...            | 30.10                              | 36              | SSW   | 2                 | B        | 30.10                            | + 0.2                             | 33          | 30   | + 2                               | SW    | 2                 | B        | *              | 45          | 27             | -                   |  |
| Wisby ...                |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |                |             |                |                     |  |
| Bodo ...                 | 29.61                              | 41              | ENE   | 2                 | T        | 29.60                            | - 1.9                             | 40          | 38   | 0                                 | WSW   | 2                 | T        | 5              | 41          | 37             | 0.24                |  |
| Christiansund...         | 30.01                              | 45              | WSW   | 2                 | T        | 30.07                            | + 0.5                             | 46          | 42   | + 5                               | WSW   | 8                 | O        | 5              | ?           | 41             | 0.08                |  |
| Skudesnaes ...           | 30.17                              | 45              | Z     | 0                 | O        | 30.22                            | + 1.5                             | 44          | 42   | + 3                               | NW    | 1                 | C        | 2              | 48          | 41             | -                   |  |
| Christiania Fjord (Færd) | 30.08                              | 44              | WSW   | 2                 | B        | 30.15                            | + 0.5                             | 38          | 36   | - 1                               | NW    | 2                 | B        | 1              | 45          | 37             | -                   |  |
| Skagen (The Scaw)        | 30.10                              | 36              | Z     | 0                 | B        | 30.16                            | + 0.4                             | 35          | 35   | - 2                               | Z     | 0                 | B        | 0              | 45          | ?              | -                   |  |
| Fanø ...                 | 30.19                              | 42              | WSW   | 2                 | C        | 30.21                            | + 0.3                             | 44          | 43   | + 5                               | NW    | 1                 | C        | *              | 50          | 39             | 0.04                |  |
| BRITISH ISLANDS.         |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |                |             |                |                     |  |
| Sumburgh Head            | 30.22                              | 47              | NW    | 4                 | C        | 30.31                            | + 1.8                             | 49          | 48   | + 2                               | NW    | 3                 | O        | 3              | 50          | 45             | 0.06                |  |
| Stornoway ...            | 30.42                              | 45              | SW    | 2                 | bc       | 30.45                            | + 1.6                             | 49          | 48   | + 1                               | N     | 3                 | T        | 3              | 51          | 39             | 0.05                |  |
| Wick ...                 | 30.37                              | 42              | NW    | 2                 | bc       | 30.44                            | + 1.8                             | 49          | 48   | + 3                               | NW    | 2                 | C        | 0              | 52          | 39             | 0.01                |  |
| Nairn ...                | 30.43                              | 44              | W     | 1                 | B        | 30.49                            | + 2.0                             | 46          | 43   | + 1                               | Z     | 0                 | B        | 1              | 57          | 40             | -                   |  |
| Aberdeen...              | 30.37                              | 48              | NW    | 3                 | B        | 30.51                            | + 2.1                             | 36          | 35   | - 7                               | WSW   | 1                 | B        | 1              | 57          | 33             | -                   |  |
| Leith ...                | 30.40                              | 43              | W     | 1                 | bc       | 30.53                            | + 1.5                             | 43          | 43   | + 2                               | W     | 1                 | bc       | *              | 57          | 38             | -                   |  |
| Shields ...              | 30.39                              | 50              | W     | 1                 | Op       | 30.54                            | + 1.7                             | 46          | 45   | + 14                              | W     | 3                 | bc       | 2              | 50          | 31             | -                   |  |
| Spurn Head ...           | 30.40                              | 44              | NW    | 3                 | C        | 30.53                            | + 1.6                             | 47          | 46   | + 5                               | NW    | 3                 | C        | 3              | 47          | 41             | -                   |  |
| York ...                 | 30.44                              | 43              | NW    | 1                 | O        | 30.58                            | + 1.7                             | 40          | 39   | + 4                               | NW    | 1                 | B        | *              | 47          | 34             | -                   |  |
| Loughborough             | 30.47                              | 44              | NW    | 1                 | O        | 30.59                            | + 1.4                             | 44          | 43   | + 16                              | NW    | 1                 | bc       | *              | 51          | 28             | -                   |  |
| GERMANY.                 |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |                |             |                |                     |  |
| Ardrossan ...            | 30.45                              | 51              | NW    | 1                 | bc       | 30.55                            | + 1.6                             | 52          | 50   | + 9                               | W     | 3                 | CW       | 2              | 55          | 41             | -                   |  |
| Malin Head ...           | 30.51                              | 50              | NW    | 2                 | B        | 30.58                            | + 1.6                             | 49          | 47   | + 2                               | SW    | 3                 | O        | 2              | 52          | 47             | 0.01                |  |
| Mullaghmore ...          | 30.54                              | 50              | NW    | 2                 | O        | 30.62                            | + 1.6                             | 48          | 44   | + 3                               | SSW   | 2                 | OY       | 2              | 53          | 44             | 0.01                |  |
| Belmullet ...            | 30.56                              | 50              | NW    | 1                 | O        | 30.62                            | + 1.2                             | 49          | 45   | + 3                               | NW    | 2                 | O        | *              | 52          | 45             | -                   |  |
| Donaghadee ...           | 30.51                              | 50              | NW    | 3                 | O        | 30.61                            | + 1.9                             | 48          | 47   | + 6                               | NW    | 3                 | C        | 2              | 53          | 41             | -                   |  |
| FRANCE & NETHERLANDS.    |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |                |             |                |                     |  |
| Barrow-in-Furness        | 30.42                              | 49              | NW    | 1                 | O        | 30.57                            | + 1.8                             | 43          | 42   | + 4                               | NE    | 1                 | C        | *              | 49          | 39             | -                   |  |
| Liverpool (Bidston)      | 30.48                              | 48              | NW    | 3                 | O        | 30.60                            | + 1.9                             | 49          | 47   | + 7                               | W     | 1                 | C        | 2              | 49          | 42             | -                   |  |
| Holyhead ...             | 30.48                              | 49              | NW    | 2                 | C        | 30.63                            | + 1.9                             | 52          | 50   | + 5                               | NW    | 2                 | C        | 2              | 52          | 46             | 0.01                |  |
| Parsonstown ...          | 30.56                              | 48              | Z     | 0                 | O        | 30.65                            | + 1.6                             | 39          | 38   | - 3                               | Z     | 0                 | O        | *              | 50          | 38             | -                   |  |
| Valencia ...             | 30.56                              | 48              | ENE   | 2                 | O        | 30.64                            | + 1.3                             | 47          | 44   | 0                                 | SE    | 1                 | O        | 1              | 51          | 40             | -                   |  |
| Roche's Point...         | 30.55                              | 46              | NNE   | 2                 | bc       | 30.62                            | + 1.2                             | 47          | 45   | + 2                               | N     | 1                 | O        | 3              | 51          | 36             | -                   |  |
| Pembroke ...             | 30.52                              | 46              | N     | 2                 | bc       | 30.61                            | + 1.6                             | 50          | 49   | + 7                               | NNE   | 1                 | bc       | 0              | 52          | 42             | -                   |  |
| Scilly ...               | 30.49                              | 51              | Z     | 0                 | bc       | 30.59                            | + 1.7                             | 51          | 47   | 0                                 | NE    | 3                 | O        | 2              | 56          | 48             | -                   |  |
| Prawle Point ...         | 30.51                              | 49              | NW    | 2                 | C        | 30.63                            | + 1.7                             | 47          | 43   | + 3                               | NE    | 2                 | O        | 2              | 58          | 39             | -                   |  |
| Jersey ...               | 30.49                              | 52              | NW    | 2                 | cg-m     | 30.57                            | + 1.4                             | 50          | 45   | - 1                               | N     | 3                 | cg-m     | 3              | 56          | 42             | -                   |  |
| NETHERLANDS.             |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |                |             |                |                     |  |
| Hurst Castle ...         | 30.48                              | 48              | NNE   | 2                 | C        | 30.58                            | + 1.4                             | 46          | 44   | + 6                               | NW    | 2                 | bc       | 2              | 54          | 38             | -                   |  |
| Dungeness ...            | 30.42                              | 46              | N     | 3                 | bc       | 30.50                            | + 1.4                             | 38          | 38   | 0                                 | NW    | 3                 | C        | 2              | 52          | 32             | -                   |  |
| London ...               | 30.45                              | 48              | NW    | 2                 | O        | 30.57                            | + 1.5                             | 43          | 41   | + 6                               | NW    | 1                 | C        | *              | 51          | 36             | -                   |  |
| Oxford ...               | 30.50                              | 45              | NW    | 2                 | O        | 30.60                            | + 1.5                             | 42          | 41   | + 10                              | NW    | 2                 | CW       | *              | 51          | 32             | -                   |  |
| Cambridge ...            | 30.48                              | 46              | N     | 1                 | O        | 30.54                            | + 1.4                             | 45          | 43   | + 7                               | N     | 1                 | O        | *              | 54          | 37             | -                   |  |
| Yarmouth ...             | 30.36                              | 45              | NW    | 3                 | C        | 30.47                            | + 1.3                             | 43          | 45   | + 5                               | NW    | 3                 | C        | 4              | 49          | 38             | 0.01                |  |
| Cuxhaven ...             | 30.22                              | 41              | W     | 1                 | T        | 30.22                            | + 0.4                             | 45          | 45   | + 4                               | N     | 3                 | C        | *              | 45          | 40             | 0.08                |  |
| Berlin ...               | 30.18                              | 40              | NW    | 2                 | B        | 30.21                            | + 1.0                             | 40          | 39   | - 1                               | NW    | 2                 | O        | *              | 46          | 36             | 0.12                |  |
| Wiesbaden ...            | *                                  | *               | *     | *                 | *        | 30.36                            | + 0.9                             | 44          | 42   | + 9                               | SW    | 1                 | O        | *              | 45          | 39             | 0.04                |  |
| Munich ...               | 30.27                              | 32              | W     | 4                 | S        | 30.34                            | + 2.2                             | 33          | ?    | + 3                               | NW    | 3                 | S        | *              | 36          | 30             | 0.39                |  |
| BELGIUM.                 |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |                |             |                |                     |  |
| The Helder ...           | 30.31                              | 46              | N     | 3                 | T        | 30.36                            | + 1.0                             | 50          | 46   | + 3                               | N     | 4                 | bc       | 3              | 50          | 46             | 0.24                |  |
| Brussels ...             | *                                  | *               | *     | *                 | *        | 30.45                            | + 0.9                             | 43          | 43   | + 11                              | WSW   | 3                 | T        | *              | 42          | ?              | 0.08                |  |
| Cape Gris Nez...         | 30.40                              | 49              | NE    | 5                 | C        | 30.50                            | + 1.5                             | 47          | 46   | + 6                               | NW    | 5                 | bc       | 4              | 52          | 39             | -                   |  |
| Paris ...                | 30.43                              | 41              | WSW   | 1                 | O        | 30.51                            | + 1.5                             | 38          | 38   | + 7                               | Z     | 0                 | O        | *              | 47          | 32             | -                   |  |
| Brest ...                | 30.55                              | 47              | N     | 1                 | O        | 30.60                            | + 2.1                             | 44          | 35   | + 2                               | Z     | 0                 | O        | 4              | 55          | 21             | -                   |  |
| Lorient ...              | 30.87                              | 49              | E     | 3                 | B        | 30.54                            | + 1.5                             | 47          | 44   | + 2                               | NE    | 1                 | O        | 2              | 55          | 41             | -                   |  |
| Rochefort ...            | 30.50                              | 48              | NNE   | 4                 | B        | 30.54                            | + 2.0                             | 38          | 37   | 0                                 | E     | 1                 | B        | 1              | 59          | 36             | -                   |  |
| Belfort ...              | 30.18                              | 36              | NW    | 3                 | B        | 30.39                            | + 3.3                             | 38          | 34   | + 5                               | W     | 3                 | B        | *              | 44          | 36             | -                   |  |
| Lyons ...                | 30.38                              | 39              | N     | 4                 | bc       | 30.47                            | + 3.3                             | 37          | 34   | + 5                               | NW    | 1                 | O        | *              | 43          | ?              | -                   |  |
| Nice ...                 | 30.05                              | 42              | E     | 1                 | B        | 30.18                            | + 4.2                             | 46          | 41   | + 3                               | E     | 3                 | bc       | 2              | 59          | 41             | -                   |  |
| Perpignan ...            | 30.21                              | 49              | NW    | 4                 | B        | 30.32                            | + 3.0                             | 47          | 38   | + 5                               | NW    | 4                 | B        | *              | 55          | ?              | -                   |  |
| Biarritz ...             | 30.44                              | 49              | ENE   | 3                 | B        | 30.49                            | + 2.4                             | 37          | 35   | - 7                               | ENE   | 5                 | B        | 1              | 54          | 34             | -                   |  |
| Corunna ...              | *                                  | *               | *     | *                 | *        |                                  |                                   |             |      |                                   |       |                   |          |                |             |                |                     |  |
| Lisbon ...               | 30.13                              | 63              | NE    | 7                 | B        | 30.25                            | + 2.0                             | 52          | 45   | + 1                               | NNE   | 7                 | C        | 2              | 70          | ?              | -                   |  |

For Explanation of Columns, see p. 4. † Not received till 11 1/2 a.m.



# WEATHER CHARTS

for 8 a.m. on Monday, 17<sup>th</sup> October

1887.

## BAROMETER, WIND & SEA.

(Explanation of Map)

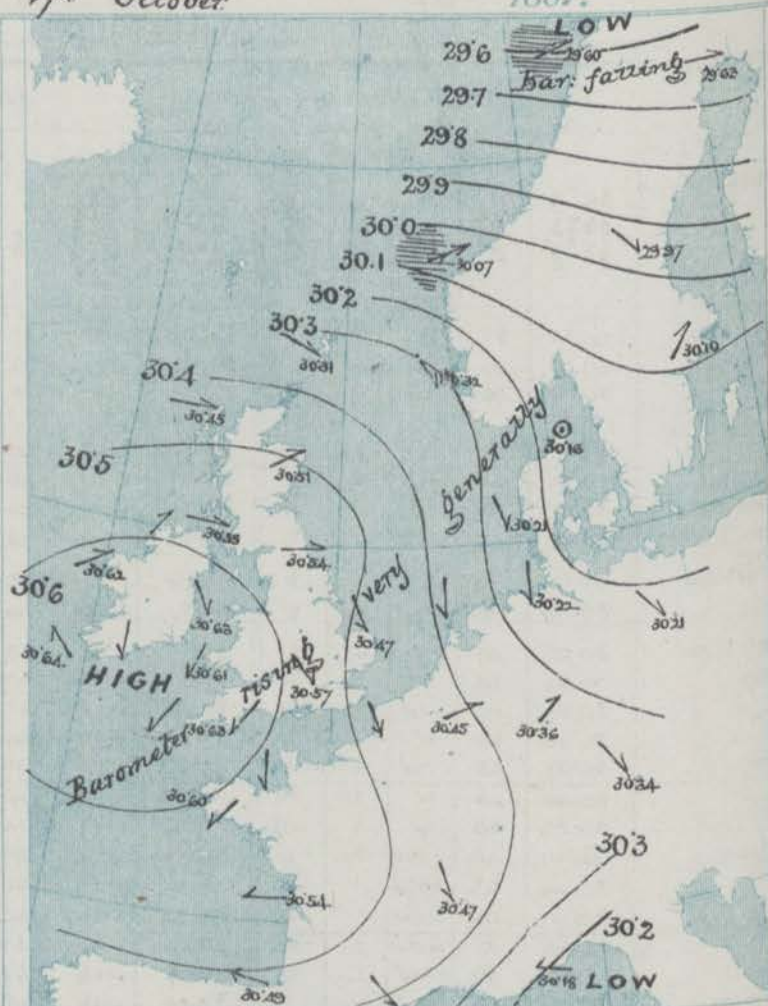
**Barometer** — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.  
**Wind** — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —  
 \* — forces above 10; — forces 8 to 10;  
 — forces 5 to 7; — forces 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 10 Years 1871—1880.

| STATIONS.     | MEAN READINGS. |
|---------------|----------------|
|               | ins.           |
| Sumburgh Head | 29.685         |
| Stornoway     | 29.707         |
| Wick          | 29.715         |
| Nairn         | 29.738         |
| Aberdeen      | 29.748         |
| Leith         | 29.780         |
| Shields       | 29.821         |
| York          | 29.860         |
| Ardrossan     | 29.749         |
| Donaghadee    | 29.805         |
| Holyhead      | 29.830         |
| Liverpool     | 29.843         |
| Valencia      | 29.842         |
| Roche's Point | 29.843         |
| Pembroke      | 29.847         |
| Scilly        | 29.877         |
| Hurst Castle  | 29.894         |
| Dover         | 29.907         |
| LONDON        | 29.902         |
| Oxford        | 29.891         |
| Cambridge     | 29.894         |
| Yarmouth      | 29.889         |



## TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

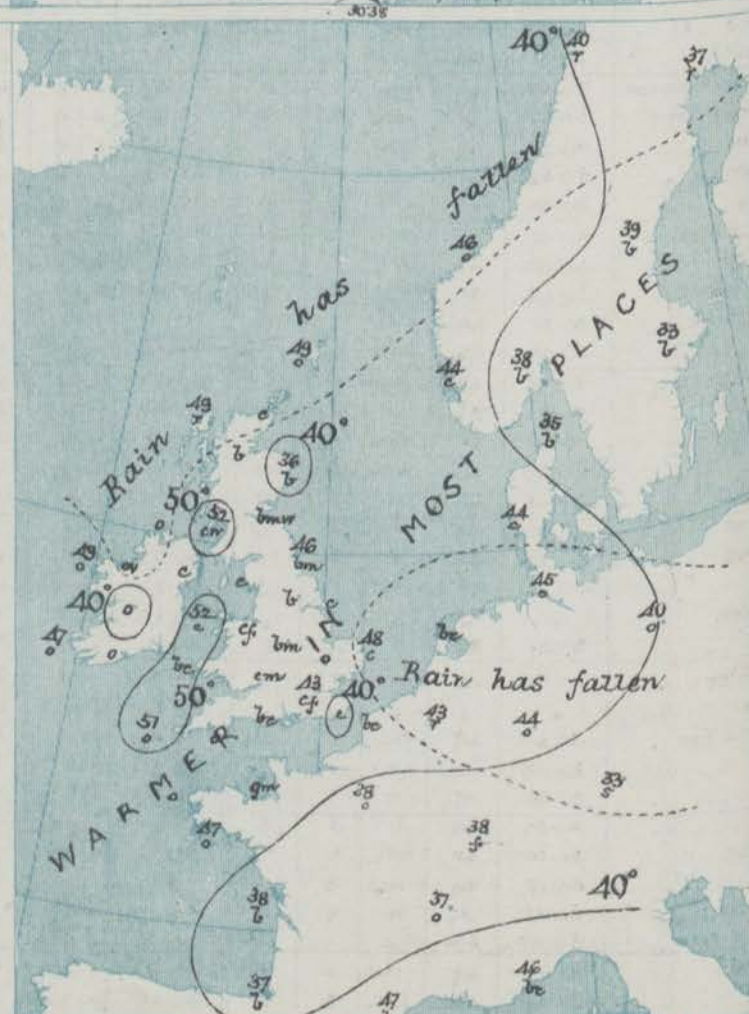
**Temperature** — Isotherms are drawn for each 10° Changes since previous morning are stated in words.  
**Weather** — is shown by Letters of the Beaufort Scale.  
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more,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

## MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

for the month of October.

| STATIONS      | TEMPERATURE   |               |           |           | RAINFALL<br>(Inches) |
|---------------|---------------|---------------|-----------|-----------|----------------------|
|               | Daily<br>Max. | Daily<br>Min. | At 8 a.m. | At 8 a.m. |                      |
|               |               |               | Dry.      | Wet.      |                      |
| Sumburgh Head | 49.5          | 41.6          | 45.9      | 41.4      | 4.33                 |
| Stornoway     | 50.2          | 38.8          | 45.1      | 40.9      | 4.94                 |
| Wick          | 51.8          | 40.0          | 46.0      | 44.3      | 2.94                 |
| Nairn         | 51.4          | 40.7          | 44.6      | 42.5      | 2.88                 |
| Aberdeen      | 52.1          | 41.3          | 45.5      | 43.5      | 2.88                 |
| Leith         | 55.3          | 41.9          | 46.7      | 45.1      | 1.94                 |
| Shields       | 53.2          | 43.1          | 47.3      | 45.5      | 2.46                 |
| York          | 55.2          | 40.9          | 46.0      | 44.7      | 2.64                 |
| Ardrossan     | 53.7          | 43.2          | 47.7      | 45.4      | 4.31                 |
| Donaghadee    | 53.2          | 43.2          | 47.8      | 46.8      | 3.35                 |
| Holyhead      | 54.9          | 47.5          | 50.4      | 48.6      | 4.53                 |
| Liverpool     | 54.0          | 44.9          | 48.0      | 46.2      | 3.62                 |
| Valencia      | 56.7          | 46.5          | 51.3      | 49.1      | 6.09                 |
| Roche's Point | 55.6          | 46.4          | 50.4      | 48.6      | 4.17                 |
| Pembroke      | 55.1          | 48.4          | 51.5      | 49.4      | 4.13                 |
| Scilly        | 56.8          | 50.7          | 53.9      | 52.0      | 3.84                 |
| Hurst Castle  | 57.7          | 46.8          | 51.5      | 50.5      | 3.24                 |
| Dover         | 56.2          | 47.8          | 51.5      | 49.4      | 3.28                 |
| LONDON        | 57.1          | 43.5          | 48.4      | 46.9      | 2.74                 |
| Oxford        | 56.7          | 42.9          | 47.0      | 45.8      | 2.72                 |
| Cambridge     | 57.0          | 41.6          | 46.6      | 45.7      | 2.86                 |
| Yarmouth      | 54.9          | 45.1          | 46.5      | 48.2      | 2.97                 |

NOTE — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 10 years 1866—85





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.6 in: and more over Ireland, Wales, and the west of England, and exceeds 30 in: over the whole of the British Isles, France and South Germany.  
Lowest, 29.6 in: and less, over Lapland. 30.2 in: over the south of Spain.  
Gradients moderate over Norway and Sweden, slight elsewhere. Barometer rising except in far north.

## TEMPERATURE

Highest, 52° at Lisbon, Holyhead and Anderson, 51° at Seilly, 50° at Kilmorck, and Jersey.  
Lowest, 33° at Munich and Stockholm, 35° at the Seas, 36° at Aberdeen, 37° at Haparanda, 37° to 38° over Central France, 39° at Helsingfors and 40° at Bodö.  
It is higher in most places than it was yesterday, but is still low for the time of year.

## WIND

Light or moderate at most stations — from W. in Scotland — from NW. or N. over the North Sea, from NE. over the Bay of Biscay, and eastern part of the Channel — and from SE and SW in Ireland.  
A SW<sup>ly</sup> gale is reported at Christiansund — a NE<sup>ly</sup> gale at Lisbon.

## WEATHER

Raining in Lapland and at Stromsund, fair in most other places, but with fog or much cloud at several stations.  
Snow is reported at Munich.

## SEA

Moderate at Yarmouth, slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The fall of the barometer noticed in the far north will probably spread to the Scotch stations during the day, causing the W<sup>ly</sup> and SW<sup>ly</sup> winds to become more decided and temperature to rise. This change may extend to Ireland and England later.

## FORECASTS

for the 24 hours ending at NOON on 18<sup>th</sup> OCTOBER 1887.

### DISTRICTS.

### FORECASTS.

|   |                  |  |
|---|------------------|--|
| 0 | SCOTLAND NORTH   | W <sup>ly</sup> and SW <sup>ly</sup> breezes, light to moderate, mild, fair.         |
| 1 | SCOTLAND EAST    | ..... D° ..... D° ..... D° .....   |
| 2 | ENGLAND N.E.     | NW <sup>ly</sup> and W <sup>ly</sup> breezes, light; fair but hazy or foggy locally. |
| 3 | ENGLAND EAST     | ..... D° ..... D° ..... D° .....   |
| 4 | MIDLAND COUNTIES | ..... D° ..... D° ..... D° .....   |
| 5 | ENGLAND SOUTH    | NW <sup>ly</sup> breezes, light; cloudy, fair, cold and foggy in night.              |



### DISTRICTS.

### FORECASTS.

|    |               |  |
|----|---------------|--|
| 6  | SCOTLAND WEST | SW <sup>ly</sup> breezes light, fair, mild.      |
| 7  | ENGLAND N.W.  | ..... D° ..... D° ..... D° .....                 |
| 8  | ENGLAND S.W.  | N <sup>ly</sup> breezes, light; fine, some fog.  |
| 9  | IRELAND NORTH | Calms and SW <sup>ly</sup> airs; fair, some fog. |
| 10 | IRELAND SOUTH | ..... D° ..... D° ..... D° .....                 |

### 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.  | Dry. | Wet. | Wind. | Wea. | Ses. |               | Bar.  | Dry. | Wet. | Wind.  | Wea. | Ses. |
|-----------------|-------|------|------|-------|------|------|---------------|-------|------|------|--------|------|------|
| Skudeenæs ...   | 30.15 | 48   | 48   | Ert 3 | c    | 2    | Holyhead ...  | 30.48 | 49   | 48   | Wrtw 1 | c    | 2    |
| Sumburgh Head   |       |      |      |       |      |      | Valencia ...  |       |      |      |        |      |      |
| Stornoway ...   | 30.38 | 51   | 48   | Sw 3  | 0    | 3    | Scilly ...    |       |      |      |        |      |      |
| Aberdeen ...    |       |      |      |       |      |      | Dungeness ... | 30.38 | 52   | 46   | rt 3   | bc   | 2    |
| Shields ...     |       |      |      |       |      |      | London ...    |       |      |      |        |      | *    |
| Ardrossan ...   |       |      |      |       |      |      | Yarmouth ...  |       |      |      |        |      |      |
| Malin Head ...  | 30.27 | 50   | 49   | NW 2  | bc   | 1    | Jersey ...    | 30.47 | 54   | 48   | Ert 2  | bc   | 2    |
| Mullaghmore ... |       |      |      |       |      |      | Rochefort ... | 30.52 | 52   | 48   | rt 4   | b    | 2    |
| Belmullet ...   | 30.55 | 51   | 48   | NW 3  | 0    | *    |               |       |      |      |        |      |      |

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

The depression which had reached North Germany on Saturday morning afterwards moved eastward and dispersed, the barometer rose over nearly the whole of Europe, and by yesterday morning, a well defined anticyclone had appeared over the west of our Islands. Over Eastern Europe however, a large and irregularly formed band of relatively low pressure extended in a southerly direction from Finland to Greece. Light breezes from the W. and W. prevailed at most of the northern stations and N.E. breezes over Spain, the greater part of France and the South of England. Over central and South Europe however, the wind was rather variable. A considerable improvement in the weather had taken place generally but rain was falling at Moscow and Kaspakwasser and fog or mist prevailed over the more central parts of the United Kingdom. Temperature <sup>had</sup> changed rather irregularly but the general tendency was for a slight fall, readings ranged from 55° and upwards over Spain, Algeria and South Italy to 32° and less over Finland and Sweden and also over the central parts of England, Germany and France. The highest individual values were 69° at Malta, 67° at Brindisi, 63° at Palermo, 62° at Algiers, and 59° at Biskra; the lowest were 21° at Uleaborg, 26° at Haparanda, 28° at Loughborough, 29° at Oax and Nicopolis, and 30° at Charleville and Helsingfors.

In the course of the day the anticyclonic system in the west, extended slowly eastward, and the barometer therefore continued to rise in most places. In the North of Scandinavia however, a new fall was occasioned by a depression which began to approach the northern part of that peninsula from the N.W.

## SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 9<sup>th</sup> TO THE 15<sup>th</sup> OCTOBER 1887.

The weather during this week has been of a cold, unseasonable character, the temperature having been much below the average, frosts at night frequent, more particularly at the inland stations, while showers of cold rain, sleet, hail and snow occurred in all districts, and thunder and lightning in many places. The wind has been mainly N.W. fresh to strong at most stations and at times blowing a gale on the exposed parts of our coasts.

Two depressions of importance were observed:—

The first appeared over the Iberian Peninsula on Sunday (9<sup>th</sup>), and moving, first in a N.E. and afterwards in a N. direction, caused strong cold N. winds over the United Kingdom, accompanied by cold showers, and followed over the Bay of Biscay by N.W. gales of great force. Its centre reached Holland on the 10<sup>th</sup>, Holstein on the 11<sup>th</sup>, and Denmark on the 12<sup>th</sup>. It was then joined by another system, from Hungary, while a subsidiary disturbance moved southwards down our west coasts to France, causing still stronger N. winds and snow over our Islands.

The second appeared over the north of Scandinavia, late on the 13<sup>th</sup> (Thursday), and, moving southwards, reached the Sound by the following morning and North Germany on the 15<sup>th</sup>—at which time it had filled up considerably. This also was accompanied by a subsidiary system which passed S.W. over the British Isles, and in its rear, N. winds, strong to a gale in places, over the United Kingdom, with renewed squalls of rain, hail, and snow.

At the close of the week disturbances were passing off, and an anticyclonic system in the west, was spreading over the British Isles, with very cold, but drier weather.

## EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for Tuesday 18<sup>th</sup> OCTOBER

1887.

Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

| STATIONS.             | + YESTERDAY EVENING.               |                 |       |                   |          |                                  | 8 A.M. TO DAY.                    |      |             |                                   |       |                   |          |                | PAST 24 HOURS. |      |                     |
|-----------------------|------------------------------------|-----------------|-------|-------------------|----------|----------------------------------|-----------------------------------|------|-------------|-----------------------------------|-------|-------------------|----------|----------------|----------------|------|---------------------|
|                       | Barometer at 32° F. and Sea Level. | Temp. in Shade. | WIND. |                   | Weather. | Reading at 32° F. and Sea Level. | BAROMETER.                        |      | SHADE TEMP. |                                   | WIND. |                   | Weather. | Sec. (0 to 9.) | SHADE TEMP.    |      | Amount of Rainfall. |
|                       |                                    |                 | Dir.  | Force. (0 to 12.) |          |                                  | Difference from 8 a.m. yesterday. | Dry. | Wet.        | Difference from 8 a.m. yesterday. | Dir.  | Force. (0 to 12.) |          |                | Max.           | Min. |                     |
| SCANDINAVIA.          |                                    |                 |       |                   |          |                                  |                                   |      |             |                                   |       |                   |          |                |                |      |                     |
| Haparanda             | 29.53                              | 31              | SW    | 2                 | b        | 29.48                            | — .15                             | 26   | 25          | — 11                              | SW    | 2                 | b        | *              | 41             | ?    | —                   |
| Hernösand             | 29.58                              | 37              | NW    | 4                 | b        | 29.71                            | — .26                             | 36   | 33          | — 3                               | Z     | 0                 | c        | *              | 48             | 34   | —                   |
| Stockholm             | 29.49                              | 37              | Z     | 0                 | b        | 29.40                            | — .20                             | 37   | 35          | + 4                               | SSW   | 2                 | b        | *              | 43             | 30   | —                   |
| Wisby                 |                                    |                 |       |                   |          |                                  |                                   |      |             |                                   |       |                   |          | *              |                |      |                     |
| Bodo                  |                                    |                 |       |                   |          |                                  |                                   |      |             |                                   |       |                   |          | *              |                |      |                     |
| Christiansund         | 29.71                              | 40              | WNW   | 6                 | o        | 29.39                            | — .21                             | 36   | 35          | — 4                               | ENE   | 2                 | o        | ?              | 41             | 34   | 0.08                |
| Skudesnaes            | 29.96                              | 45              | WSW   | 6                 | r        | 29.76                            | — .31                             | 48   | 46          | + 2                               | WSW   | 8                 | r        | 5              | 48             | ?    | 0.79                |
| Christiania Fjord     | 30.25                              | 49              | WNW   | 4                 | r        | 30.13                            | — .19                             | 50   | 49          | + 6                               | WNW   | 6                 | r        | 4              | 50             | 43   | —                   |
| (Færdar)              | 30.04                              | 48              | WSW   | 5                 | b        | 29.92                            | — .23                             | 50   | 47          | + 12                              | WSW   | 5                 | b        | 2              | ?              | ?    | —                   |
| Skagen (The Senw)     | 30.09                              | 46              | NW    | 3                 | bc       | 29.98                            | — .18                             | 48   | 46          | + 13                              | NW    | 3                 | o        | 3              | 48             | 34   | —                   |
| Fanö                  | 30.29                              | 49              | WNW   | 6                 | c        | 30.25                            | + .04                             | 50   | 46          | + 6                               | WNW   | 6                 | c        | *              | 52             | 43   | —                   |
| BRITISH ISLANDS.      |                                    |                 |       |                   |          |                                  |                                   |      |             |                                   |       |                   |          |                |                |      |                     |
| Sumburgh Head         | 30.24                              | 49              | WNW   | 3                 | r        | 30.09                            | — .22                             | 50   | 50          | + 1                               | W     | 6                 | o        | 4              | 51             | 49   | 0.09                |
| Stornoway             | 30.40                              | 50              | SW    | 4                 | r        | 30.29                            | — .16                             | 52   | 50          | + 3                               | SW    | 6                 | o        | 5              | 53             | 47   | 0.16                |
| Wick                  | 30.37                              | 50              | W     | 2                 | bc       | 30.26                            | — .18                             | 51   | 47          | + 2                               | W     | 1                 | c        | 0              | 55             | 48   | —                   |
| Nairn                 | 30.44                              | 51              | Z     | 0                 | c        | 30.35                            | — .14                             | 50   | 48          | + 4                               | W     | 1                 | bc       | 1              | 58             | 45   | —                   |
| Aberdeen              | 30.43                              | 47              | SW    | 1                 | bc       | 30.26                            | — .15                             | 46   | 44          | + 10                              | WSW   | 2                 | c        | 1              | 55             | 35   | —                   |
| Leith                 | 29.49                              | 46              | W     | 1                 | c        | 30.43                            | — .10                             | 50   | 46          | + 7                               | W     | 2                 | cm       | *              | 57             | 42   | —                   |
| Shields               | 30.32                              | 49              | W     | 1                 | m        | 30.48                            | — .06                             | 47   | 44          | + 1                               | SW    | 2                 | o        | 2              | 55             | 44   | —                   |
| Spurn Head            | 30.53                              | 49              | Z     | 0                 | c        | 30.52                            | — .01                             | 47   | 46          | 0                                 | WNW   | 3                 | c        | 2              | 53             | 44   | —                   |
| York                  | 30.54                              | 50              | W     | 1                 | b        | 30.54                            | — .04                             | 46   | 43          | + 6                               | W     | 1                 | o        | *              | 57             | 39   | —                   |
| Loughborough          | 30.58                              | 48              | WNW   | 2                 | b        | 30.59                            | .00                               | 44   | 42          | + 10                              | W     | 2                 | omw      | *              | 59             | 34   | —                   |
| Ardrossan             | 30.54                              | 52              | W     | 3                 | o        | 30.47                            | — .08                             | 51   | 50          | — 1                               | WSW   | 4                 | o        | 3              | 54             | 49   | —                   |
| Malin Head            | 30.58                              | 49              | WSW   | 3                 | o        | 30.50                            | — .08                             | 51   | 48          | + 2                               | W     | 3                 | om       | 2              | 51             | 46   | —                   |
| Mullaghmore           | 30.62                              | 48              | SW    | 3                 | o        | 30.56                            | — .06                             | 49   | 45          | + 1                               | SW    | 3                 | o        | 2              | 52             | 46   | —                   |
| Belmullet             | 30.62                              | 48              | WSW   | 2                 | o        | 30.55                            | — .07                             | 51   | 49          | + 2                               | SW    | 2                 | o        | *              | 52             | 48   | —                   |
| Donaghadee            | 30.61                              | 49              | WNW   | 2                 | o        | 30.57                            | — .04                             | 45   | 43          | — 3                               | W     | 4                 | o        | 2              | 53             | 43   | —                   |
| Barrow-in-Furness     | 30.50                              | 50              | NW    | 2                 | o        | 30.54                            | — .03                             | 48   | 44          | + 5                               | WNW   | 4                 | c        | *              | 53             | 42   | —                   |
| Liverpool (Bidston)   | 30.61                              | 49              | WNW   | 2                 | o        | 30.58                            | — .02                             | 48   | 45          | — 1                               | WNW   | 4                 | o        | 3              | 55             | 47   | —                   |
| Holyhead              | 30.62                              | 48              | Z     | 0                 | o        | 30.60                            | — .01                             | 47   | 44          | — 5                               | WNW   | 2                 | o        | 2              | 55             | 46   | —                   |
| Parsonstown           | 30.66                              | 47              | Z     | 0                 | c        | 30.65                            | .00                               | 45   | 42          | + 6                               | Z     | 0                 | o        | *              | 54             | 38   | —                   |
| Valencia              | 30.65                              | 50              | SE    | 1                 | o        | 30.61                            | — .03                             | 52   | 47          | + 5                               | ESE   | 2                 | o        | 2              | 52             | 46   | —                   |
| Roche's Point...      | 30.66                              | 50              | SW    | 2                 | c        | 30.62                            | .00                               | 48   | 45          | + 1                               | NNW   | 1                 | c        | 3              | 53             | 44   | —                   |
| Pembroke              | 30.63                              | 50              | N     | 2                 | b        | 30.64                            | + .03                             | 48   | 47          | — 2                               | NNE   | 1                 | bc       | 0              | 57             | 45   | —                   |
| Scilly                | 30.62                              | 49              | ESE   | 2                 | b        | 30.62                            | + .02                             | 51   | 49          | 0                                 | Z     | 0                 | o        | 2              | 58             | 46   | —                   |
| Prawle Point          | 30.65                              | 47              | NE    | 2                 | b        | 30.65                            | + .02                             | 50   | 47          | + 3                               | N     | 2                 | b        | 2              | 60             | 42   | —                   |
| Jersey                | 30.62                              | 49              | NNE   | 1                 | b        | 30.63                            | + .06                             | 46   | 45          | — 4                               | NE    | 1                 | bcwm     | 1              | 55             | 40   | —                   |
| Hurst Castle          | 30.60                              | 50              | NNE   | 2                 | b        | 30.64                            | + .06                             | 40   | 39          | — 6                               | NE    | 1                 | m        | 0              | 56             | 33   | —                   |
| Dungeness             | 30.56                              | 49              | NNE   | 2                 | bc       | 30.58                            | + .03                             | 37   | 37          | — 1                               | NNW   | 2                 | f        | 1              | 53             | 35   | —                   |
| London                | 30.58                              | 46              | NW    | 1                 | bf       | 30.60                            | + .03                             | 39   | 38          | — 4                               | W     | 1                 | cf       | *              | 55             | 33   | —                   |
| Oxford                | 30.63                              | 41              | Z     | 0                 | b        | 30.63                            | + .03                             | 24   | 24          | — 8                               | W     | 1                 | bm       | *              | 55             | 33   | —                   |
| Cambridge             | 30.57                              | 47              | N     | 1                 | c        | 30.59                            | + .02                             | 45   | 43          | — 2                               | W     | 1                 | o        | *              | 57             | 38   | —                   |
| Yarmouth              | 30.53                              | 49              | NNW   | 1                 | c        | 30.53                            | + .06                             | 43   | 42          | — 5                               | NW    | 2                 | cf       | 4              | 52             | 37   | —                   |
| Cuxhaven              | 30.30                              | 43              | N     | 3                 | c        | 30.32                            | + .10                             | 50   | 49          | + 5                               | NW    | 3                 | c        | *              | 50             | 43   | —                   |
| Berlin                | 30.27                              | 41              | W     | 2                 | bc       | 30.25                            | + .04                             | 43   | 42          | + 3                               | W     | 2                 | r        | *              | 45             | 37   | —                   |
| Wiesbaden             | *                                  | *               | *     | *                 | *        | 30.47                            | + .11                             | 48   | 45          | + 4                               | W     | 2                 | o        | *              | 50             | ?    | —                   |
| Munich                | 30.40                              | 34              | W     | 4                 | s        | 30.45                            | + .11                             | 37   | 36          | + 4                               | W     | 4                 | r        | *              | ?              | ?    | 0.28                |
| FRANCE & NETHERLANDS. |                                    |                 |       |                   |          |                                  |                                   |      |             |                                   |       |                   |          |                |                |      |                     |
| The Helder            | 30.47                              | 49              | WNW   | 1                 | c        | 30.43                            | + .07                             | 50   | 49          | 0                                 | NW    | 3                 | c        | 3              | 52             | 48   | —                   |
| Brussels              | *                                  | *               | *     | *                 | *        | 30.54                            | + .09                             | 46   | 46          | + 3                               | NNW   | 1                 | f        | *              | 52             | ?    | 0.08                |
| Cape Gris Nez...      | 30.53                              | 45              | N     | 4                 | c        | 30.55                            | + .05                             | 46   | 45          | — 1                               | NNE   | 4                 | m        | 3              | 54             | 46   | —                   |
| Paris                 | 30.55                              | 49              | N     | 1                 | o        | 30.60                            | + .09                             | 37   | 37          | — 1                               | SW    | 1                 | f        | *              | 54             | 36   | —                   |
| Brest                 | 30.63                              | 48              | NE    | 4                 | b        | 30.60                            | .00                               | 43   | 41          | — 1                               | N     | 1                 | o        | 2              | 55             | 37   | —                   |
| Lorient               | 30.58                              | 51              | ENE   | 4                 | b        | 30.63                            | + .09                             | 43   | 41          | — 4                               | ENE   | 3                 | bc       | 2              | 55             | 41   | —                   |
| Rochefort             | 30.56                              | 49              | NE    | 5                 | bc       | 30.59                            | + .05                             | 43   | 42          | + 5                               | NE    | 4                 | c        | 2              | 61             | 37   | —                   |
| Belfort               | 30.43                              | 41              | W     | 1                 | o        | 30.51                            | + .12                             | 41   | 41          | + 3                               | NW    | 1                 | f        | *              | 47             | 32   | —                   |
| Lyons                 | 30.48                              | 39              | N     | 3                 | b        | 30.49                            | + .02                             | 42   | 41          | + 5                               | N     | 7                 | o        | *              | 45             | ?    | —                   |
| Nice                  | 30.17                              | 52              | Z     | 0                 | b        | 30.28                            | + .10                             | 48   | 41          | + 2                               | E     | 1                 | b        | 2              | 61             | 41   | —                   |
| Perpignan             | 30.38                              | 50              | NW    | 4                 | b        | 30.41                            | + .11                             | 46   | 40          | — 1                               | NW    | 4                 | b        | *              | 59             | 44   | —                   |
| Biarritz              | 30.47                              | 50              | ENE   | 4                 | b        | 30.51                            | + .02                             | 39   | 37          | + 2                               | E     | 5                 | m        | 1              | 55             | 36   | —                   |
| Corunna               | *                                  | *               | *     | *                 | *        | 30.19                            | — .06                             | 52   | 44          | 0                                 | NNE   | 7                 | b        | 2              | 46             | 50   | —                   |
| Lisbon                | 30.22                              | 64              | NE    | 5                 | bc       |                                  |                                   |      |             |                                   |       |                   |          |                |                |      |                     |

For Explanation of Columns, see p. 4.



# WEATHER

for 8 a.m. on

Tuesday

# CHARTS

18<sup>th</sup> October

1887.

## BAROMETER, WIND & 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 —

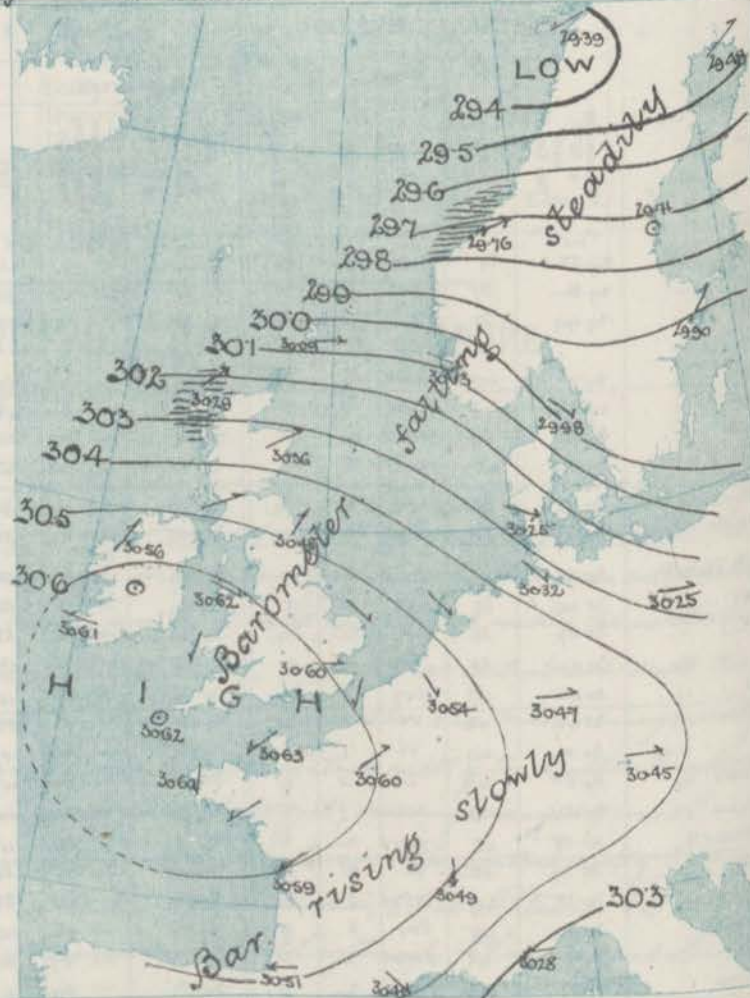
→ — forces above 10; → — forces 8 to 10;  
→ — forces 5 to 7; → — forces 1 to 4;  
⊙ — dead calm.

**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 10 Years 1871—1880.

| STATIONS.      | MEAN READINGS. |
|----------------|----------------|
| Sumburgh Head. | 29.685         |
| Stornoway.     | 29.707         |
| Wick.          | 29.718         |
| Nairn.         | 29.738         |
| Aberdeen.      | 29.748         |
| Leith.         | 29.780         |
| Shields.       | 29.821         |
| York.          | 29.890         |
| Ardrossan.     | 29.749         |
| Donaghadee.    | 29.805         |
| Holyhead.      | 29.830         |
| Liverpool.     | 29.848         |
| Valencia.      | 29.842         |
| Roche's Point. | 29.843         |
| Pembroke.      | 29.847         |
| Scilly.        | 29.877         |
| Hurst Castle.  | 29.804         |
| Dover.         | 29.907         |
| LONDON.        | 29.902         |
| Oxford.        | 29.891         |
| Cambridge.     | 29.894         |
| Yarmouth.      | 29.889         |



## TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

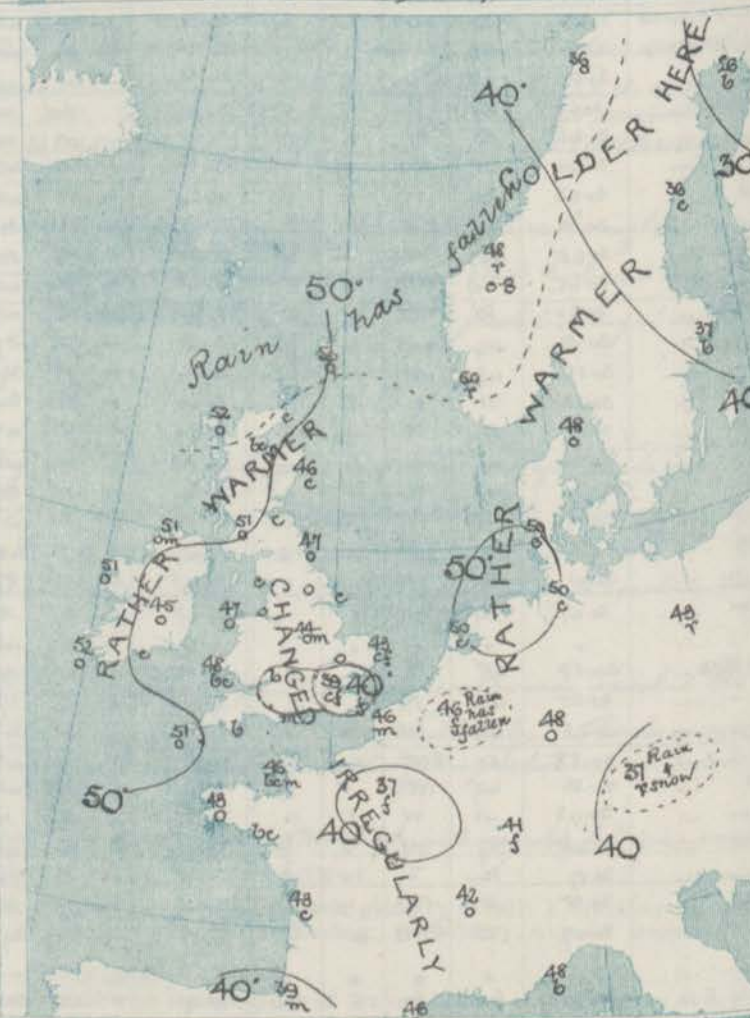
**Temperature** — Isotherms are drawn for each 10° changes since previous morning are stated in words.  
**Weather** — is shown by letters of the Beaufort Scale.  
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more,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

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of October.

| STATIONS.      | TEMPERATURE. |            |           |           | RAINFALL (Inches) |
|----------------|--------------|------------|-----------|-----------|-------------------|
|                | Daily Max.   | Daily Min. | At 8 a.m. | At 4 p.m. |                   |
| Sumburgh Head. | 49.5         | 41.6       | 45.9      | 44.4      | 4.83              |
| Stornoway.     | 50.2         | 38.8       | 45.1      | 43.9      | 4.94              |
| Wick.          | 51.8         | 40.0       | 46.0      | 44.3      | 2.94              |
| Nairn.         | 51.4         | 40.7       | 44.6      | 42.5      | 2.88              |
| Aberdeen.      | 52.1         | 41.3       | 45.5      | 43.5      | 2.88              |
| Leith.         | 55.8         | 41.9       | 46.7      | 45.1      | 1.94              |
| Shields.       | 53.2         | 43.1       | 47.3      | 45.5      | 2.46              |
| York.          | 55.2         | 40.9       | 46.0      | 44.7      | 2.04              |
| Ardrossan.     | 53.7         | 43.2       | 47.7      | 45.4      | 4.81              |
| Donaghadee.    | 58.2         | 43.2       | 47.8      | 46.8      | 3.35              |
| Holyhead.      | 54.9         | 47.5       | 50.4      | 48.6      | 4.53              |
| Liverpool.     | 54.0         | 44.9       | 48.0      | 46.2      | 3.62              |
| Valencia.      | 50.7         | 46.5       | 51.3      | 49.1      | 6.09              |
| Roche's Point. | 55.6         | 46.4       | 50.4      | 48.6      | 4.17              |
| Pembroke.      | 55.1         | 48.4       | 51.5      | 49.4      | 4.13              |
| Scilly.        | 56.8         | 50.7       | 53.9      | 52.0      | 3.84              |
| Hurst Castle.  | 57.7         | 46.8       | 51.5      | 50.5      | 3.24              |
| Dover.         | 56.2         | 47.8       | 51.5      | 49.4      | 3.28              |
| LONDON.        | 57.1         | 43.5       | 48.4      | 46.9      | 2.74              |
| Oxford.        | 55.7         | 42.9       | 47.0      | 45.8      | 2.72              |
| Cambridge.     | 57.0         | 41.6       | 46.6      | 45.7      | 2.36              |
| Yarmouth.      | 54.0         | 45.1       | 49.5      | 48.2      | 2.07              |

NOTE — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 20 years 1866—85.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest 30.6 in. and upwards in an anticyclone lying over the southwest of our Islands and the northwest of France.  
Lowest 29.4 in. and less in a depression, whose centre lies a little to the south of Bordeaux.  
Barometer falling briskly in Scandinavia. Gradients rather steep in the extreme North.

## TEMPERATURE

Highest 52° at Hørnøysund, Valencia & Lisbon, 51° at Wick, Ardrossan, Malin Head, Belmullet and Lough.  
Lowest 26° at Haparanda, 34° at Oxford, 36° at Helsingfors and 37° at Stockholm, Paris and Munich.

## WIND

SW or W over Scandinavia and the north of our Islands; strong in force in the Shetlands, Hebrides, west of Norway.  
Moderate NW over the southern part of the North Sea.  
Light N in the south of England; moderate NE or E over the West of France.

## WEATHER

Varying greatly in different localities, but cloudy at the majority of stations.  
Rain falling in the West of Norway, and also in Germany.  
Fog reported over Belgium, the southeast of England, and the East of France.

## SEA

Rather rough at Christiansund and Lumburgh Head, but slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression over the North of Norway seems likely to travel east or southeast, and a further increase of wind is probable on the east shores of the North Sea.

There are at present no definite indications of the approach of any subsidiary disturbance, but some extension of unsettled weather is likely in the north and northeast of our Islands.

## FORECASTS

For the 24 hours ending at NOON on 19<sup>th</sup> October 1887.

### DISTRICTS.

### FORECASTS.

|   |                  |   |
|---|------------------|---|
| 0 | SCOTLAND NORTH   | SW and W winds, strong; dull, some rain.              |
| 1 | SCOTLAND EAST    | W winds, freshening; fair to unsettled and some rain. |
| 2 | ENGLAND N.E.     | -----D-----D-----D-----                               |
| 3 | ENGLAND EAST     | Same as N° 5.   |
| 4 | MIDLAND COUNTIES | Same as N° 5.   |
| 5 | ENGLAND SOUTH    | N and NW winds, moderate; fair generally.             |



### DISTRICTS.

### FORECASTS.

|    |               |   |
|----|---------------|---|
| 6  | SCOTLAND WEST | Same as N° 1 and 2.   |
| 7  | ENGLAND N.W.  | Same as N° 3 to 5.  |
| 8  | ENGLAND S.W.  | Light variable breezes; fair generally.                                     |
| 9  | IRELAND NORTH | SW and W winds, freshening; dull, some rain.                                |
| 10 | IRELAND SOUTH | Variable breezes, finally S <sup>W</sup> ; fair to unsettled and some rain. |

### WARNINGS

NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

|                   | Bar.  | Ther. | Wet. | Wind. | Wea. | Sea. |               | Bar.  | Ther. | Wet. | Wind. | Wea. | Sea. |
|-------------------|-------|-------|------|-------|------|------|---------------|-------|-------|------|-------|------|------|
| Skudeanaes ...    | 30.27 | 47    | 46   | SSW 1 | rf   | 2    | Holyhead ...  | 30.62 | 54    | 50   | WNW 1 | c    | 2    |
| Sundergh Head ... | 30.27 | 49    | 48   | WNW 3 | o    | 3    | Valencia ...  | 30.69 | 51    | 46   | ESE 2 | o    | 2    |
| Stornoway ...     | 30.42 | 57    | 50   | SW 4  | o    | 4    | Scilly ...    | 30.62 | 53    | 49   | ESE 4 | o    | 1    |
| Aberdeen ...      | 30.46 | 53    | 48   | SW 3  | bc   | 1    | Dungenees ... | 30.53 | 53    | 48   | NNE 4 | bc   | 3    |
| Shields ...       | 30.51 | 55    | 50   | W 3   | b    | 2    | London ...    | 30.58 | 54    | 47   | NW 2  | bc   | *    |
| Ardrossan ...     | 30.56 | 53    | 51   | W 3   | o    | 2    | Yarmouth ...  | 30.52 | 52    | 48   | NNW 3 | c    | 4    |
| Malin Head ...    | 30.57 | 50    | 48   | WSW 3 | o    | 2    | Jersey ...    | 30.60 | 55    | 49   | NNE 3 | b    | 3    |
| Mullaghmore ...   | 30.63 | 50    | 46   | WSW 4 | ov   | 2    | Rochefort ... | 30.56 | 57    | 52   | NE 4  | b    | 2    |
| Belmullet ...     | 30.62 | 48    | 44   | SW 2  | o    | *    |               |       |       |      |       |      |      |

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

Yesterday morning reports showed that pressure then varied from between 30.5 ins. and 30.7 ins. in an anticyclone the centre of which lay over the British Isles, and from 30.1 ins. and more over the southern parts of Russia to rather below 29.9 ins. in a shallow depression which lay over Poland, and to about 29.5 ins. in a larger disturbance which was advancing eastwards along the extreme north coast of Lapland. The disturbance noticed over the Gulf of Genoa on Saturday and Sunday had dispersed. Thus, while W<sup>ly</sup> and SW<sup>ly</sup> winds of increasing strength prevailed over the northern regions, NW<sup>ly</sup> breezes were felt over the North Sea and Germany, and NE<sup>ly</sup> over France, the Channel and Bay of Biscay. In Russia the wind was S<sup>ly</sup>. The weather was showery over Central Europe, the North Sea, and at some of the extreme northwestern and northern stations, fair elsewhere, but foggy and dull in many localities. Temperature was still low in most places, but showed a rather decided tendency to recover in the northwest and north, where the readings were slightly above the average values for October. The thermometer stood at 60° and more over the southeastern parts of the Mediterranean, but was below 50° even in the south of France, but except over some parts of Central France, Spain, and Russia frost occurred on the ground only. The highest individual values were 68° at Constantinople, 64° at Khindisi, 61° at Algiers, Biskra, and San Fernando, 61° at Barcelona and Oporto, 53° at Legna and 50° at Naples; the lowest 23° at Linsges, 32° at Riga, 33° at Hermont, Munich, and Archangel, 34° at Loughborough (Leicester) as well as Uleaborg, Kuopio, and Madrid and 37° at Kiev.

Later in the day the anticyclone over our Islands began to move southwards, the barometer fell in the north, and milder W<sup>ly</sup> winds began to spread over our northern districts, while a ground frost was felt over England.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for Wednesday 19<sup>th</sup> OCT<sup>r</sup>

1887.

Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

| STATIONS.                  | + YESTERDAY EVENING.               |                 |       |                   |    |          | 8 A.M. TO DAY.                   |                                   |             |      |                                   |       |                   |     |          |                | PAST 24 HOURS. |      |                     |
|----------------------------|------------------------------------|-----------------|-------|-------------------|----|----------|----------------------------------|-----------------------------------|-------------|------|-----------------------------------|-------|-------------------|-----|----------|----------------|----------------|------|---------------------|
|                            | Barometer at 3 p.m. and Sea Level. | Temp. in Shade. | WIND. |                   |    | Weather. | BAROMETER.                       |                                   | SHADE TEMP. |      |                                   | WIND. |                   |     | Weather. | Sea. (0 to 9.) | SHADE TEMP.    |      | Amount of Rainfall. |
|                            |                                    |                 | Dir.  | Force. (0 to 12.) |    |          | Reading at 8 a.m. and Sea Level. | Difference from 8 a.m. yesterday. | Dry.        | Wet. | Difference from 8 a.m. yesterday. | Dir.  | Force. (0 to 12.) |     |          |                | Max.           | Min. |                     |
| Haparanda                  | 29.34                              | 28              | Z     | 0                 | 0  |          | 29.43                            | -.05                              | 23          | 23   | -.3                               | N     | 2                 | C   | *        |                | 37             | 23   |                     |
| Hernösand                  | 29.62                              | 43              | E     | 2                 | bc |          | 29.68                            | -.03                              | 41          | 38   | +.5                               | WNW   | 2                 | C   | *        |                | 55             | 30   |                     |
| Stockholm                  | 29.79                              | 45              | Z     | 0                 | b  |          | 29.83                            | -.07                              | 42          | 39   | +.5                               | WSW   | 2                 | C   | *        |                | 50             | 34   |                     |
| Wisby                      | 29.85                              | 48              | W     | 2                 | b  |          | 29.84                            |                                   | 48          | 47   |                                   | WNW   | 2                 | C   | *        |                | 50             | 44   |                     |
| Bodo                       | 29.32                              | 43              | SW    | 8                 | r  |          | 29.46                            | +.07                              | 43          | 40   | +.7                               | W     | 5                 | bc  | 3        |                | 43             | 32   | 0.35                |
| Christiansund              | 29.81                              | 48              | WSW   | 9                 | 0  |          | 29.67                            | -.09                              | 48          | 47   | -.1                               | SW    | 3                 | r   | 5        |                | 48             | 45   | 0.47                |
| Skudesnaes                 | 30.07                              | 51              | WNW   | 7                 | r  |          | 30.02                            | -.11                              | 51          | 49   | +.1                               | WNW   | 6                 | 0   | 4        |                | 52             | 50   |                     |
| Christiania Fjord (Færder) | 29.89                              | 52              | W     | 5                 | bc |          | 29.84                            | -.08                              | 51          | 49   | +.1                               | WSW   | 5                 | C   | 2        |                | 54             | 60   |                     |
| Skagen (The Scaw)          | 29.90                              | 50              | NW    | 6                 | bc |          | 29.89                            | -.09                              | 50          | 49   | +.1                               | NW    | 6                 | 0   | 4        |                | 52             | 48   |                     |
| Faro                       | 30.21                              | 50              | WNW   | 6                 | C  |          | 30.16                            | -.09                              | 50          | 49   | -.1                               | WNW   | 4                 | C   | *        |                | 54             | 48   |                     |
| Sumburgh Head              | 30.06                              | 51              | W     | 4                 | 0  |          | 29.89                            | -.20                              | 51          | 50   | +.1                               | WSW   | 4                 | 0   | 4        |                | 52             | 50   |                     |
| Stornoway                  | 30.29                              | 54              | SW    | 5                 | op |          | 30.01                            | -.28                              | 53          | 51   | +.1                               | SW    | 6                 | ow  | 5        |                | 54             | 49   | 0.06                |
| Wick                       | 30.20                              | 50              | W     | 2                 | C  |          | 30.02                            | -.24                              | 53          | 50   | +.2                               | W     | 3                 | 0   | 1        |                | 58             | 48   |                     |
| Nairn                      | 30.29                              | 53              | Z     | 0                 | C  |          | 30.09                            | -.26                              | 53          | 50   | +.3                               | W     | 4                 | bc  | 2        |                | 36             | 50   |                     |
| Aberdeen                   | 30.01                              | 51              | WSW   | 1                 | bc |          | 30.16                            | -.20                              | 49          | 47   | +.3                               | SW    | 2                 | C   | 0        |                | 57             | 45   |                     |
| Leith                      | 30.40                              | 50              | WSW   | 2                 | C  |          | 30.26                            | -.17                              | 50          | 47   | -.3                               | W     | 4                 | C   | *        |                | 53             | 46   |                     |
| Shields                    | 30.42                              | 50              | WSW   | 1                 | 0  |          | 30.35                            | -.13                              | 47          | 44   | -.3                               | SW    | 1                 | cm  | 2        |                | 52             | 45   |                     |
| Spurn Head                 | 30.45                              | 49              | W     | 3                 | C  |          | 30.42                            | -.10                              | 48          | 46   | +.1                               | W     | 3                 | cm  | 2        |                | 50             | 46   |                     |
| York                       | 30.48                              | 49              | W     | 1                 | 0  |          | 30.41                            | -.13                              | 47          | 45   | +.1                               | WSW   | 1                 | 0   | *        |                | 52             | 44   |                     |
| Loughborough               | 30.54                              | 47              | WNW   | 3                 | 0  |          | 30.48                            | -.11                              | 45          | 43   | +.2                               | W     | 2                 | 0   | *        |                | 50             | 44   |                     |
| Ardrossan                  | 30.42                              | 52              | WSW   | 4                 | 0  |          | 30.30                            | -.17                              | 52          | 50   | +.1                               | WSW   | 5                 | 0   | 4        |                | 54             | 50   |                     |
| Malin Head                 | 30.44                              | 50              | SW    | 4                 | ow |          | 30.26                            | -.24                              | 51          | 48   | -.3                               | SW    | 5                 | ow  | 3        |                | 51             | 49   |                     |
| Mullaghmore                | 30.49                              | 50              | SSW   | 5                 | 0  |          | 30.34                            | -.22                              | 50          | 47   | +.1                               | SSW   | 4                 | 0   | 3        |                | 52             | 48   |                     |
| Belmullet                  | 30.48                              | 51              | SW    | 2                 | 0  |          | 30.38                            | -.22                              | 53          | 50   | +.2                               | SW    | 5                 | 0   | *        |                | 53             | 51   |                     |
| Donaghadee                 | 30.50                              | 48              | W     | 2                 | 0  |          | 30.38                            | -.19                              | 48          | 45   | +.3                               | WSW   | 4                 | bc  | 1        |                | 50             | 44   |                     |
| Barrow-in-Furness          | 30.47                              | 51              | W     | 3                 | 0  |          | 30.40                            | -.14                              | 50          | 45   | +.2                               | NW    | 4                 | C   | *        |                | 52             | 48   |                     |
| Liverpool (Bidston)        | 30.53                              | 48              | W     | 3                 | 0  |          | 30.44                            | -.14                              | 47          | 44   | -.3                               | SW    | 2                 | 0   | 2        |                | 50             | 46   |                     |
| Holyhead                   | 30.55                              | 48              | W     | 1                 | 0  |          | 30.45                            | -.17                              | 50          | 46   | +.3                               | WSW   | 2                 | C   | 2        |                | 51             | 47   |                     |
| Parsonstown                | 30.56                              | 48              | Z     | 0                 | 0  |          | 30.44                            | -.21                              | 44          | 42   | -.1                               | Z     | 0                 | C   | *        |                | 50             | 43   |                     |
| Valencia                   | 30.53                              | 53              | S     | 5                 | ow |          | 30.42                            | -.19                              | 54          | 51   | +.2                               | S     | 4                 | cm  | 4        |                | 54             | 51   |                     |
| Roche's Point...           | 30.57                              | 53              | WSW   | 2                 | C  |          | 30.46                            | -.16                              | 53          | 50   | +.2                               | SW    | 4                 | C   | 4        |                | 54             | 47   |                     |
| Pembroke                   | 30.57                              | 51              | WNW   | 1                 | C  |          | 30.49                            | -.15                              | 51          | 49   | +.2                               | SSW   | 2                 | bc  | 2        |                | 52             | 47   |                     |
| Scilly                     | 30.56                              | 50              | Z     | 0                 | 0  |          | 30.48                            | -.14                              | 52          | 50   | +.1                               | SSE   | 4                 | C   | 3        |                | 57             | 47   |                     |
| Prawle Point               | 30.59                              | 48              | NNE   | 1                 | b  |          | 30.52                            | -.13                              | 52          | 49   | +.2                               | NE    | 1                 | bc  | 1        |                | 61             | 39   |                     |
| Jersey                     | 30.57                              | 52              | Z     | 0                 | bc |          | 30.53                            | -.10                              | 47          | 45   | +.1                               | N     | 1                 | cm  | 1        |                | 61             | 44   |                     |
| Hurst Castle               | 30.57                              | 57              | NW    | 1                 | m  |          | 30.54                            | -.10                              | 44          | 42   | +.2                               | NNE   | 2                 | C   | 0        |                | 57             | 37   |                     |
| Dungeness                  | 30.52                              | 49              | N     | 3                 | m  |          | 30.48                            | -.10                              | 44          | 42   | +.2                               | N     | 2                 | 0   | 2        |                | 55             | 36   |                     |
| London                     | 30.55                              | 48              | NW    | 2                 | ow |          | 30.51                            | -.09                              | 46          | 43   | +.2                               | W     | 1                 | ogm | *        |                | 51             | 38   |                     |
| Oxford                     | 30.57                              | 54              | Z     | 0                 | 0  |          | 30.52                            | -.11                              | 44          | 41   | +.2                               | WNW   | 2                 | 0   | *        |                | 53             | 34   |                     |
| Cambridge                  | 30.53                              | 47              | W     | 1                 | 0  |          | 30.48                            | -.11                              | 47          | 44   | +.2                               | Z     | 0                 | 0   | *        |                | 52             | 40   |                     |
| Yarmouth                   | 30.48                              | 46              | NW    | 2                 | C  |          | 30.44                            | -.09                              | 46          | 44   | +.2                               | WNW   | 2                 | bc  | 3        |                | 48             | 42   |                     |
| Cuxhaven                   | 30.30                              | 45              | NW    | 4                 | 0  |          | 30.25                            | -.07                              | 51          | 51   | +.1                               | WNW   | 2                 | 0   | *        |                | 51             | 45   |                     |
| Berlin                     | 30.21                              | 49              | WNW   | 3                 | 0  |          | 30.21                            | -.04                              | 48          | 46   | +.2                               | WNW   | 4                 | 0   | *        |                | 50             | 46   |                     |
| Wiesbaden                  | *                                  | *               | *     | *                 | *  |          | 30.44                            | -.03                              | 47          | 44   | -.1                               | Z     | 0                 | 0   | *        |                | 52             | 45   |                     |
| Munich                     | 30.43                              | 37              | SW    | 3                 | 0  |          | 30.43                            | -.02                              | 49          | 39   | +.1                               | SW    | 4                 | 0   | *        |                | 57             | 37   | 0.47                |
| The Helder                 | 30.41                              | 49              | NW    | 3                 | C  |          | 30.35                            | -.08                              | 50          | 49   | -.1                               | WNW   | 3                 | C   | 2        |                | 52             | 48   |                     |
| Brussels                   | *                                  | *               | *     | *                 | *  |          | 30.46                            | -.08                              | 46          | 44   | -.2                               | WSW   | 3                 | 0   | *        |                | 53             | 45   |                     |
| Cape Gris Nez              | 30.50                              | 48              | N     | 4                 | m  |          | 30.44                            | -.11                              | 48          | 48   | +.1                               | N     | 3                 | m   | 2        |                | 50             | 46   |                     |
| Paris                      | 30.54                              | 47              | NE    | 3                 | 0  |          | 30.51                            | -.09                              | 43          | 41   | +.2                               | N     | 1                 | 0   | *        |                | 52             | 42   |                     |
| Brest                      | 30.56                              | 49              | W     | 3                 | 0  |          | 30.53                            | -.07                              | 45          | 41   | +.2                               | ESE   | 5                 | C   | 5        |                | 57             | 38   |                     |
| Lorient                    | 30.56                              | 52              | NNW   | 1                 | b  |          | 30.52                            | -.11                              | 45          | 44   | +.1                               | ESE   | 3                 | b   | 1        |                | 57             | 41   |                     |
| Rochefort                  | 30.52                              | 60              | NE    | 5                 | b  |          | 30.48                            | -.11                              | 43          | 41   | -.2                               | NE    | 5                 | b   | 2        |                | 61             | 37   |                     |
| Belfort                    | 30.45                              | 42              | SW    | 1                 | bc |          | 30.48                            | -.08                              | 45          | 42   | +.2                               | SW    | 1                 | f   | *        |                | 49             | 32   |                     |
| Lyons                      | 30.46                              | 46              | N     | 5                 | C  |          | 30.47                            | -.02                              | 39          | 38   | -.1                               | E     | 1                 | 0   | *        |                | 51             | 38   |                     |
| Nice                       | 30.27                              | 51              | SSE   | 1                 | b  |          | 30.31                            | +.03                              | 50          | 44   | +.2                               | E     | 1                 | b   | 2        |                | 61             | 41   |                     |
| Perpignan                  | 30.36                              | 54              | NNW   | 4                 | C  |          | 30.28                            | -.03                              | 37          | 37   | -.1                               | SW    | 1                 | m   | *        |                | 61             | 37   |                     |
| Biarritz                   | 30.46                              | 50              | Z     | 0                 | b  |          | 30.40                            | -.11                              | 42          | 40   | +.2                               | SE    | 4                 | m   | 1        |                | 57             | 37   |                     |
| Corunna                    | *                                  | *               | *     | *                 | *  |          |                                  |                                   |             |      |                                   |       |                   |     |          |                |                |      |                     |
| Lisbon                     | 30.16                              | 61              | NNE   | 7                 | b  |          | 30.19                            | -.00                              | 51          | 45   | -.1                               | NNE   | 5                 | b   | 2        |                | 70             | 48   |                     |

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on

WEDNESDAY 19<sup>TH</sup> OCTOBER

1887.

## BAROMETER, WIND & SEA.

(Explanation of Map)

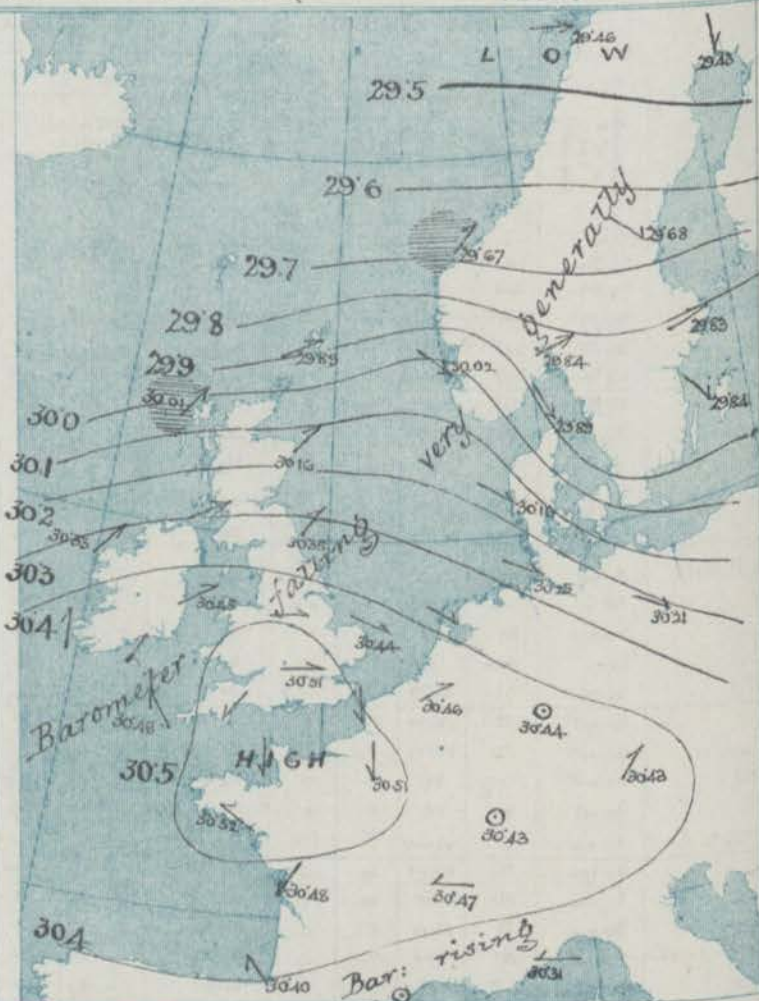
**Barometer** — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.  
**Wind** — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —  
 → = forces above 10; →→ = forces 8 to 10;  
 →→ = forces 5 to 7; → = 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 10 Years 1871—1880.

| STATIONS.     | MEAN READINGS. |
|---------------|----------------|
| Sumburgh Head | 29.685         |
| Stornoway     | 29.707         |
| Wick          | 29.718         |
| Nairn         | 29.738         |
| Aberdeen      | 29.748         |
| Leith         | 29.780         |
| Shields       | 29.821         |
| York          | 29.860         |
| Ardrossan     | 29.740         |
| Donaghadee    | 29.805         |
| Holyhead      | 29.830         |
| Liverpool     | 29.848         |
| Valencia      | 29.842         |
| Roche's Point | 29.848         |
| Pembroke      | 29.847         |
| Scilly        | 29.877         |
| Hurst Castle  | 29.894         |
| Dover         | 29.907         |
| LONDON        | 29.902         |
| Oxford        | 29.891         |
| Cambridge     | 29.894         |
| Yarmouth      | 29.889         |



## TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

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

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of October

| STATIONS      | TEMPERATURE |            |           |           | RAINFALL (Inches) |
|---------------|-------------|------------|-----------|-----------|-------------------|
|               | Daily Max   | Daily Min. | At 8 a.m. | At 8 p.m. |                   |
| Sumburgh Head | 49.5        | 41.6       | 45.9      | 44.4      | 4.33              |
| Stornoway     | 50.2        | 38.8       | 45.1      | 43.9      | 4.94              |
| Wick          | 51.8        | 40.0       | 46.0      | 44.3      | 2.94              |
| Nairn         | 51.4        | 40.7       | 44.6      | 42.5      | 2.38              |
| Aberdeen      | 52.1        | 41.3       | 45.5      | 43.5      | 2.88              |
| Leith         | 55.3        | 41.9       | 46.7      | 45.1      | 1.94              |
| Shields       | 53.2        | 43.1       | 47.3      | 45.5      | 2.46              |
| York          | 55.2        | 40.9       | 46.0      | 44.7      | 2.64              |
| Ardrossan     | 53.7        | 43.2       | 47.7      | 45.4      | 4.31              |
| Donaghadee    | 53.2        | 43.2       | 47.8      | 46.8      | 3.35              |
| Holyhead      | 54.9        | 47.5       | 50.4      | 48.6      | 4.53              |
| Liverpool     | 54.0        | 44.9       | 48.0      | 46.2      | 3.02              |
| Valencia      | 56.7        | 46.5       | 51.3      | 49.1      | 6.09              |
| Roche's Point | 55.6        | 46.4       | 50.4      | 48.6      | 4.17              |
| Pembroke      | 55.1        | 48.4       | 51.5      | 49.4      | 4.13              |
| Scilly        | 56.8        | 50.7       | 53.9      | 52.0      | 3.84              |
| Hurst Castle  | 57.7        | 46.8       | 51.5      | 50.5      | 3.24              |
| Dover         | 56.2        | 47.8       | 51.5      | 49.4      | 3.28              |
| LONDON        | 57.1        | 43.5       | 48.4      | 46.9      | 2.74              |
| Oxford        | 55.7        | 42.9       | 47.0      | 45.8      | 2.72              |
| Cambridge     | 57.0        | 41.6       | 46.6      | 45.7      | 2.98              |
| Yarmouth      | 54.9        | 45.1       | 49.5      | 48.2      | 2.97              |

Note — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 20 years 1866—85





## GENERAL SITUATION AT 8 A.M.

|             |  |
|-------------|--|
| PRESSURE    | Highest 30.5 ins. and upwards in an anticyclone lying over the south of England, the Channel, and the North of France.<br>Lowest 29.5 ins. and less in the North of Scandinavia.<br>Gradients rather steep over Scotland and the North Sea. Barometer falling generally, - most in North |
| TEMPERATURE | Highest 55° at Valencia, and 53° at Stornoway, Wick, Naism, Belmullet and Roche's Point<br>Lowest 23° at Ayuparanda, 30° at Lyons, 40° at Munich, 41° at Herissand and 42° at Stockholm and Riga   |
| WIND        | Moderate or fresh from the S.W. and on our western and northern coasts.<br>W. or N.W. over the North Sea and the adjacent coast.<br>Light N. or N.E. over the Channel and extreme south of England; moderate E. in the West of France  |
| WEATHER     | Fair generally but dull on our extreme North and north-west coasts as well as over England, Germany and the E. of France.<br>Mist or fog is reported at many of our eastern stations, and rain is falling at Christiansund   |
| SEA         | Rather rough at Christiansund and Stornoway but moderate to smooth elsewhere   |



### PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are at present no decided indications of the approach of any serious depression towards our coasts, but the tendency is for an increase in the steepness of the gradients over the Northern parts of the Kingdom, with rain in places.

## FORECASTS

for the 24 hours ending at NOON on 20<sup>th</sup> October 1887.

| DISTRICTS.         | FORECASTS.   | DISTRICTS.       | FORECASTS.   |
|--------------------|--|------------------|--|
| 0 SCOTLAND NORTH   | SW and W winds, strong; dull, some rain.                         | 6 SCOTLAND WEST  | Same as N° 0.  |
| 1 SCOTLAND EAST    | W and SW winds, moderate or fresh; fair to cloudy and some rain. | 7 ENGLAND N.W.   | Same as N° 1 and 2.  |
| 2 ENGLAND N.E.     | -----D-----D-----D-----  | 8 ENGLAND S.W.   | S and SW winds, moderate or fresh; fair generally.                 |
| 3 ENGLAND EAST     | Same as N° 5.  | 9 IRELAND NORTH  | SW winds, moderate, to S strong; cloudy generally, with some rain. |
| 4 MIDLAND COUNTIES | Same as N° 5.  | 10 IRELAND SOUTH | -----D-----D-----D-----  |
| 5 ENGLAND SOUTH    | N to SW winds, 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.

|                   | Bar.  | Dry. | Wet. | Wind. | Wen. | Sea. |   | Bar.          | Dry.  | Wet. | Wind. | Wen. | Sea. |    |   |
|-------------------|-------|------|------|-------|------|------|---|---------------|-------|------|-------|------|------|----|---|
| Skudesnaes ...    | 30.10 | 51   | 50   | WNW   | 6    | rf   | 4 | Holyhead ...  | 30.58 | 50   | 46    | W    | 2    | 0  | 2 |
| Sumburgh Head ... | 30.09 | 51   | 50   | W     | 4    | 0    | 4 | Valencia ...  | 30.56 | 54   | 49    | SSE  | 4    | 0  | 4 |
| Stornoway ...     | 30.25 | 53   | 52   | SW    | 5    | op   | 4 | Scilly ...    | 30.60 | 57   | 52    | SSE  | 1    | c  | 1 |
| Aberdeen ...      | 30.33 | 54   | 50   | W     | 2    | c    | 1 | Dungeness ... | 30.54 | 50   | 46    | N    | 3    | c  | 2 |
| Shields ...       | 30.45 | 51   | 48   | WSW   | 3    | 0    | 2 | London ...    | 30.57 | 51   | 46    | NYW  | 3    | c  | * |
| Ardrossan ...     | 30.45 | 52   | 51   | WSW   | 5    | 0    | 3 | Yarmouth ...  | 30.56 | 47   | 44    | NW   | 3    | cm | 4 |
| Malin Head ...    | 30.46 | 51   | 49   | WSW   | 2    | 0    | 3 | Jersey ...    | 30.60 | 58   | 52    | NNW  | 2    | b  | 2 |
| Mullaghmore ...   | 30.51 | 51   | 48   | SSW   | 5    | 0    | 2 | Rochefort ... | 30.56 | 57   | 53    | NE   | 5    | bc | 2 |
| Belmullet ...     | 30.51 | 53   | 49   | SW    | 2    | 0    | * |               |       |      |       |      |      |    |   |

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

The reports for yesterday morning showed that pressure then varied from 30.6 ins. and more over Brittany, the southwestern counties of England, and the southern half of Ireland, to between 29.3 and 29.5 over Lapland, and the shores of the White Sea, to about 29.7 in over southern Russia, and to about 30.1 ins. in the extreme southwest of Spain. The anticyclone recently prevalent was giving way slowly and depressions were succeeding one another in an easterly direction, along the northwest of Europe. W. and S.W. winds were consequently becoming more and more prevalent over all the Northern districts, temperature was increasing irregularly, and showery weather becoming more prevalent. In the south, however, the wind continued N.E. and the weather fine but over Germany it was N.W. and the weather cloudy and showery. Temperature varied from 60° and more over the southeastern and southern parts of the Mediterranean and from upwards of 50° along the western parts of the British Isles, to a little below the freezing point at the Northern extremity of the Gulf of Bothnia. The highest individual values were 63° at Malta, 61° at Algiers and Odessa, 59° at Palma, San Fernando and Oporto, and 52° at Valencia. In the Azores the thermometer stood as high as 70°. The lowest were 26° at Haparanda, 32° at Archangel, 33° at Uleaborg, Kuopio, Warsaw and Moscow, 34° at Breslau and 37° at Paris and Munich. During the day the barometer continued to fall generally, and the W. winds showed signs of becoming still stronger in the N.W. and N.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for Thursday 20<sup>th</sup> OCTOBER. 1887.

Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

| 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. |  |  |
|                            |                                    |                 | 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 ..               | 29.29                              | 33              | Z     | 0                 | o        | 28.63                            | -.60                              | 39          | 38   | + 16                              | S     | 2                 | r        | *              | ?           | 23   | 0.36                |  |  |
| Hernösand ..               | 29.38                              | 44              | SW    | 2                 | r        | 29.09                            | -.59                              | 42          | 40   | + 1                               | Z     | 0                 | c        | *              | 52          | 39   | 0.04                |  |  |
| Stockholm ..               | 29.66                              | 45              | SW    | 2                 | o        | 29.29                            | -.54                              | 47          | 46   | + 5                               | SW    | 4                 | r        | *              | 55          | 39   | —                   |  |  |
| Wisby ..                   | 29.78                              | 50              | W     | 4                 | b        | 29.48                            | -.36                              | 50          | 47   | + 2                               | WSW   | 6                 | o        | *              | 50          | 43   | —                   |  |  |
| Bodö ..                    | 29.12                              | 40              | ESE   | 4                 | r        | 29.01                            | -.45                              | 41          | 38   | - 2                               | NW    | 2                 | c        | 1              | ?           | 37   | 0.55                |  |  |
| Christiansund...           | 29.27                              | 47              | SW    | 8                 | r        | 29.29                            | -.38                              | 42          | 39   | - 6                               | W     | 8                 | r        | 6              | 50          | 241  | 1.65                |  |  |
| Skudesnaes ..              | 29.76                              | 51              | W     | 8                 | r        | 29.77                            | -.25                              | 45          | 41   | - 6                               | WNW   | 8                 | o        | 5              | 53          | ?    | —                   |  |  |
| Christiania Fjord (Færder) | 29.71                              | 52              | SW    | 7                 | b        | 29.48                            | -.36                              | 47          | 41   | - 4                               | WSW   | 6                 | b        | 4              | 54          | 46   | —                   |  |  |
| Skagen (The Scaw)          | 29.82                              | 48              | WNW   | 7                 | b        | 29.61                            | -.28                              | 48          | 43   | - 2                               | WNW   | 8                 | b        | 5              | 52          | 46   | —                   |  |  |
| Fanö ..                    | 30.08                              | 50              | W     | 4                 | o        | 29.95                            | -.21                              | 49          | 46   | - 1                               | NW    | 6                 | b        | *              | 54          | 48   | —                   |  |  |
| BRITISH ISLANDS.           |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |                |             |      |                     |  |  |
| Sumburgh Head              | 29.71                              | 49              | WSW   | 5                 | o        | 29.92                            | + .03                             | 41          | 39   | - 10                              | NNW   | 6                 | c        | 6              | 52          | 39   | 0.18                |  |  |
| Stornoway ..               | 29.96                              | 48              | SW    | 4                 | op       | 30.18                            | + .17                             | 44          | 43   | - 9                               | NW    | 4                 | bc       | 3              | 54          | 41   | 0.33                |  |  |
| Wick ..                    | 29.88                              | 50              | WNW   | 4                 | o        | 30.12                            | + .10                             | 45          | 40   | - 8                               | NW    | 3                 | c        | 2              | 56          | 40   | 0.20                |  |  |
| Nairn ..                   | 29.97                              | 50              | W     | r                 | b        | 30.16                            | + .07                             | 45          | 43   | - 8                               | SW    | 1                 | b        | 1              | 57          | 44   | 0.12                |  |  |
| Aberdeen...                | 29.97                              | 53              | SW    | 3                 | o        | 30.16                            | .00                               | 44          | 40   | - 5                               | W     | 3                 | b        | 1              | 57          | 41   | —                   |  |  |
| Leith ..                   | 30.09                              | 48              | W     | 5                 | bc       | 30.24                            | -.02                              | 46          | 42   | - 4                               | W     | 1                 | bc       | *              | 56          | 44   | —                   |  |  |
| Shields ..                 | 30.16                              | 51              | SW    | 5                 | b        | 30.26                            | -.09                              | 47          | 44   | 0                                 | W     | 3                 | b        | 2              | 55          | 43   | —                   |  |  |
| Spurn Head ..              | 30.30                              | 50              | SW    | 3                 | c        | 30.28                            | -.14                              | 50          | 49   | + 2                               | WNW   | 4                 | c        | 2              | 51          | 44   | 0.02                |  |  |
| York ..                    | 30.29                              | 52              | W     | 4                 | o        | 30.30                            | -.11                              | 48          | 44   | + 1                               | W     | 1                 | bc       | *              | 54          | 46   | —                   |  |  |
| Loughborough               | 30.37                              | 49              | W     | 2                 | bc       | 30.34                            | -.14                              | 47          | 46   | + 2                               | W     | 2                 | cm       | *              | 56          | 45   | —                   |  |  |
| Ardrossan ..               | 30.16                              | 64              | SSW   | 5                 | o        | 30.30                            | .00                               | 50          | 48   | - 2                               | WNW   | 4                 | c        | 3              | 54          | 48   | 0.08                |  |  |
| Malin Head ..              | 30.16                              | 53              | WSW   | 5                 | cm       | 30.03                            | + .07                             | 50          | 47   | - 1                               | NNW   | 3                 | cm       | 2              | 54          | 49   | 0.08                |  |  |
| Mullaghmore ..             | 30.27                              | 53              | SW    | 4                 | or       | 30.40                            | + .06                             | 49          | 45   | - 1                               | NNW   | 4                 | c        | 3              | 54          | 46   | 0.06                |  |  |
| Belmullet ..               | 30.29                              | 53              | SW    | 5                 | o        | 30.44                            | + .11                             | 44          | 42   | - 9                               | N     | 2                 | c        | *              | 54          | 44   | 0.06                |  |  |
| Donaghadee ..              | 30.27                              | 53              | WSW   | 4                 | o        | 30.37                            | -.01                              | 45          | 44   | - 3                               | WNW   | 3                 | c        | 2              | 54          | 44   | —                   |  |  |
| Barrow-in-Furness          | 30.30                              | 53              | SW    | 4                 | o        | 30.32                            | -.08                              | 49          | 45   | - 1                               | NW    | 2                 | c        | *              | 53          | 48   | —                   |  |  |
| Liverpool (Bidston)        | 30.36                              | 50              | WSW   | 2                 | o        | 30.36                            | -.08                              | 48          | 48   | + 1                               | NNW   | 2                 | o        | 2              | 54          | 47   | 0.01                |  |  |
| Holyhead ..                | 30.37                              | 53              | SW    | 4                 | c        | 30.38                            | -.07                              | 51          | 49   | + 1                               | NNW   | 3                 | o        | 2              | 55          | 50   | —                   |  |  |
| Parsonstown ..             | 30.37                              | 53              | Z     | 0                 | o        | 30.43                            | -.04                              | 50          | 48   | + 6                               | Z     | 0                 | r        | *              | 55          | 42   | —                   |  |  |
| Valencia ..                | 30.39                              | 55              | S     | 2                 | cm       | 30.43                            | + .04                             | 54          | 52   | 0                                 | ESE   | 2                 | o        | 3              | 55          | 52   | —                   |  |  |
| Roche's Point...           | 30.41                              | 53              | WSW   | 3                 | c        | 30.42                            | -.04                              | 52          | 50   | - 1                               | NW    | 1                 | cm       | 3              | 54          | 38   | —                   |  |  |
| Pembroke ..                | 30.42                              | 52              | SW    | 3                 | c        | 30.41                            | -.08                              | 53          | 53   | + 2                               | W     | 2                 | og       | 2              | 54          | 50   | —                   |  |  |
| Scilly ..                  | 30.42                              | 50              | SSW   | 2                 | c        | 30.43                            | -.05                              | 51          | 49   | - 1                               | Z     | 0                 | c        | 3              | 57          | 48   | —                   |  |  |
| Prawle Point ..            | 30.47                              | 48              | WNW   | 1                 | bc       | 30.47                            | -.05                              | 47          | 45   | - 5                               | NW    | 1                 | c        | 1              | 55          | 41   | —                   |  |  |
| Jersey ..                  | 30.46                              | 49              | N     | 1                 | bc       | 30.46                            | -.07                              | 45          | 44   | - 2                               | Z     | 0                 | mw       | 0              | 56          | 37   | —                   |  |  |
| Hurst Castle ..            | 30.46                              | 48              | WSW   | 2                 | b        | 30.42                            | -.12                              | 50          | 48   | + 6                               | WNW   | 2                 | bc       | 1              | 52          | 40   | —                   |  |  |
| Dungeness ..               | 30.42                              | 45              | NNW   | 2                 | o        | 30.37                            | -.11                              | 47          | 45   | + 3                               | WNW   | 4                 | c        | 3              | 57          | 37   | —                   |  |  |
| London ..                  | 30.44                              | 43              | W     | 2                 | cm       | 30.39                            | -.12                              | 44          | 43   | - 2                               | W     | 1                 | bc       | *              | 49          | 35   | —                   |  |  |
| Oxford ..                  | 30.42                              | 45              | W     | 2                 | b        | 30.39                            | -.13                              | 43          | 42   | - 1                               | WSW   | 2                 | og       | *              | 52          | 39   | —                   |  |  |
| Cambridge ..               | 30.40                              | 44              | SW    | 1                 | b        | 30.35                            | -.13                              | 47          | 45   | 0                                 | W     | 1                 | or       | *              | 54          | 36   | —                   |  |  |
| Yarmouth ..                | 30.37                              | 45              | WSW   | 2                 | bc       | 30.29                            | -.15                              | 46          | 44   | 0                                 | W     | 3                 | bc       | 2              | 49          | 39   | —                   |  |  |
| Cuxhaven ..                | 30.23                              | 46              | W     | 3                 | o        | 30.09                            | -.16                              | 50          | 50   | - 1                               | W     | 5                 | r        | *              | 52          | 46   | 0.04                |  |  |
| Berlin ..                  | 30.24                              | 49              | NW    | 2                 | o        | 30.15                            | -.06                              | 47          | 44   | - 1                               | W     | 4                 | o        | *              | 52          | 46   | 0.12                |  |  |
| Wiesbaden ..               | *                                  | *               | *     | *                 | *        | 30.39                            | -.05                              | 47          | 43   | 0                                 | NW    | 2                 | o        | *              | 48          | 45   | —                   |  |  |
| Munich ..                  | 30.42                              | 41              | W     | 1                 | o        | 30.39                            | -.04                              | 40          | 39   | 0                                 | Z     | 0                 | o        | *              | 45          | 37   | —                   |  |  |
| FRANCE & NETHERLANDS.      |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |                |             |      |                     |  |  |
| The Helder ..              | 30.30                              | 49              | WSW   | 4                 | o        | 30.24                            | -.14                              | 50          | 49   | 0                                 | W     | 4                 | f        | 3              | 50          | 48   | —                   |  |  |
| Brussels ..                | *                                  | *               | *     | *                 | *        | 30.38                            | -.08                              | 44          | 42   | - 2                               | SSW   | 5                 | o        | *              | 50          | 43   | —                   |  |  |
| Cape Gris Nez...           | 30.42                              | 48              | WSW   | 1                 | m        | 30.36                            | -.09                              | 49          | 46   | + 1                               | W     | 5                 | o        | 2              | 52          | 45   | —                   |  |  |
| Paris ..                   | 30.47                              | 45              | NE    | 1                 | o        | 30.44                            | -.07                              | 33          | 33   | - 10                              | SE    | 1                 | bc       | *              | 49          | 33   | —                   |  |  |
| Brest ..                   | 30.47                              | 49              | ENE   | 4                 | b        | 30.41                            | -.12                              | 41          | 40   | - 4                               | ENE   | 4                 | b        | 2              | 59          | ?    | —                   |  |  |
| Lorient ..                 | 30.44                              | 51              | Z     | 0                 | b        | 30.44                            | -.08                              | 40          | 39   | - 5                               | ENE   | 3                 | b        | 2              | 57          | 39   | —                   |  |  |
| Roche fort ..              | 30.41                              | 51              | ENE   | 7                 | m        | 30.37                            | -.11                              | 40          | 39   | - 3                               | ENE   | 7                 | m        | 2              | 59          | 36   | —                   |  |  |
| Belfort ..                 | 30.39                              | 46              | NE    | 3                 | o        | ?                                | ?                                 | 42          | 40   | - 3                               | E     | 1                 | b        | *              | 50          | 32   | —                   |  |  |
| Lyons ..                   | 30.43                              | 44              | NNW   | 1                 | o        | 30.41                            | -.06                              | 38          | 36   | - 1                               | WNW   | 1                 | b        | *              | 48          | 37   | —                   |  |  |
| Nice ..                    | 30.29                              | 52              | Z     | 0                 | b        | 30.31                            | -.00                              | 49          | 45   | - 1                               | E     | 3                 | b        | 2              | 61          | 41   | —                   |  |  |
| Perpignan ..               | 30.38                              | 47              | Z     | 0                 | b        | 30.35                            | -.03                              | 45          | 42   | + 8                               | E     | 1                 | o        | *              | 64          | 37   | —                   |  |  |
| Biarritz ..                | 30.38                              | 47              | ENE   | 4                 | b        | 30.28                            | -.12                              | 41          | 41   | - 1                               | ESE   | 4                 | b        | 0              | 57          | 41   | —                   |  |  |
| Corunna ..                 | *                                  | *               | *     | *                 | *        | 30.20                            | -.07                              | 50          | 48   | + 5                               | E     | 3                 | b        | 3              | 66          | 43   | —                   |  |  |
| Lisbon ..                  | 30.12                              | 62              | NNE   | 5                 | b        | 30.14                            | -.05                              | 53          | 49   | + 2                               | NE    | 7                 | b        | 2              | 66          | 51   | —                   |  |  |

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on

Thursday 20<sup>th</sup> October

1887.

## BAROMETER, WIND & 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.

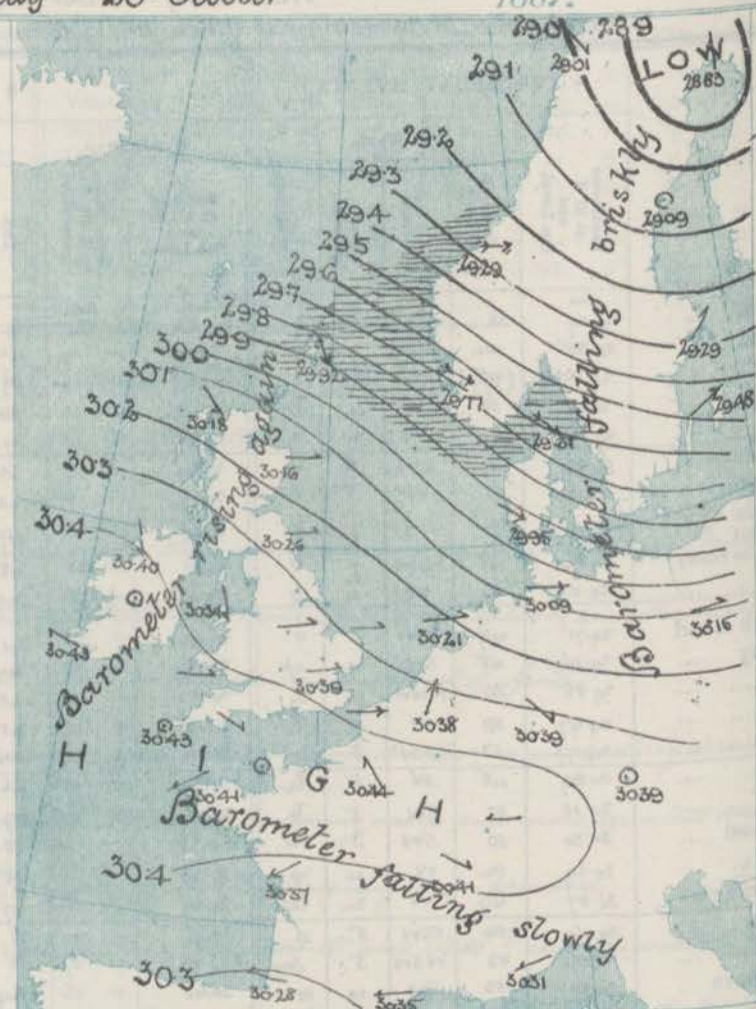
**Sea Disturbance** — where considerable is shown thus

■ = Rough. ■ = High.

## MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of October  
During the 10 Years 1871—1880.

| STATIONS.     | MEAN READINGS. |
|---------------|----------------|
| Sumburgh Head | 29.885         |
| Stornoway     | 29.707         |
| Wick          | 29.715         |
| Nairn         | 29.738         |
| Aberdeen      | 29.748         |
| Leith         | 29.780         |
| Shields       | 29.831         |
| York          | 29.860         |
| Ardrossan     | 29.749         |
| Donaghadee    | 29.805         |
| Holyhead      | 29.830         |
| Liverpool     | 29.848         |
| Valencia      | 29.842         |
| Roche's Point | 29.843         |
| Pembroke      | 29.847         |
| Soilly        | 29.877         |
| Hurst Castle  | 29.894         |
| Dover         | 29.907         |
| LONDON        | 29.902         |
| Oxford        | 29.891         |
| Cambridge     | 29.894         |
| Yarmouth      | 29.889         |



## 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.<br>(Inches) |
|----------------|--------------|---------------|-----------|------|-----------------------|
|                | Daily<br>Max | Daily<br>Min. | At 8 a.m. |      |                       |
|                |              |               | Dry.      | Wet. |                       |
| Sumburgh Head. | 49.5         | 41.6          | 45.9      | 44.4 | 4.33                  |
| Stornoway.     | 50.2         | 38.8          | 45.1      | 43.9 | 4.94                  |
| Wick           | 51.8         | 40.0          | 46.0      | 44.3 | 2.94                  |
| Nairn          | 51.4         | 40.7          | 44.6      | 42.5 | 2.38                  |
| Aberdeen.      | 52.1         | 41.3          | 45.5      | 43.5 | 2.88                  |
| Leith          | 53.3         | 41.9          | 46.7      | 45.1 | 1.94                  |
| Shields        | 53.2         | 43.1          | 47.3      | 45.5 | 2.46                  |
| York           | 55.2         | 40.9          | 46.0      | 44.7 | 2.64                  |
| Ardrossan      | 53.7         | 43.2          | 47.7      | 45.4 | 4.31                  |
| Donaghadee     | 53.2         | 43.2          | 47.8      | 46.8 | 3.35                  |
| Holyhead       | 54.9         | 47.5          | 50.4      | 48.6 | 4.53                  |
| Liverpool      | 54.0         | 44.9          | 48.0      | 46.2 | 3.62                  |
| Valencia       | 56.7         | 46.5          | 51.3      | 49.1 | 6.09                  |
| Roche's Point  | 55.6         | 46.4          | 50.4      | 48.6 | 4.17                  |
| Pembroke       | 55.1         | 48.4          | 51.5      | 49.4 | 4.13                  |
| Seilly         | 56.8         | 50.7          | 53.9      | 52.0 | 3.84                  |
| Hurst Castle.  | 57.7         | 46.8          | 51.5      | 50.5 | 3.24                  |
| Dover          | 56.2         | 47.8          | 51.5      | 49.4 | 3.28                  |
| LONDON.        | 57.1         | 43.5          | 48.4      | 46.9 | 2.74                  |
| Oxford         | 55.7         | 42.9          | 47.0      | 45.8 | 2.72                  |
| Cambridge      | 57.0         | 41.6          | 46.6      | 45.7 | 2.36                  |
| Yarmouth       | 54.9         | 45.1          | 49.5      | 48.2 | 2.97                  |

NOTE — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 10 years 1868—85





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.4 in. and upwards, over the south of Ireland, the southwest of England and the north and east of France.  
 Lowest, 28.9 in. and less, in a depression having its centre over the north of Sweden.  
 Gradients, steep over the eastern shores of the North Sea. Barometer rising on our western and northern coasts, falling elsewhere.

## TEMPERATURE

Highest, 54° at Valencia, 53° at Pembroke and Biston, 52° at Roches Point and 51° at Holyhead and Scilly.  
 Lowest, 33° at Paris, 38° at Lyons, 39° at Haparanda, 40° at Munich and 44° at Bodo.

## WIND

W<sup>ly</sup> or NW<sup>ly</sup> over our islands and the eastern shores of the North Sea; strong to a gale in Norway and Denmark, but light or moderate SW<sup>ly</sup> in Sweden; E<sup>ly</sup> in the west and south of France.  
 [Strong breezes or moderate gales from between SW and W have been experienced on our extreme north and northwest coasts.]

## WEATHER

Fair generally, but dull in places, with rain at Haparanda, Christiansund, Personstoun and Cambridge.  
 [Since yesterday morning rain has fallen at many of the northern stations, the largest amount being 1.7 in. at Christiansund and 0.6 in. at Bodo.]

## SEA

Rough off the Shetlands and the west of Norway, but slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression over Sweden will probably continue to travel eastwards, and NW<sup>ly</sup> winds are likely to become general for a time. There is at present no sign of any new disturbance.

## FORECASTS

For the 24 hours ending at NOON on 21<sup>st</sup> October 1887.

### DISTRICTS.

### FORECASTS.

|   |                  |  |
|---|------------------|--|
| 0 | SCOTLAND NORTH   | N <sup>ly</sup> and NW <sup>ly</sup> winds, moderate or fresh; fair generally, but perhaps some showers. |
| 1 | SCOTLAND EAST    | -----D-----D-----D-----  |
| 2 | ENGLAND N.E.     | -----D-----D-----D-----  |
| 3 | ENGLAND EAST     | Same as N <sup>o</sup> 5.  |
| 4 | MIDLAND COUNTIES | Same as N <sup>o</sup> 5.  |
| 5 | ENGLAND SOUTH    | N <sup>ly</sup> to NW <sup>ly</sup> winds, moderate; fair generally, but slight rain locally.            |

### DISTRICTS.

### FORECASTS.

|    |               |  |
|----|---------------|--|
| 6  | SCOTLAND WEST | NW <sup>ly</sup> winds, moderate or fresh; changeable, some showers. |
| 7  | ENGLAND N.W.  | NW <sup>ly</sup> winds, light or moderate; fair generally.           |
| 8  | ENGLAND S.W.  | -----D-----D-----D-----  |
| 9  | IRELAND NORTH | Same as N <sup>o</sup> 6.  |
| 10 | IRELAND SOUTH | Variable or NW <sup>ly</sup> winds; fair generally.                  |

### WARNINGS

The SOUTH CONE was hoisted yesterday in districts 0, 6, 9 and part of 1, but the SIGNALS have been lowered this morning.

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



# YESTERDAY'S 2 P.M. REPORTS.

|                   | Bar.  | Dry. | Wet. | Wind. | Wea. | Sea. |   | Bar.          | Dry.  | Wet. | Wind. | Wea. | Sea. |    |   |
|-------------------|-------|------|------|-------|------|------|---|---------------|-------|------|-------|------|------|----|---|
| Skudesnaes ...    | 29.95 | 52   | 50   | W     | 6    | of   | 4 | Holyhead ...  | 30.40 | 54   | 49    | SW   | 4    | bc | 3 |
| Sumburgh Head ... | 29.70 | 51   | 51   | WSW   | 6    | r    | 5 | Valencia ...  | 30.39 | 55   | 51    | S    | 3    | om | 3 |
| Stornoway ...     | 29.87 | 54   | 53   | SW    | 6    | r    | 6 | Scilly ...    | 30.44 | 54   | 51    | S    | 4    | bc | 3 |
| Aberdeen ...      | 30.03 | 55   | 51   | WSW   | 3    | cr   | 0 | Dungeness ... | 30.45 | 51   | 46    | NNW  | 2    | o  | 1 |
| Shields ...       | 30.24 | 54   | 47   | SW    | 2    | bc   | 2 | London ...    | 30.47 | 49   | 44    | W    | 2    | o  | 3 |
| Ardrossan ...     | 30.22 | 53   | 51   | SSW   | 6    | o    | 5 | Yarmouth ...  | 30.40 | 49   | 46    | WNW  | 3    | c  | 1 |
| Malin Head ...    | 30.17 | 54   | 51   | WSW   | 5    | o    | 4 | Jersey ...    | 30.48 | 49   | 44    | NE   | 1    | bc | 2 |
| Mullaghmore ...   | 30.28 | 54   | 50   | SW    | 4    | om   | 3 | Rochefort ... | 30.45 | 57   | 52    | ENE  | 5    | m  |   |
| Belmullet ...     | 30.27 | 54   | 52   | SW    | 5    | o    | * |               |       |      |       |      |      |    |   |

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

The reports for yesterday (Wednesday) morning showed that the anticyclone recently observed over the British Islands was still moving steadily in a southerly direction, and decreasing in intensity, while the advance of depressions from the W<sup>nd</sup> along the extreme northern coasts of Lapland and Russia (and the disturbances seemed to be growing deeper) continued also. Readings at 8 a.m. varied from 30.5 ins. and more over Brittany and the south of England, and from 30.3 ins. and more, over the whole of Ireland, England, and France to 29.4 ins. over Lapland and to 29.2 ins. on the shores of the White Sea. Increasing S<sup>th</sup> breezes were reported on our west coast, and strong W<sup>th</sup> winds (with gales locally) over Northern Europe, the weather being, mild, changeable, and in some places showery. In Germany and the east of France the wind was NW<sup>th</sup> and the weather more showery, while over France and Southern Europe generally NE<sup>th</sup> winds continued, with fine bright weather. Temperature was increasing at all the northern and north-western stations, falling over Algeria, and varied from 60° and more over the eastern and southern parts of the Mediterranean, and from upwards of 50° over all the western and northern parts of our Islands to several degrees below the freezing point in Northern Europe, and to very little above that value over Central France, where frost prevailed on the ground. The highest individual values were 64° at Malta and Tunis, 62° at Palermo, 61° at Brindisi, 57° at Langunairi, and 54° at Valencia. (The Madeira report is not to hand.) The lowest were 23° at Haparanda, 31° at Archangel, 32° at Moscow and Clermont, 34° at Warsaw, 36° at Hanko, and 39° at Lyons.

During the day the barometer continued to fall over Northwestern Europe and the anticyclone to move southwards. A subsidiary V shaped depression in the northwest caused very strong SW<sup>th</sup> winds and rain in that region, after which the wind veered to NW and moderated.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for Friday 21<sup>st</sup> October

1887.

Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

| STATIONS.                     | + YESTERDAY EVENING.               |                 |       |                   |          | 8 A.M. TO DAY.                   |                                   |             |      |                                   |       |                   |                |             |      | PAST 24 HOURS.      |      |  |
|-------------------------------|------------------------------------|-----------------|-------|-------------------|----------|----------------------------------|-----------------------------------|-------------|------|-----------------------------------|-------|-------------------|----------------|-------------|------|---------------------|------|--|
|                               | Barometer at 32° F. and Sea Level. | Temp. in Shade. | WIND. |                   | Weather. | BAROMETER.                       |                                   | SHADE TEMP. |      |                                   | WIND. |                   | Sea. (0 to 9.) | SHADE TEMP. |      | Amount of Rainfall. |      |  |
|                               |                                    |                 | Dir.  | Force. (0 to 12.) |          | Reading at 8 A.M. and Sea Level. | Difference from 8 a.m. yesterday. | Dry.        | Wet. | Difference from 8 a.m. yesterday. | Dir.  | Force. (0 to 12.) |                | Weather.    | Max. |                     | Min. |  |
| Haparanda ..                  | 28.95                              | 27              | N     | 5                 | S        | 29.35                            | + 52                              | 30          | 28   | - 2                               | N     | 4                 | C              | *           | 41   | 27                  | -    |  |
| Hernösand ...                 | 29.28                              | 40              | NW    | 6                 | b        | 29.53                            | + 44                              | 37          | 33   | - 4                               | N     | 6                 | O              | *           | 48   | 27                  | -    |  |
| Stockholm ...                 | 29.41                              | 42              | W     | 4                 | c        | 29.59                            | + 30                              | 37          | 32   | - 5                               | W     | 4                 | C              | *           | 50   | 27                  | -    |  |
| Wishby ...                    | 29.50                              | 47              | NW    | 8                 | b        | 29.60                            | + 12                              | 42          | 38   | - 4                               | NW    | 6                 | b              | *           | 52   | 27                  | -    |  |
| Bodö ...                      | 29.27                              | 39              | NNE   | 4                 | m        | 29.61                            | + 60                              | 39          | 35   | - 4                               | NW    | 2                 | b              | 1           | 41   | 36                  | 0.16 |  |
| Christiansund...              | 29.56                              | 40              | NW    | 8                 | r        | 29.94                            | + 65                              | 41          | 37   | - 4                               | NW    | 4                 | C              | 7           | 43   | 37                  | 0.39 |  |
| Skudesnaes ...                | 29.94                              | 41              | NW    | 8                 | c        | 30.13                            | + 36                              | 41          | 37   | - 4                               | NW    | 8                 | C              | 5           | 45   | 41                  | -    |  |
| Christiania Fjord (Fæder) ... | 29.63                              | 44              | W     | 7                 | b        | 29.82                            | + 34                              | 45          | 37   | - 8                               | NW    | 5                 | b              | 3           | 50   | 27                  | -    |  |
| Skagen (The Scaw) ...         | 29.71                              | 43              | NW    | 8                 | b        | 29.84                            | + 28                              | 44          | 40   | - 4                               | N     | 5                 | b              | 4           | 50   | 41                  | -    |  |
| Fanø ...                      | 30.03                              | 42              | NW    | 6                 | b        | 30.08                            | + 13                              | 41          | 38   | - 3                               | NW    | 6                 | b              | *           | 52   | 39                  | 0.16 |  |
| Sumburgh Head ...             | 30.41                              | 44              | N     | 5                 | c        | 30.34                            | + 42                              | 37          | 34   | - 3                               | N     | 3                 | O              | 4           | 42   | 34                  | 0.07 |  |
| Stornoway ...                 | 30.32                              | 44              | NW    | 4                 | O        | 30.48                            | + 30                              | 38          | 37   | - 1                               | N     | 0                 | O              | 3           | 48   | 35                  | 0.06 |  |
| Wick ...                      | 30.30                              | 42              | N     | 3                 | b        | 30.46                            | + 34                              | 40          | 38   | - 2                               | NW    | 3                 | O              | 1           | 48   | 37                  | 0.05 |  |
| Nairn ...                     | 30.32                              | 43              | NW    | 3                 | r        | 30.50                            | + 34                              | 40          | 38   | - 2                               | N     | 0                 | b              | 1           | 50   | 39                  | 0.08 |  |
| Aberdeen ...                  | 30.28                              | 44              | NW    | 4                 | Op       | 30.46                            | + 30                              | 40          | 37   | - 3                               | NW    | 4                 | O              | 1           | 51   | 38                  | 0.08 |  |
| Leith ...                     | 30.34                              | 42              | W     | 2                 | b        | 30.51                            | + 27                              | 40          | 38   | - 2                               | W     | 1                 | b              | *           | 57   | 37                  | -    |  |
| Shields ...                   | 30.32                              | 46              | W     | 2                 | b        | 30.49                            | + 23                              | 43          | 40   | - 3                               | NW    | 2                 | O              | 3           | 55   | 36                  | -    |  |
| Spurn Head ...                | 30.34                              | 49              | NW    | 3                 | b        | 30.43                            | + 15                              | 43          | 42   | - 1                               | NW    | 4                 | b              | 2           | 51   | 40                  | -    |  |
| York ...                      | 30.34                              | 46              | W     | 1                 | b        | 30.48                            | + 18                              | 36          | 34   | - 2                               | NW    | 1                 | b              | *           | 54   | 33                  | -    |  |
| Loughborough ...              | 30.38                              | 48              | NW    | 1                 | b        | 30.49                            | + 15                              | 32          | 31   | - 1                               | NW    | 1                 | C              | *           | 56   | 30                  | -    |  |
| Adrossan ...                  | 30.38                              | 49              | NW    | 3                 | b        | 30.52                            | + 22                              | 39          | 39   | - 1                               | NE    | 1                 | b              | 1           | 53   | 36                  | -    |  |
| Malin Head ...                | 30.42                              | 49              | NW    | 3                 | b        | 30.53                            | + 20                              | 48          | 44   | - 4                               | NW    | 2                 | O              | 2           | 51   | 48                  | -    |  |
| Mullaghmore ...               | 30.47                              | 50              | NW    | 2                 | O        | 30.54                            | + 14                              | 49          | 44   | - 5                               | ESE   | 2                 | O              | 3           | 53   | 48                  | -    |  |
| Belmullet ...                 | 30.47                              | 49              | NNE   | 2                 | O        | 30.54                            | + 10                              | 48          | 44   | - 4                               | SSE   | 2                 | O              | *           | 54   | 44                  | -    |  |
| Donaghadee ...                | 30.43                              | 50              | W     | 3                 | O        | 30.53                            | + 16                              | 49          | 45   | - 4                               | NE    | 4                 | b              | 2           | 53   | 44                  | -    |  |
| Barrow-in-Furness ...         | 30.36                              | 50              | N     | 2                 | O        | 30.48                            | + 16                              | 40          | 38   | - 2                               | NE    | 1                 | b              | *           | 53   | 39                  | -    |  |
| Liverpool (Bidston) ...       | 30.40                              | 49              | NW    | 3                 | C        | 30.50                            | + 14                              | 43          | 40   | - 3                               | NE    | 1                 | b              | 2           | 53   | 42                  | -    |  |
| Holyhead ...                  | 30.43                              | 52              | NW    | 3                 | C        | 30.52                            | + 14                              | 50          | 45   | - 5                               | NNE   | 3                 | C              | 2           | 54   | 49                  | -    |  |
| Parsonstown ...               | 30.47                              | 47              | N     | 0                 | b        | 30.56                            | + 13                              | 33          | 32   | - 1                               | N     | 0                 | b              | *           | 53   | 32                  | -    |  |
| Valencia ...                  | 30.45                              | 63              | NW    | 1                 | Om       | 30.50                            | + 07                              | 49          | 47   | - 2                               | N     | 0                 | b              | 1           | 59   | 44                  | -    |  |
| Roche's Point...              | 30.42                              | 55              | NW    | 1                 | C        | 30.50                            | + 08                              | 49          | 45   | - 4                               | E     | 3                 | O              | 3           | 60   | 48                  | -    |  |
| Pembroke ...                  | 30.42                              | 51              | NNE   | 2                 | C        | 30.49                            | + 08                              | 49          | 48   | - 1                               | NE    | 2                 | O              | 1           | 55   | 46                  | -    |  |
| Scilly ...                    | 30.42                              | 50              | ENE   | 1                 | b        | 30.45                            | + 02                              | 53          | 51   | - 2                               | ENE   | 4                 | O              | 3           | 56   | 48                  | -    |  |
| Prawle Point ...              | 30.42                              | 52              | NW    | 2                 | C        | 30.44                            | + 02                              | 49          | 46   | - 3                               | NNE   | 3                 | C              | 2           | 56   | 45                  | -    |  |
| Jersey ...                    | 30.42                              | 50              | N     | 1                 | b        | 30.46                            | + 00                              | 53          | 50   | - 3                               | NE    | 2                 | Om             | 2           | 55   | 43                  | -    |  |
| Hurst Castle ...              | 30.39                              | 54              | W     | 1                 | C        | 30.47                            | + 05                              | 40          | 39   | - 1                               | NW    | 1                 | b              | 1           | 57   | 37                  | -    |  |
| Dungeness ...                 | 30.32                              | 53              | NW    | 2                 | b        | 30.41                            | + 04                              | 38          | 37   | - 1                               | NW    | 2                 | b              | 1           | 59   | 36                  | -    |  |
| London ...                    | 30.38                              | 49              | NW    | 1                 | b        | 30.46                            | + 07                              | 35          | 35   | - 1                               | N     | 0                 | b              | *           | 55   | 35                  | -    |  |
| Oxford ...                    | 30.42                              | 45              | NW    | 1                 | b        | 30.49                            | + 10                              | 35          | 34   | - 1                               | NW    | 1                 | b              | *           | 55   | 34                  | -    |  |
| Cambridge ...                 | 30.35                              | 48              | N     | 1                 | O        | 30.47                            | + 12                              | 38          | 37   | - 1                               | N     | 1                 | b              | *           | 56   | 34                  | 0.02 |  |
| Yarmouth ...                  | 30.32                              | 47              | NW    | 1                 | b        | 30.41                            | + 12                              | 43          | 42   | - 1                               | NW    | 2                 | b              | 3           | 52   | 38                  | -    |  |
| Cuxhaven ...                  | 30.10                              | 44              | W     | 5                 | C        | 30.15                            | + 06                              | 44          | 42   | - 2                               | NW    | 7                 | C              | *           | 50   | 44                  | 0.08 |  |
| Berlin ...                    | 30.10                              | 46              | NW    | 3                 | b        | 30.12                            | - 03                              | 42          | 40   | - 2                               | NW    | 4                 | C              | *           | 50   | 41                  | 0.04 |  |
| Wiesbaden ...                 | *                                  | *               | *     | *                 | *        | 30.05                            | - 04                              | 48          | 45   | - 3                               | N     | 1                 | O              | *           | 48   | 27                  | -    |  |
| Munich ...                    | 30.33                              | 44              | N     | 0                 | O        | 30.34                            | - 05                              | 40          | 39   | - 1                               | N     | 3                 | C              | *           | 45   | 39                  | 0.04 |  |
| The Helder ...                | 30.27                              | 49              | NW    | 3                 | b        | 30.32                            | + 11                              | 47          | 45   | - 2                               | N     | 3                 | C              | 3           | 52   | 46                  | 0.35 |  |
| Brussels ...                  | *                                  | *               | *     | *                 | *        | 30.39                            | + 01                              | 46          | 44   | - 2                               | NW    | 1                 | b              | *           | 52   | 27                  | 0.04 |  |
| Cape Gris Nez...              | 30.36                              | 51              | NW    | 1                 | m        | 30.41                            | + 06                              | 48          | 46   | - 2                               | N     | 4                 | C              | 3           | 55   | 48                  | -    |  |
| Paris ...                     | 30.40                              | 46              | N     | 1                 | O        | 30.41                            | - 03                              | 45          | 44   | - 1                               | N     | 0                 | O              | *           | 50   | 27                  | -    |  |
| Brest ...                     | 30.41                              | 57              | ENE   | 3                 | b        | 30.46                            | + 05                              | 42          | 40   | - 2                               | N     | 0                 | b              | 2           | 61   | 37                  | -    |  |
| Lorient ...                   | 30.40                              | 50              | ENE   | 3                 | b        | 30.42                            | - 02                              | 46          | 44   | - 2                               | E     | 1                 | b              | 2           | 55   | 39                  | -    |  |
| Rockfort ...                  | 30.54                              | 51              | ENE   | 4                 | b        | 30.39                            | + 02                              | 41          | 40   | - 1                               | NE    | 5                 | b              | 2           | 61   | 37                  | -    |  |
| Belfort ...                   | 30.37                              | 43              | SE    | 1                 | b        | 30.38                            | ?                                 | 41          | 40   | - 1                               | N     | 1                 | O              | *           | 48   | 35                  | -    |  |
| Lyons ...                     | 30.36                              | 41              | NW    | 1                 | b        | 30.38                            | - 03                              | 35          | 34   | - 1                               | NW    | 1                 | b              | *           | 50   | 34                  | -    |  |
| Nice ...                      | 30.19                              | 53              | E     | 3                 | b        | 30.16                            | - 15                              | 49          | 45   | - 4                               | E     | 3                 | b              | 1           | 61   | 45                  | -    |  |
| Perpignan ...                 | 30.25                              | 47              | N     | 0                 | b        | 30.25                            | - 10                              | 36          | 36   | - 1                               | N     | 0                 | b              | *           | 60   | 34                  | -    |  |
| Biarritz ...                  | 30.23                              | 59              | E     | 4                 | b        | 30.28                            | - 00                              | 48          | 46   | - 2                               | NW    | 1                 | b              | O           | 64   | 27                  | -    |  |
| Corunna ...                   | *                                  | *               | *     | *                 | *        | 30.16                            | + 02                              | 52          | 49   | - 3                               | NE    | 5                 | b              | 2           | 70   | 52                  | -    |  |
| Lisbon ...                    | 30.09                              | 62              | NE    | 5                 | b        | 30.16                            | + 02                              | 52          | 49   | - 3                               | NE    | 5                 | b              | 2           | 70   | 52                  | -    |  |

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on

Friday, 21<sup>st</sup> October.

1887.

## BAROMETER, WIND & 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

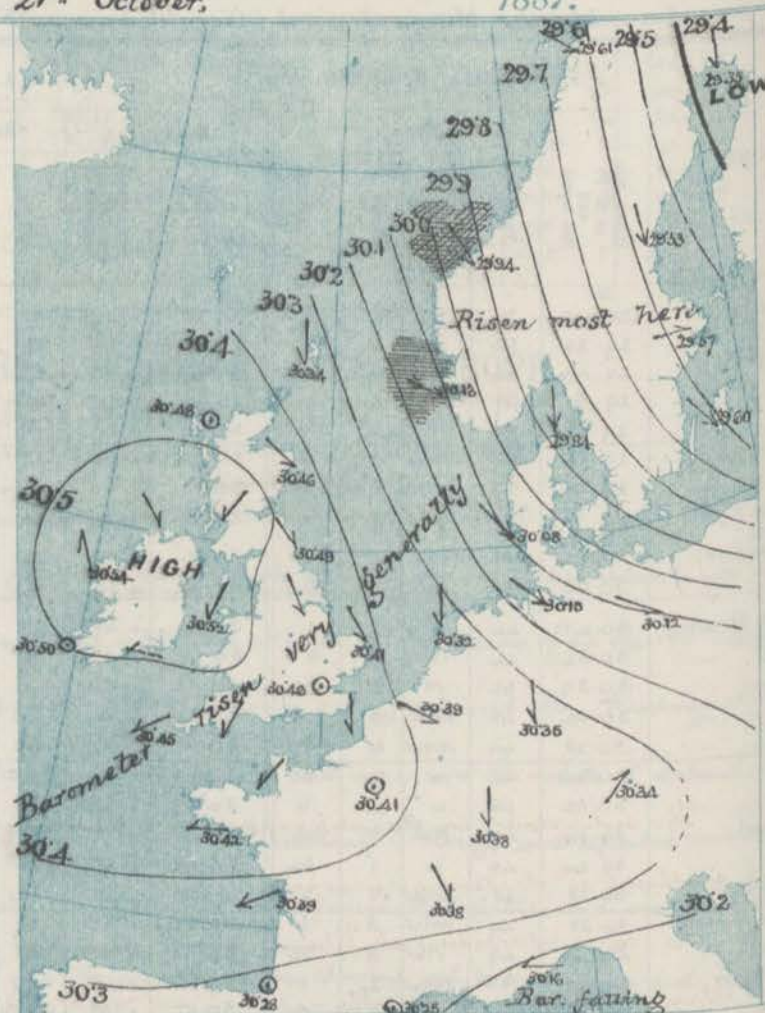
■ = Rough. ■ = High.

## MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of October

During the 10 Years 1871—1880.

| STATIONS.     | MEAN READINGS. |
|---------------|----------------|
|               | in.            |
| Sumburgh Head | 29.685         |
| Stornoway     | 29.707         |
| Wick          | 29.715         |
| Nairn         | 29.738         |
| Aberdeen      | 29.748         |
| Leith         | 29.780         |
| Shields       | 29.821         |
| York          | 29.860         |
| Ardrossan     | 29.749         |
| Donaghadee    | 29.805         |
| Holyhead      | 29.830         |
| Liverpool     | 29.848         |
| Valencia      | 29.842         |
| Rocha's Point | 29.843         |
| Pembroke      | 29.847         |
| Scilly        | 29.877         |
| Hurst Castle  | 29.894         |
| Dover         | 29.907         |
| LONDON        | 29.902         |
| Oxford        | 29.891         |
| Cambridge     | 29.894         |
| Yarmouth      | 29.889         |



## 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<br>(Inches) |
|---------------|---------------|---------------|-------------------|------|----------------------|
|               | Daily<br>Max. | Daily<br>Min. | At 8 a.m.<br>Dry. | Wet. |                      |
| Sumburgh Head | 49.5          | 41.6          | 45.9              | 44.4 | 4.33                 |
| Stornoway     | 50.2          | 38.8          | 45.1              | 43.9 | 4.94                 |
| Wick          | 51.8          | 40.0          | 46.0              | 44.3 | 2.94                 |
| Nairn         | 51.4          | 40.7          | 44.6              | 42.5 | 2.38                 |
| Aberdeen      | 52.1          | 41.3          | 45.5              | 43.5 | 2.88                 |
| Leith         | 55.3          | 41.9          | 46.7              | 45.1 | 1.94                 |
| Shields       | 53.2          | 43.1          | 47.3              | 45.5 | 2.46                 |
| York          | 55.2          | 40.9          | 46.0              | 44.7 | 2.64                 |
| Ardrossan     | 53.7          | 43.2          | 47.7              | 45.4 | 4.31                 |
| Donaghadee    | 53.2          | 43.2          | 47.8              | 46.8 | 3.35                 |
| Holyhead      | 54.9          | 47.5          | 50.4              | 48.6 | 4.53                 |
| Liverpool     | 54.0          | 44.9          | 48.0              | 46.2 | 3.62                 |
| Valencia      | 56.7          | 46.5          | 51.3              | 49.1 | 6.09                 |
| Rocha's Point | 55.6          | 46.4          | 50.4              | 48.6 | 4.17                 |
| Pembroke      | 55.1          | 48.4          | 51.5              | 49.4 | 4.18                 |
| Scilly        | 56.8          | 50.7          | 53.9              | 52.0 | 3.84                 |
| Hurst Castle  | 57.7          | 46.8          | 51.5              | 50.5 | 3.24                 |
| Dover         | 56.2          | 47.8          | 51.5              | 49.4 | 3.28                 |
| LONDON        | 57.1          | 43.5          | 48.4              | 46.9 | 2.74                 |
| Oxford        | 55.7          | 42.9          | 47.0              | 45.8 | 2.72                 |
| Cambridge     | 57.0          | 41.6          | 46.6              | 45.7 | 2.36                 |
| Yarmouth      | 54.9          | 45.1          | 49.5              | 48.2 | 2.97                 |

NOTE — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 10 years 1866—85





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.5 in: and upwards, in an anticyclone lying over Ireland, Wales, and the greater part of Scotland.  
Lowest, 29.4 in: and less, over the Gulf of Bothnia; relatively low, 30 in: and less, over Spain and the W. part of the Mediterranean.  
Gradients moderately sharp over Scandinavia and Denmark, slight elsewhere.

## TEMPERATURE

Highest, 53° at Scilly and Jersey, 52° at Dublin, 50° at Holyhead, and 48° at several of our western and south-western stations.  
Lowest, 30° at Haparanda, 32° at Loughborough, 33° at Larne, 35° at Oxford and in London, and 36° at Nisk.  
Frost occurred last night over the central parts of England and Ireland; in London the thermometer on the grass fell to 25°.

## WIND

Strong NW<sup>2</sup> over Scandinavia and Denmark; moderate from the same quarter on the east coast of Great Britain.  
Light N<sup>2</sup> over the extreme south of England.  
Moderate E<sup>2</sup> over the west coast of our Islands and France.

## WEATHER

(Dull in the extreme west and north of our Islands, and also in Germany, with rain at Munich.  
Fine in most other localities, but foggy in the south-east of England.  
[Rain fell yesterday in the north of Scotland. Lightning was seen at Hurst Castle at night.]

## SEA

High at Christiansund, rather rough at Skudesnæs, and moderate off the north of Scotland, but slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone in the west appears to be advancing in a north-easterly direction, and the barometric rise in the extreme southwest is slackening somewhat.

The cirrus observations at Valencia seem to show that a low pressure system is lying some distance to the south-westward of our Islands. This may possibly approach our coasts, and occasion freshening E<sup>2</sup> winds in the west and southwest.

## FORECASTS

for the 24 hours ending at NOON on 22<sup>nd</sup> OCTOBER. 1887.

### DISTRICTS.

### FORECASTS.

|   |                  |   |
|---|------------------|---|
| 0 | SCOTLAND NORTH   | NW <sup>2</sup> to W <sup>2</sup> winds, light or moderate; fair generally.     |
| 1 | SCOTLAND EAST    | ----- D° ----- D° ----- D° -----  |
| 2 | ENGLAND N.E.     | ----- D° ----- D° ----- D° -----  |
| 3 | ENGLAND EAST     | Same as N° 5  |
| 4 | MIDLAND COUNTIES | Same as N° 5  |
| 5 | ENGLAND SOUTH    | N <sup>2</sup> to NE <sup>2</sup> winds, light; fine generally, frost at night. |

### DISTRICTS.

### FORECASTS.

|    |               |   |
|----|---------------|---|
| 6  | SCOTLAND WEST | NE <sup>2</sup> winds, light; fine generally.   |
| 7  | ENGLAND N.W.  | ----- D° ----- D° ----- D° -----  |
| 8  | ENGLAND S.W.  | NE <sup>2</sup> to E <sup>2</sup> winds, moderate or fresh; fair generally, but cloudy. |
| 9  | IRELAND NORTH | E <sup>2</sup> winds, freshening; cloudy, rain locally.                                 |
| 10 | IRELAND SOUTH | ----- D° ----- D° ----- D° -----  |

### 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.  | Dry. | Wet. | Wind.       | Wea. | Sea. |               | Bar.  | Dry. | Wet. | Wind.       | Wea. | Sea. |
|-------------------|-------|------|------|-------------|------|------|---------------|-------|------|------|-------------|------|------|
| Skudeaanæs ...    | 29.86 | 44   | 39   | W 1/2 W 8   | c    | 5    | Holyhead ...  | 30.42 | 53   | 48   | N 1/2 W 2   | bv   | 2    |
| Sumburgh Head ... | 30.06 | 40   | 36   | W 5         | c    | 5    | Valencia ...  | 30.43 | 58   | 54   | W 3/4 W 2   | om   | 2    |
| Stornoway ...     | 30.28 | 42   | 45   | NW 1/2      | bca  | 3    | Scilly ...    | 30.43 | 56   | 51   | ESE 1       | b    | 2    |
| Aberdeen ...      | 30.22 | 49   | 46   | W 1/2       | bca  | 1    | Dungeness ... | 30.44 | 56   | 50   | N 1/2 W 1/2 | c    | 3    |
| Shields ...       | 30.28 | 55   | 46   | W 3         | bv   | 2    | London ...    | 30.37 | 55   | 40   | W 1/2 W 2   | o    | 3    |
| Ardrossan ...     | 30.34 | 52   | 51   | W 1/2 W 1/2 | b    | 3    | Yarmouth ...  | 30.30 | 52   | 47   | NW 3        | b    | 1    |
| Malin Head ...    | 30.40 | 51   | 46   | NW 3        | o    | 3    | Jersey ...    | 30.42 | 55   | 50   | N 1/2 W 1   | c    | 2    |
| Mullaghmore ...   | 30.44 | 51   | 46   | NW 1/2      | om   | 2    | Rochefort ... | 30.36 | 59   | 52   | ESE 5       | b    | 2    |
| Belmullet ...     | 30.46 | 54   | 48   | N 3         | c    | *    |               |       |      |      |             |      |      |

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

Yesterday morning's reports showed a further reduction in the intensity and some modification in the form and position of the anticyclone recently noticed over the British Isles and France, while simultaneously there had been a considerable increase in the cyclonic tendency over Northern Europe. The result was that at 8 a.m. pressure varied from 30.4 ins: and more over Ireland, the southwest of England, and all the northern departments of France to rather below 29 ins: over Lapland, on the one hand, and to about 30.1 ins: over the extreme south of Spain on the other. W<sup>2</sup> (SW to W. and NW) winds were blowing over the northern countries; they were very strong in places, and were accompanied by mild changeable, showery weather over Scandinavia, Scotland, and the north of Ireland, but by fair weather in most other places, while over the southern countries the wind was very light (W<sup>2</sup> over Austria, and E<sup>2</sup> over the south of France), the weather fine and bright, and temperature low for the time of year. Temperature ranged from 60° and more both over the eastern and extreme western parts of the Mediterranean, and from upwards of 50° over Ireland and Wales to a little below the freezing point over the extreme north of Russia, but to very little above the freezing point over Central France—where frost on the ground must have been very general. The highest individual values were 62° at Malta, Tunis, San Fernando, and Palma, 59° at Cagliari, 58° at Barcelona, 54° at Valencia and 53° at Pembroke; the lowest 30° at Gap (France), 31° at Archangel, 32° at Le Mans, Charleville, and several other French stations and 33° at Paris.

Later in the day the NW<sup>2</sup> wind lulled over the British Isles, temperature fell, and an anticyclone again appeared over the United Kingdom.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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



# DAILY WEATHER REPORT.

for Saturday 22<sup>nd</sup> October

1887.

Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

| STATIONS.                        | + YESTERDAY EVENING.                        |                    |       |                      |          |  | 8 A.M. TO DAY.                            |   |             |      |   |       |                      |     |   |  | PAST 24 HOURS. |      |                           |
|----------------------------------|---|--------------------|-------|----------------------|----------|--|---|---|-------------|------|---|-------|----------------------|-----|---|--|----------------|------|---------------------------|
|                                  | Barometer<br>at 32° F.<br>and<br>Sea Level. | Temp. in<br>Shade. | WIND. |                      | Weather. |  | BAROMETER.                                |   | SHADE TEMP. |      |   | WIND. |                      |     |   |  | SHADE TEMP.    |      | Amount<br>of<br>Rainfall. |
|                                  |   |                    | Dir.  | Force.<br>(0 to 12.) |          |  | Reading<br>at 32° F.<br>and<br>Sea Level. | Difference<br>from 8 a.m.<br>yesterday. | Dry.        | Wet. | Difference<br>from 8 a.m.<br>yesterday. | Dir.  | Force.<br>(0 to 12.) |     |   |  | Max.           | Min. |                           |
| <b>SCANDINAVIA.</b>              |   |                    |       |                      |          |  |   |   |             |      |   |       |                      |     |   |  |                |      |                           |
| Haparanda ..                     | 29.84                                       | 19                 | N     | 2                    | b        |  | 29.88                                     | + .04                                   | 28          | 26   | - 2                                     | W     | 2                    | c   | * |  | 30             | 18   | -                         |
| Hernösand ..                     | 29.86                                       | 32                 | W     | 0                    | b        |  | 30.12                                     | + .26                                   | 32          | 30   | - 2                                     | NW    | 2                    | bc  | * |  | 41             | 30   | -                         |
| Stockholm ..                     | 30.01                                       | 34                 | N     | 4                    | c        |  | 30.23                                     | + .22                                   | 30          | 29   | - 1                                     | WNW   | 2                    | b   | * |  | 45             | ?    | -                         |
| Wisby ..                         | 29.92                                       | 43                 | N     | 6                    | o        |  | 30.10                                     | + .18                                   | 40          | 36   | - 4                                     | NNE   | 6                    | b   | * |  | 46             | 37   | -                         |
| Bodo ..                          | 29.84                                       | 35                 | W     | 2                    | b        |  | 29.82                                     | + .02                                   | 37          | 33   | - 4                                     | SW    | 5                    | o   | 3 |  | 39             | 34   | 0.04                      |
| Christiansund ..                 | 30.16                                       | 39                 | NW    | 6                    | o        |  | 30.00                                     | + .16                                   | 40          | 36   | - 4                                     | SW    | 5                    | o   | 5 |  | ?              | 36   | 0.16                      |
| Skudesnaes ..                    | 30.31                                       | 41                 | WNW   | 7                    | r        |  | 30.32                                     | + .01                                   | 39          | 37   | - 2                                     | Z     | 0                    | o   | 4 |  | ?              | ?    | -                         |
| Christiania Fjord<br>(Farder) .. | 30.12                                       | 45                 | NW    | 4                    | b        |  | 30.25                                     | + .13                                   | 42          | 36   | - 6                                     | W     | 3                    | b   | 1 |  | 50             | 41   | -                         |
| Skagen (The Scaw)                | 30.13                                       | 47                 | NE    | 1                    | b        |  | 30.28                                     | + .15                                   | 44          | 40   | - 4                                     | WNW   | 2                    | bc  | 1 |  | 48             | 39   | -                         |
| Faro ..                          | 30.29                                       | 42                 | NW    | 4                    | b        |  | 30.36                                     | + .07                                   | 43          | 41   | + 2                                     | NW    | 3                    | c   | * |  | 48             | 39   | 0.08                      |
| <b>BRITISH ISLANDS.</b>          |   |                    |       |                      |          |  |   |   |             |      |   |       |                      |     |   |  |                |      |                           |
| Sumburgh Head                    | 30.89                                       | 40                 | WNW   | 1                    | c        |  | 30.06                                     | - .83                                   | 47          | 45   | + 2                                     | SW    | 5                    | o   | 5 |  | 47             | 34   | 0.01                      |
| Stornoway ..                     | 30.43                                       | 45                 | Z     | 0                    | om       |  | 30.18                                     | - .25                                   | 50          | 49   | + 1                                     | S     | 4                    | o   | 3 |  | 50             | 36   | 0.02                      |
| Wick ..                          | 30.40                                       | 43                 | NW    | 5                    | bc       |  | 30.17                                     | - .23                                   | 46          | 44   | + 2                                     | W     | 4                    | c   | 1 |  | 47             | 38   | -                         |
| Nairn ..                         | 30.48                                       | 40                 | Z     | 0                    | c        |  | 30.28                                     | - .22                                   | 46          | 44   | + 2                                     | Z     | 0                    | bc  | 1 |  | 48             | 34   | -                         |
| Aberdeen ..                      | 30.50                                       | 36                 | Z     | 0                    | b        |  | 30.34                                     | - .12                                   | 36          | 34   | - 2                                     | WNW   | 3                    | b   | 1 |  | 46             | 30   | -                         |
| Leith ..                         | 30.53                                       | 39                 | SE    | 1                    | b        |  | 30.41                                     | - .10                                   | 47          | 42   | - 5                                     | W     | 3                    | c   | * |  | 51             | 30   | -                         |
| Shields ..                       | 30.55                                       | 42                 | WNW   | 2                    | bm       |  | 30.48                                     | - .07                                   | 47          | 35   | - 12                                    | SW    | 2                    | m   | 2 |  | 46             | 31   | -                         |
| Spurn Head ..                    | 30.53                                       | 45                 | WNW   | 4                    | bc       |  | 30.55                                     | + .02                                   | 41          | 39   | - 2                                     | WNW   | 3                    | b   | 4 |  | 48             | 38   | 0.01                      |
| York ..                          | 30.54                                       | 43                 | N     | 1                    | b        |  | 30.56                                     | + .02                                   | 28          | 28   | - 0                                     | Z     | 0                    | f   | * |  | 48             | 27   | -                         |
| Loughborough                     | 30.55                                       | 40                 | Z     | 0                    | b        |  | 30.60                                     | + .05                                   | 24          | 24   | - 0                                     | Z     | 0                    | f   | * |  | 54             | 23   | -                         |
| <b>IRELAND.</b>                  |   |                    |       |                      |          |  |   |   |             |      |   |       |                      |     |   |  |                |      |                           |
| Ardara ..                        | 30.51                                       | 44                 | Z     | 0                    | b        |  | 30.42                                     | - .09                                   | 45          | 45   | + 0                                     | SW    | 3                    | c   | 2 |  | 49             | 38   | -                         |
| Malin Head ..                    | 30.51                                       | 45                 | SE    | 2                    | om       |  | 30.38                                     | - .13                                   | 48          | 46   | - 2                                     | SW    | 3                    | om  | 3 |  | 49             | 41   | -                         |
| Mullaghmore ..                   | 30.51                                       | 48                 | SE    | 2                    | c        |  | 30.43                                     | - .08                                   | 49          | 45   | - 4                                     | S     | 3                    | c   | 1 |  | 52             | 41   | -                         |
| Belmullet ..                     | 30.50                                       | 48                 | SE    | 2                    | bc       |  | 30.43                                     | - .07                                   | 50          | 48   | + 2                                     | S     | 4                    | o   | * |  | 52             | 44   | -                         |
| Donaghadee ..                    | 30.54                                       | 42                 | WNW   | 2                    | c        |  | 30.48                                     | - .06                                   | 44          | 43   | - 1                                     | W     | 4                    | c   | 2 |  | 51             | 35   | -                         |
| <b>BRITISH ISLANDS.</b>          |   |                    |       |                      |          |  |   |   |             |      |   |       |                      |     |   |  |                |      |                           |
| Barrow-in-Furness                | 30.52                                       | 45                 | NE    | 1                    | c        |  | 30.50                                     | + .02                                   | 42          | 41   | + 1                                     | S     | 4                    | om  | * |  | 49             | 37   | -                         |
| Liverpool (Bidston)              | 30.54                                       | 45                 | N     | 1                    | b        |  | 30.54                                     | + .00                                   | 38          | 36   | - 2                                     | SE    | 2                    | bcf | 2 |  | 49             | 36   | -                         |
| Holyhead ..                      | 30.53                                       | 46                 | ENE   | 1                    | b        |  | 30.51                                     | - .02                                   | 48          | 46   | - 2                                     | S     | 4                    | cw  | 2 |  | 54             | 40   | -                         |
| Parsonstown ..                   | 30.53                                       | 43                 | Z     | 0                    | b        |  | 30.50                                     | - .03                                   | 44          | 41   | + 3                                     | Z     | 0                    | o   | * |  | 52             | 32   | -                         |
| Valencia ..                      | 30.48                                       | 52                 | SE    | 2                    | om       |  | 30.45                                     | - .03                                   | 51          | 48   | + 3                                     | SE    | 2                    | om  | 2 |  | 56             | 47   | -                         |
| <b>FRANCE &amp; NETHERLANDS.</b> |   |                    |       |                      |          |  |   |   |             |      |   |       |                      |     |   |  |                |      |                           |
| Roche's Point...                 | 30.51                                       | 49                 | SE    | 3                    | bc       |  | 30.47                                     | - .04                                   | 53          | 50   | + 3                                     | SW    | 3                    | o   | 3 |  | 54             | 46   | -                         |
| Pembroke ..                      | 30.51                                       | 48                 | NE    | 2                    | b        |  | 30.51                                     | + .00                                   | 50          | 50   | + 0                                     | SW    | 3                    | cw  | 2 |  | 52             | 44   | -                         |
| Scilly ..                        | 30.45                                       | 53                 | E     | 4                    | o        |  | 30.46                                     | + .01                                   | 53          | 51   | - 2                                     | SE    | 4                    | o   | 4 |  | 56             | 50   | -                         |
| Prawle Point ..                  | 30.51                                       | 46                 | ENE   | 2                    | b        |  | 30.54                                     | + .03                                   | 51          | 48   | + 3                                     | SE    | 3                    | o   | 3 |  | 52             | 42   | -                         |
| Jersey ..                        | 30.47                                       | 51                 | NE    | 1                    | b        |  | 30.56                                     | + .09                                   | 47          | 45   | - 2                                     | E     | 2                    | bcw | 2 |  | 65             | 39   | -                         |
| <b>GERMANY.</b>                  |   |                    |       |                      |          |  |   |   |             |      |   |       |                      |     |   |  |                |      |                           |
| Hurst Castle ..                  | 30.50                                       | 49                 | ENE   | 2                    | bc       |  | 30.58                                     | + .08                                   | 40          | 39   | - 1                                     | NE    | 3                    | bc  | 1 |  | 54             | 36   | -                         |
| Dungeness ..                     | 30.47                                       | 49                 | NE    | 4                    | bc       |  | 30.56                                     | + .09                                   | 36          | 35   | - 1                                     | WNW   | 2                    | f   | 1 |  | 52             | 31   | -                         |
| London ..                        | 30.52                                       | 46                 | N     | 2                    | bm       |  | 30.60                                     | + .08                                   | 28          | 28   | - 0                                     | Z     | 0                    | f   | * |  | 51             | 28   | -                         |
| Oxford ..                        | 30.57                                       | 40                 | ENE   | 2                    | b        |  | 30.62                                     | + .05                                   | 24          | 26   | + 2                                     | Z     | 0                    | f   | * |  | 53             | 27   | -                         |
| Cambridge ..                     | 30.53                                       | 43                 | N     | 1                    | b        |  | 30.60                                     | + .07                                   | 24          | 28   | + 4                                     | SW    | 1                    | b   | * |  | 52             | 25   | -                         |
| <b>FRANCE &amp; NETHERLANDS.</b> |   |                    |       |                      |          |  |   |   |             |      |   |       |                      |     |   |  |                |      |                           |
| Yarmouth ..                      | 30.50                                       | 46                 | N     | 2                    | r        |  | 30.56                                     | + .06                                   | 43          | 41   | - 2                                     | WNW   | 1                    | bcf | 3 |  | 48             | 39   | 0.01                      |
| Curhaven ..                      | 30.26                                       | 44                 | NW    | 5                    | o        |  | 30.41                                     | + .15                                   | 46          | 44   | - 2                                     | N     | 3                    | b   | * |  | 46             | 43   | 0.04                      |
| Berlin ..                        | 30.22                                       | 39                 | WNW   | 4                    | b        |  | 30.43                                     | + .21                                   | 36          | 35   | - 1                                     | WNW   | 3                    | c   | * |  | 48             | 34   | -                         |
| Wiesbaden ..                     | *   | *                  | *     | *                    | *        |  | 30.57                                     | + .22                                   | 37          | 36   | - 1                                     | N     | 1                    | b   | * |  | 52             | 34   | -                         |
| Munich ..                        | 30.39                                       | 40                 | W     | 3                    | o        |  | 30.53                                     | + .14                                   | 37          | 36   | - 1                                     | NE    | 3                    | o   | * |  | 48             | 36   | -                         |
| <b>FRANCE &amp; NETHERLANDS.</b> |   |                    |       |                      |          |  |   |   |             |      |   |       |                      |     |   |  |                |      |                           |
| The Helder ..                    | *   | *                  | *     | *                    | *        |  | 30.58                                     | + .19                                   | 41          | 40   | - 1                                     | N     | 1                    | b   | * |  | 52             | 40   | 0.04                      |
| Brussels ..                      | 30.48                                       | 48                 | NE    | 7                    | c        |  | 30.57                                     | + .09                                   | 45          | 43   | - 2                                     | SE    | 1                    | c   | 1 |  | 54             | 43   | -                         |
| Cape Gris Nez...                 | 30.46                                       | 43                 | N     | 1                    | c        |  | 30.56                                     | + .10                                   | 35          | 35   | - 0                                     | NE    | 3                    | m   | * |  | 53             | 35   | -                         |
| Brest ..                         | 30.47                                       | 50                 | NE    | 4                    | b        |  | 30.49                                     | + .02                                   | 46          | 43   | + 3                                     | E     | 5                    | o   | 3 |  | 57             | 37   | -                         |
| <b>FRANCE &amp; NETHERLANDS.</b> |   |                    |       |                      |          |  |   |   |             |      |   |       |                      |     |   |  |                |      |                           |
| Lorient ..                       | 30.41                                       | 56                 | ENE   | 3                    | b        |  | 30.49                                     | + .08                                   | 43          | 41   | - 2                                     | E     | 4                    | b   | 2 |  | 55             | 41   | -                         |
| Rochefort ..                     | 30.37                                       | 53                 | ENE   | 7                    | b        |  | 30.42                                     | + .05                                   | 42          | 40   | + 2                                     | ENE   | 5                    | b   | 2 |  | 61             | 37   | -                         |
| Belfort ..                       | 30.37                                       | 43                 | N     | 5                    | o        |  | 30.46                                     | + .09                                   | 43          | 42   | + 1                                     | NE    | 1                    | b   | * |  | 50             | 30   | -                         |
| Lyons ..                         | 30.37                                       | 43                 | N     | 5                    | o        |  | 30.46                                     | + .09                                   | 43          | 42   | + 1                                     | NE    | 1                    | b   | * |  | 50             | 30   | -                         |
| <b>FRANCE &amp; NETHERLANDS.</b> |   |                    |       |                      |          |  |   |   |             |      |   |       |                      |     |   |  |                |      |                           |
| Nice ..                          | 30.56                                       | 53                 | E     | 1                    | o        |  | 30.25                                     | + .09                                   | 50          | 49   | + 1                                     | ENE   | 3                    | bc  | 2 |  | 61             | 46   | -                         |
| Perpignan ..                     | 30.21                                       | 51                 | Z     | 0                    | b        |  | 30.32                                     | + .11                                   | 38          | 38   | + 0                                     | Z     | 0                    | m   | * |  | 68             | 36   | -                         |
| Biarritz ..                      | 30.26                                       | 56                 | Z     | 0                    | b        |  | 30.28                                     | - .02                                   | 46          | 44   | - 2                                     | SW    | 3                    | m   | 1 |  | 63             | 41   | -                         |
| <b>SPAIN.</b>                    |   |                    |       |                      |          |  |   |   |             |      |   |       |                      |     |   |  |                |      |                           |
| Corunna ..                       | *   | *                  | *     | *                    | *        |  | 30.22                                     | - .02                                   | 49          | 47   | - 2                                     | E     | 1                    | f   | 3 |  | 70             | 43   | -                         |
| Lisbon ..                        | 30.12                                       | 64                 | NE    | 5                    | b        |  | 30.18                                     | + .06                                   | 54          | 48   | + 6                                     | WNW   | 7                    | b   | 2 |  | 70             | 52   | -                         |

For Explanation of Columns, see p. 4.

† Received too late for insertion in charts



# WEATHER CHARTS

for 8 a.m. on

Saturday, 22<sup>nd</sup> October.

1887.

## BAROMETER, WIND & 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.

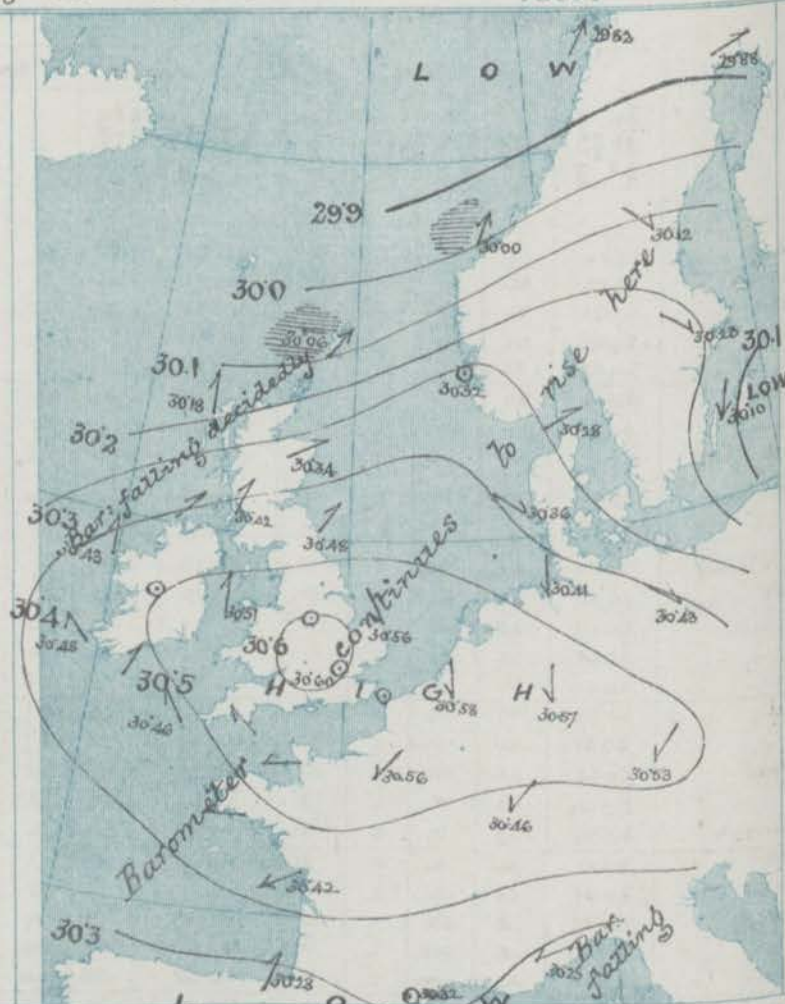
**Sea Disturbance**—where considerable is shown thus

— Rough. — High.

## MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of October.  
 During the 10 Years 1871—1880.

| STATIONS.     | MEAN READINGS. |
|---------------|----------------|
|               | in.            |
| Sumburgh Head | 29.685         |
| Stornoway     | 29.707         |
| Wick          | 29.718         |
| Nairn         | 29.738         |
| Aberdeen      | 29.748         |
| Leith         | 29.780         |
| Shields       | 29.821         |
| York          | 29.860         |
| Ardrossan     | 29.749         |
| Donaghadee    | 29.805         |
| Holyhead      | 29.830         |
| Liverpool     | 29.848         |
| Valencia      | 29.842         |
| Roche's Point | 29.843         |
| Pembroke      | 29.847         |
| Scilly        | 29.877         |
| Hurst Castle  | 29.894         |
| Dover         | 29.907         |
| LONDON        | 29.902         |
| Oxford        | 29.891         |
| Cambridge     | 29.894         |
| Yarmouth      | 29.889         |



## 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<br>(Inches) |
|---------------|--------------|---------------|-----------|------|----------------------|
|               | Daily<br>Max | Daily<br>Min. | At 8 a.m. |      |                      |
|               |              |               | Dry.      | Wet. |                      |
| Sumburgh Head | 49.5         | 41.6          | 45.9      | 44.4 | 4.33                 |
| Stornoway     | 50.2         | 38.8          | 45.1      | 43.9 | 4.94                 |
| Wick          | 51.8         | 40.0          | 46.0      | 44.3 | 2.94                 |
| Nairn         | 51.4         | 40.7          | 44.6      | 42.5 | 2.88                 |
| Aberdeen      | 52.1         | 41.3          | 45.5      | 43.5 | 2.88                 |
| Leith         | 55.3         | 41.9          | 46.7      | 45.1 | 1.94                 |
| Shields       | 53.2         | 43.1          | 47.3      | 45.5 | 2.46                 |
| York          | 55.2         | 40.9          | 46.0      | 44.7 | 2.64                 |
| Ardrossan     | 53.7         | 43.2          | 47.7      | 45.4 | 4.31                 |
| Donaghadee    | 53.2         | 43.2          | 47.8      | 46.8 | 3.35                 |
| Holyhead      | 54.9         | 47.5          | 50.4      | 48.0 | 4.53                 |
| Liverpool     | 54.0         | 44.9          | 48.0      | 46.2 | 3.62                 |
| Valencia      | 56.7         | 46.5          | 51.3      | 49.1 | 6.09                 |
| Roche's Point | 55.6         | 46.4          | 50.4      | 48.6 | 4.17                 |
| Pembroke      | 55.1         | 48.4          | 51.5      | 49.4 | 4.13                 |
| Scilly        | 56.8         | 50.7          | 53.9      | 52.0 | 3.84                 |
| Hurst Castle  | 57.7         | 46.8          | 51.5      | 50.5 | 3.24                 |
| Dover         | 56.2         | 47.8          | 51.5      | 49.4 | 3.28                 |
| LONDON        | 57.1         | 43.5          | 48.4      | 46.9 | 2.74                 |
| Oxford        | 55.7         | 42.9          | 47.0      | 45.8 | 2.72                 |
| Cambridge     | 57.0         | 41.6          | 48.6      | 45.7 | 2.36                 |
| Yarmouth      | 54.9         | 45.1          | 49.5      | 48.2 | 2.97                 |

NOTE—The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 10 years 1868—85.





## GENERAL SITUATION AT 8 A.M.

### PRESSURE

Highest, 30.6 ins: and upwards, over Central England, 30.5 ins: and upwards over the whole of England, the Highlands, the north of France and South Germany.  
 Lowest, 29.9 ins and less, in the north of Scandinavia; 30.2 ins: and less in the neighbourhood of Lisbon.  
 Gradients becoming rather steep in north. Barometer falling briskly in north and slowly in south.

### TEMPERATURE

Highest, 54° at Dublin, 53° at Rock Point and Scilly, 51° at Valencia and Puerto Rico, and 50° at Stomoway, Belmullet, Limerick and Here.  
 Lowest, 24° at Loughborough, 27° at Bedford, 28° at Haparanda, York, and in London, 29° at Cambridge and 32° at Hemsland.  
 Sharp frost occurred over Great Britain last night, the lowest readings being 11° in London (on the grass) and 25° at Cambridge (in the snow).

### WIND

Moderate S.W. on our western coasts, and S.W. in the extreme north.  
 Calm over Central England; light N.E. on our southeast coasts.  
 Light N.W. in Sweden and Denmark; light or moderate from N.E. or E. in France.

### WEATHER

Dull in the extreme west and north of our Islands, as well as in the coast of Norway.  
 Fine in most other places, but much fog reported over England.  
 [Slight rain has fallen in the extreme north of our Islands]

### SEA

Rather rough at Christiansund and Lumbly H., but moderate to smooth elsewhere.

### PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A large depression is approaching our extreme northern coasts from the westward, and a considerable increase of wind is probable in Scotland, with squally unsettled weather. No immediate change is anticipated in the south, but the wind is likely to shift gradually to the S.W. with a decided rise in temperature.

## FORECASTS

for the 24 hours ending at NOON on 23<sup>rd</sup> OCTOBER 1887.

### DISTRICTS.

### FORECASTS.

|   |                  |  |
|---|------------------|--|
| 0 | SCOTLAND NORTH   | SW <sup>2</sup> winds, increasing in force; dull, squally, some rain.                            |
| 1 | SCOTLAND EAST    | SW <sup>2</sup> and W <sup>2</sup> winds, freshening; fair generally, but local showers.         |
| 2 | ENGLAND N.E.     | ----- D° ----- D° ----- D° -----   |
| 3 | ENGLAND EAST     | Same as No 5   |
| 4 | MIDLAND COUNTIES | Same as No 5   |
| 5 | ENGLAND SOUTH    | Variable breezes, finally SW <sup>2</sup> ; fine generally, but frosty at night with local fogs. |

### DISTRICTS.

### FORECASTS.

|          |               |  |
|----------|---------------|--|
| 6        | SCOTLAND WEST | Same as No 1   |
| 7        | ENGLAND N.W.  | SW <sup>2</sup> to W <sup>2</sup> winds, moderate or fresh; fair generally.  |
| 8        | ENGLAND S.W.  | SE <sup>2</sup> and S <sup>2</sup> winds, moderate or fresh; fair generally. |
| 9        | IRELAND NORTH | Same as No 0   |
| 10       | IRELAND SOUTH | S <sup>2</sup> winds, freshening; dull, rain locally.                        |
| WARNINGS |               | NONE ISSUED.   |

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



# YESTERDAY'S 2 P.M. REPORTS.

|                   | Bar.  | Dry. | Wet. | Wind. | Wes. | Ses. |               | Bar.  | Dry. | Wet. | Wind. | Wes. | Ses. |
|-------------------|-------|------|------|-------|------|------|---------------|-------|------|------|-------|------|------|
| Skudesnes ...     | 30.20 | 44   | 41   | WNW 7 | ch q | 5    | Holyhead ...  | 30.53 | 50   | 45   | N 3   | 6    | 2    |
| Sumburgh Head ... | 30.38 | 40   | 36   | WNW 2 | c    | 4    | Valencia ...  | 30.48 | 56   | 52   | ESE 3 | cm   | 4    |
| Stornoway ...     | 30.47 | 47   | 44   | Z 0   | c    | 3    | Scilly ...    | 30.45 | 54   | 51   | ESE 4 | 0    | 3    |
| Aberdeen ...      | 30.60 | 45   | 41   | WNW 3 | 0    | 1    | Dungeness ... | 30.44 | 52   | 46   | NE 4  | c    | 3    |
| Shields ...       | 30.52 | 45   | 40   | WNW 3 | c    | 3    | London ...    | 30.48 | 51   | 45   | NE 1  | c    | *    |
| Ardrossan ...     | 30.52 | 48   | 46   | SSW 2 | 6    | 1    | Yarmouth ...  | 30.45 | 48   | 44   | N 3   | ef   | 4    |
| Malin Head ...    | 30.53 | 49   | 45   | ESE 1 | 0    | 2    | Jersey ...    | 30.45 | 55   | 48   | NE 2  | 6    | 2    |
| Mullaghmore ...   | 30.53 | 50   | 44   | SE 2  | c    | 2    | Rochefort ... | 30.37 | 60   | 54   | ESE 7 | 6    | 2    |
| Belmullet ...     | 30.51 | 51   | 45   | SEW 2 | 6c   | *    |               |       |      |      |       |      |      |

## GENERAL REMARKS ON THE WEATHER OVER EUROPE

### DURING THE PAST 24 HOURS.

The reports for yesterday morning showed that the anticyclonic conditions over the British Isles and Northwestern Europe had been restored, while the cyclonic system observed in the extreme north on Thursday was moving E<sup>ads</sup> and had reached Finland and the Kola Peninsula. Gradients for N<sup>7</sup> winds consequently prevailed over Scandinavia and the North Sea, while those over France and Southern Europe were favourable for E<sup>7</sup>, and those over Germany for W<sup>7</sup> winds. The weather was improving in the west, but was rough and showery over the Baltic and Holland. Temperature was giving way again over the United Kingdom but rising in Russia, and varied from 60° and more over the eastern and southeastern parts of the Mediterranean as well as on the Spanish coast to rather below the freezing point over Lapland, and to very little above that value over Central France and Spain. The temperatures of 50° and more over the British Isles had disappeared. The highest individual values were 72° at Nice and 71° at Algiers, 70° at Malta, 61° at San Fernando, 60° at Palma, 58° at Sangüinaria and 57° at Constantinople, the lowest were 29° at Uleaborg, 30° at Haparanda, 35° at Lyons and in London, and 37° at Lumburgh H<sup>d</sup>, Helsingfors and Stockholm.

Later in the day the anticyclone increased in height, and cold foggy weather spread over England. In Scotland and Ireland, however, pressure began to give way and the wind backed.

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

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

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

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

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



# DAILY WEATHER REPORT.

for Sunday 23<sup>rd</sup> OCTOBER

1887.

Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

|                             |                                    | + YESTERDAY EVENING. |       |                   |          |                                  | 8 A.M. TO DAY.                    |             |      |                                   |       |                   |          |               |             |      | PAST 24 HOURS.      |  |  |
|-----------------------------|------------------------------------|----------------------|-------|-------------------|----------|----------------------------------|-----------------------------------|-------------|------|-----------------------------------|-------|-------------------|----------|---------------|-------------|------|---------------------|--|--|
| STATIONS.                   | 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. |  |  |
|                             |                                    |                      | 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 ..                | 29.65                              | 36                   | S     | 6                 | 0        | 29.14                            | -.74                              | 37          | 36   | + 9                               | WSW   | 4                 | bc       | *             | 23          | 23   | Ins.                |  |  |
| Hernösand ...               | 29.73                              | 36                   | S     | 6                 | 0        | 29.38                            | -.74                              | 37          | 34   | + 5                               | Z     | 0                 | c        | *             | 29          | 28   | —                   |  |  |
| Stockholm ...               | 30.06                              | 39                   | S     | 4                 | c        | 29.63                            | -.60                              | 45          | 42   | + 15                              | SSW   | 4                 | o        | *             | 27          | 27   | —                   |  |  |
| Wishby ...                  | 30.23                              | 44                   | SW    | 4                 | 0        | 29.82                            | -.28                              | 45          | 43   | + 5                               | WSW   | 4                 | o        | *             | 30          | 34   | —                   |  |  |
| Bodo ...                    | 29.15                              | 40                   | SE    | 4                 | 0        | 28.89                            | -.93                              | 35          | 33   | - 2                               | SSW   | 6                 | c        | 4             | 32          | 32   | 0.08                |  |  |
| Christiansund...            | 29.60                              | 43                   | SW    | 9                 | t        | 29.38                            | -.62                              | 36          | 34   | - 4                               | WSW   | 9                 | t        | 7             | 46          | 34   | 0.20                |  |  |
| Skudesnaes ...              | 30.00                              | 49                   | WSW   | 7                 | r        | 29.76                            | -.56                              | 44          | 42   | + 5                               | WNW   | 1                 | r        | 4             | 39          | 39   | —                   |  |  |
| Christiania Fjord (Fjorder) | 30.00                              | 47                   | SW    | 8                 | 0        | 29.51                            | -.74                              | 51          | 49   | + 9                               | WSW   | 8                 | c        | 6             | ?           | ?    | —                   |  |  |
| Skagen (The Scaw)           | 30.09                              | 44                   | W     | 5                 | 0        | 29.76                            | -.52                              | 48          | 47   | + 4                               | W     | 5                 | o        | 3             | 48          | 41   | 0.04                |  |  |
| Fanö ...                    | 30.28                              | 48                   | WSW   | 6                 | 0        | 30.02                            | -.34                              | 49          | 47   | + 6                               | WSW   | 6                 | o        | *             | 50          | 43   | —                   |  |  |
| BRITISH ISLANDS.            |                                    |                      |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |               |             |      |                     |  |  |
| Sumburgh Head               | 29.87                              | 50                   | NW    | 4                 | r        | 29.81                            | -.25                              | 40          | 38   | - 7                               | N     | 2                 | o        | 3             | 51          | 35   | 0.17                |  |  |
| Stornoway ...               | 30.05                              | 52                   | SW    | 6                 | rw       | 29.96                            | -.22                              | 43          | 43   | - 7                               | SW    | 2                 | c        | 4             | 54          | 41   | 0.40                |  |  |
| Wick ...                    | 30.03                              | 51                   | W     | 3                 | o        | 29.91                            | -.26                              | 42          | 41   | - 4                               | N     | 1                 | o        | 0             | 53          | 40   | 0.13                |  |  |
| Nairn ...                   | 30.10                              | 51                   | SW    | 2                 | r        | 29.97                            | -.31                              | 44          | 43   | - 2                               | SW    | 1                 | o        | 1             | 53          | 43   | 0.14                |  |  |
| Aberdeen...                 | 30.16                              | 48                   | SW    | 2                 | c        | 29.92                            | -.42                              | 44          | 43   | + 8                               | NNW   | 2                 | r        | 1             | 52          | 35   | 0.07                |  |  |
| Leith ...                   | 30.28                              | 51                   | W     | 4                 | c        | 29.98                            | -.43                              | 50          | 48   | + 3                               | W     | 4                 | o        | *             | 57          | 46   | —                   |  |  |
| Shields ...                 | 30.36                              | 47                   | SSW   | 2                 | bm       | 30.04                            | -.44                              | 50          | 46   | + 13                              | SW    | 3                 | cm       | 2             | 57          | 37   | —                   |  |  |
| Spurn Head ...              | 30.44                              | 44                   | SW    | 8                 | b        | 30.19                            | -.46                              | 47          | 45   | + 6                               | SW    | 4                 | c        | 3             | 48          | 40   | —                   |  |  |
| York ...                    | 30.42                              | 44                   | S     | 2                 | b        | 30.16                            | -.40                              | 48          | 46   | + 20                              | SSW   | 8                 | o        | *             | 51          | 28   | —                   |  |  |
| Loughborough                | 30.48                              | 44                   | SW    | 2                 | o        | 30.26                            | -.34                              | 45          | 42   | + 21                              | WSW   | 3                 | c        | *             | 52          | 34   | —                   |  |  |
| Ardrossan ...               | 30.30                              | 52                   | SSW   | 3                 | o        | 30.04                            | -.38                              | 52          | 50   | + 7                               | WSW   | 5                 | c        | 4             | 54          | 45   | —                   |  |  |
| Malin Head ...              | 30.30                              | 50                   | SW    | 3                 | om       | 30.07                            | -.31                              | 52          | 52   | + 4                               | W     | 3                 | opd      | 2             | 54          | 47   | 0.07                |  |  |
| Mullaghmore ...             | 30.35                              | 48                   | S     | 2                 | c        | 30.16                            | -.27                              | 50          | 49   | + 1                               | SW    | 3                 | om       | 2             | 52          | 47   | —                   |  |  |
| Belmullet ...               | 30.33                              | 51                   | SW    | 3                 | o        | 30.17                            | -.26                              | 53          | 52   | + 3                               | W     | 2                 | c        | *             | 54          | 50   | 0.01                |  |  |
| Donaghadee ...              | 30.37                              | 48                   | WSW   | 3                 | o        | 30.13                            | -.35                              | 48          | 47   | + 4                               | WSW   | 3                 | c        | 1             | 55          | 42   | —                   |  |  |
| Barrow-in-Furness           | 30.39                              | 249                  | SW    | 2                 | c        | 30.16                            | -.34                              | 51          | 49   | + 9                               | SW    | 4                 | c        | *             | 52          | 42   | —                   |  |  |
| Liverpool (Bidston)         | 30.44                              | 48                   | SW    | 2                 | o        | 30.20                            | -.34                              | 48          | 45   | + 10                              | SW    | 3                 | c        | 2             | 52          | 38   | —                   |  |  |
| Holyhead ...                | 30.43                              | 51                   | SW    | 3                 | o        | 30.22                            | -.29                              | 51          | 49   | + 3                               | WSW   | 4                 | om       | 2             | 53          | 48   | —                   |  |  |
| Parsonstown ...             | 30.40                              | 49                   | SE    | 1                 | o        | 30.25                            | -.25                              | 46          | 44   | + 2                               | Z     | 0                 | r        | *             | 50          | 43   | 0.03                |  |  |
| Valencia ...                | 30.39                              | 53                   | E     | 2                 | om       | 30.26                            | -.19                              | 54          | 52   | + 3                               | SW    | 3                 | omg      | 3             | 54          | 50   | —                   |  |  |
| Roche's Point...            | 30.41                              | 53                   | SSE   | 3                 | om       | 30.27                            | -.20                              | 45          | 43   | - 8                               | N     | 2                 | bm       | 3             | 54          | 42   | —                   |  |  |
| Pembroke ...                | 30.44                              | 52                   | S     | 2                 | o        | 30.27                            | -.24                              | 51          | 50   | + 1                               | SW    | 3                 | ba       | 2             | 53          | 50   | —                   |  |  |
| Scilly ...                  | 30.43                              | 52                   | SSE   | 4                 | bc       | 30.30                            | -.16                              | 51          | 49   | - 2                               | Z     | 0                 | om       | 2             | 55          | 49   | —                   |  |  |
| Prawle Point ...            | 30.49                              | 50                   | ESE   | 4                 | bc       | 30.32                            | -.22                              | 50          | 48   | - 1                               | W     | 1                 | om       | 2             | 50          | 42   | —                   |  |  |
| Jersey ...                  | 30.49                              | 49                   | E     | 2                 | b        | 30.34                            | -.22                              | 49          | 45   | + 2                               | SE    | 1                 | bm       | 1             | 55          | 38   | —                   |  |  |
| Hurst Castle ...            | 30.51                              | 48                   | SSE   | 3                 | bc       | 30.33                            | -.25                              | 45          | 44   | + 5                               | N     | 1                 | cm       | 0             | 56          | 57   | —                   |  |  |
| Dungeness ...               | 30.52                              | 48                   | WSW   | 2                 | c        | 30.34                            | -.22                              | 39          | 37   | + 3                               | W     | 3                 | c        | 2             | 56          | 36   | —                   |  |  |
| London ...                  | 30.53                              | 37                   | SW    | 1                 | bmw      | 30.33                            | -.27                              | 39          | 38   | + 11                              | SSW   | 1                 | cm       | *             | 52          | 28   | —                   |  |  |
| Oxford ...                  | 30.50                              | 44                   | SE    | 1                 | c        | 30.22                            | -.30                              | 44          | 40   | + 15                              | S     | 1                 | ogm      | *             | 57          | 27   | —                   |  |  |
| Cambridge ...               | 30.50                              | 40                   | SSW   | 1                 | b        | 30.29                            | -.31                              | 41          | 40   | + 12                              | SW    | 1                 | c        | *             | 53          | 27   | —                   |  |  |
| Yarmouth ...                | 30.49                              | 46                   | SW    | 1                 | b        | 30.27                            | -.29                              | 43          | 42   | 0                                 | WSW   | 3                 | bm       | 2             | 49          | 38   | —                   |  |  |
| Cuxhaven ...                | 30.45                              | 45                   | SW    | 1                 | c        | 30.25                            | -.16                              | 44          | 43   | - 2                               | SW    | 5                 | o        | *             | 48          | 42   | 0.02                |  |  |
| Berlin ...                  | 30.49                              | 41                   | NW    | 2                 | c        | 30.36                            | -.07                              | 36          | 35   | 0                                 | WSW   | 2                 | c        | *             | 44          | 34   | —                   |  |  |
| Wiesbaden ...               | *                                  | *                    | *     | *                 | *        | 30.45                            | -.12                              | 31          | 31   | - 6                               | Z     | 0                 | b        | *             | 41          | 28   | —                   |  |  |
| Munich ...                  | 30.38                              | 35                   | E     | 4                 | c        | 30.45                            | -.08                              | 28          | 27   | - 9                               | SE    | 3                 | b        | *             | 43          | 25   | —                   |  |  |
| FRANCE & NETHERLANDS.       |                                    |                      |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |               |             |      |                     |  |  |
| The Helder ...              | 30.47                              | 47                   | SW    | 3                 | c        | 30.26                            | -.28                              | 47          | 46   | + 2                               | SW    | 4                 | c        | 3             | 48          | 45   | —                   |  |  |
| Brussels ...                | *                                  | *                    | *     | *                 | *        | 30.39                            | -.19                              | 38          | 36   | - 3                               | S     | 1                 | c        | *             | 49          | 36   | —                   |  |  |
| Cape Gris Nez...            | 30.49                              | 43                   | SE    | 3                 | b        | 30.37                            | -.20                              | 38          | 37   | - 7                               | S     | 3                 | b        | 2             | 52          | 37   | —                   |  |  |
| Paris ...                   | 30.53                              | 40                   | NE    | 1                 | b        | 30.40                            | -.16                              | 28          | 28   | - 7                               | N     | 1                 | b        | *             | ?           | 28   | —                   |  |  |
| Brest ...                   | 30.45                              | 51                   | NE    | 1                 | o        | 30.35                            | -.14                              | 42          | 41   | - 4                               | ESE   | 3                 | o        | 3             | 61          | 37   | —                   |  |  |
| Lorient ...                 | 30.39                              | 52                   | E     | 3                 | b        | 30.31                            | -.18                              | 41          | 39   | - 2                               | ESE   | 3                 | b        | 2             | 57          | 39   | —                   |  |  |
| Rocheport ...               | 30.40                              | 52                   | ENE   | 5                 | b        | 30.35                            | -.07                              | 41          | 39   | - 1                               | SSE   | 3                 | b        | ?             | 63          | 36   | —                   |  |  |
| Belfort ...                 | 30.45                              | 42                   | NE    | 3                 | b        | 30.42                            | -.04                              | 38          | 36   | - 5                               | NE    | 1                 | b        | *             | 50          | 22   | —                   |  |  |
| Lyons ...                   | 30.47                              | 44                   | NNW   | 1                 | b        | 30.46                            | + .01                             | 31          | 31   | - 6                               | N     | 1                 | f        | *             | 49          | 31   | —                   |  |  |
| Nice ...                    | 30.30                              | 55                   | Z     | 0                 | bo       | 30.44                            | + .19                             | 48          | 44   | - 2                               | E     | 1                 | b        | 3             | 64          | 44   | —                   |  |  |
| Perpignan ...               | 30.38                              | 48                   | E     | 3                 | b        | 30.44                            | + .12                             | 38          | 37   | 0                                 | E     | 3                 | b        | *             | 62          | 36   | —                   |  |  |
| Barritz ...                 | 30.32                              | 44                   | E     | 3                 | b        | 30.27                            | -.01                              | 57          | 47   | + 11                              | S     | 4                 | b        | 1             | 59          | 45   | —                   |  |  |
| Corunna ...                 | *                                  | *                    | *     | *                 | *        | 30.21                            | -.01                              | 56          | 51   | + 7                               | E     | 3                 | b        | 2             | 72          | 46   | —                   |  |  |
| Lisbon ...                  | 30.15                              | 65                   | NNE   | 5                 | b        | 30.24                            | + .06                             | 54          | 48   | 0                                 | NNE   | 5                 | b        | 2             | 72          | 52   | —                   |  |  |



For Explanation of Columns, see p. 4.



## 1887

(Explanation of Map)

$\rightarrow$  = forces above  $W$ ,  $\rightarrow$  = forces  $B$  to  $X$ ,  
 $\rightarrow$  = forces  $S$  to  $T$ ,  $\rightarrow$  = forces  $1$  to  $4$ ,  
 $\odot$  = dead calm.

Sea Disturbance—where considerable is shown thus  
 = Rough.  = High

at 8 a.m. for the month of October—  
During the 10 Years 1871—1880

A hand-drawn weather map of the North Atlantic region, showing isobars, isotherms, and weather systems. The map includes the following features:

- Isobars:** Labeled with values such as 28.9, 29.0, 29.1, 29.2, 29.3, 29.4, 29.5, 29.6, 29.7, 29.8, 29.9, 30.0, 30.1, 30.2, 30.3, 30.4, 30.5, 30.6, 30.7, 30.8, 30.9, 31.0, 31.1, 31.2, 31.3, 31.4, 31.5, 31.6, 31.7, 31.8, 31.9, 32.0, 32.1, 32.2, 32.3, 32.4, 32.5, 32.6, 32.7, 32.8, 32.9, 33.0, 33.1, 33.2, 33.3, 33.4, 33.5, 33.6, 33.7, 33.8, 33.9, 34.0, 34.1, 34.2, 34.3, 34.4, 34.5, 34.6, 34.7, 34.8, 34.9, 35.0, 35.1, 35.2, 35.3, 35.4, 35.5, 35.6, 35.7, 35.8, 35.9, 36.0, 36.1, 36.2, 36.3, 36.4, 36.5, 36.6, 36.7, 36.8, 36.9, 37.0, 37.1, 37.2, 37.3, 37.4, 37.5, 37.6, 37.7, 37.8, 37.9, 38.0, 38.1, 38.2, 38.3, 38.4, 38.5, 38.6, 38.7, 38.8, 38.9, 39.0, 39.1, 39.2, 39.3, 39.4, 39.5, 39.6, 39.7, 39.8, 39.9, 40.0, 40.1, 40.2, 40.3, 40.4, 40.5, 40.6, 40.7, 40.8, 40.9, 41.0, 41.1, 41.2, 41.3, 41.4, 41.5, 41.6, 41.7, 41.8, 41.9, 42.0, 42.1, 42.2, 42.3, 42.4, 42.5, 42.6, 42.7, 42.8, 42.9, 43.0, 43.1, 43.2, 43.3, 43.4, 43.5, 43.6, 43.7, 43.8, 43.9, 44.0, 44.1, 44.2, 44.3, 44.4, 44.5, 44.6, 44.7, 44.8, 44.9, 45.0, 45.1, 45.2, 45.3, 45.4, 45.5, 45.6, 45.7, 45.8, 45.9, 46.0, 46.1, 46.2, 46.3, 46.4, 46.5, 46.6, 46.7, 46.8, 46.9, 47.0, 47.1, 47.2, 47.3, 47.4, 47.5, 47.6, 47.7, 47.8, 47.9, 48.0, 48.1, 48.2, 48.3, 48.4, 48.5, 48.6, 48.7, 48.8, 48.9, 49.0, 49.1, 49.2, 49.3, 49.4, 49.5, 49.6, 49.7, 49.8, 49.9, 50.0, 50.1, 50.2, 50.3, 50.4, 50.5, 50.6, 50.7, 50.8, 50.9, 51.0, 51.1, 51.2, 51.3, 51.4, 51.5, 51.6, 51.7, 51.8, 51.9, 52.0, 52.1, 52.2, 52.3, 52.4, 52.5, 52.6, 52.7, 52.8, 52.9, 53.0, 53.1, 53.2, 53.3, 53.4, 53.5, 53.6, 53.7, 53.8, 53.9, 54.0, 54.1, 54.2, 54.3, 54.4, 54.5, 54.6, 54.7, 54.8, 54.9, 55.0, 55.1, 55.2, 55.3, 55.4, 55.5, 55.6, 55.7, 55.8, 55.9, 56.0, 56.1, 56.2, 56.3, 56.4, 56.5, 56.6, 56.7, 56.8, 56.9, 57.0, 57.1, 57.2, 57.3, 57.4, 57.5, 57.6, 57.7, 57.8, 57.9, 58.0, 58.1, 58.2, 58.3, 58.4, 58.5, 58.6, 58.7, 58.8, 58.9, 59.0, 59.1, 59.2, 59.3, 59.4, 59.5, 59.6, 59.7, 59.8, 59.9, 60.0, 60.1, 60.2, 60.3, 60.4, 60.5, 60.6, 60.7, 60.8, 60.9, 61.0, 61.1, 61.2, 61.3, 61.4, 61.5, 61.6, 61.7, 61.8, 61.9, 62.0, 62.1, 62.2, 62.3, 62.4, 62.5, 62.6, 62.7, 62.8, 62.9, 63.0, 63.1, 63.2, 63.3, 63.4, 63.5, 63.6, 63.7, 63.8, 63.9, 64.0, 64.1, 64.2, 64.3, 64.4, 64.5, 64.6, 64.7, 64.8, 64.9, 65.0, 65.1, 65.2, 65.3, 65.4, 65.5, 65.6, 65.7, 65.8, 65.9, 66.0, 66.1, 66.2, 66.3, 66.4, 66.5, 66.6, 66.7, 66.8, 66.9, 67.0, 67.1, 67.2, 67.3, 67.4, 67.5, 67.6, 67.7, 67.8, 67.9, 68.0, 68.1, 68.2, 68.3, 68.4, 68.5, 68.6, 68.7, 68.8, 68.9, 69.0, 69.1, 69.2, 69.3, 69.4, 69.5, 69.6, 69.7, 69.8, 69.9, 70.0, 70.1, 70.2, 70.3, 70.4, 70.5, 70.6, 70.7, 70.8, 70.9, 71.0, 71.1, 71.2, 71.3, 71.4, 71.5, 71.6, 71.7, 71.8, 71.9, 72.0, 72.1, 72.2, 72.3, 72.4, 72.5, 72.6, 72.7, 72.8, 72.9, 73.0, 73.1, 73.2, 73.3, 73.4, 73.5, 73.6, 73.7, 73.8, 73.9, 74.0, 74.1, 74.2, 74.3, 74.4, 74.5, 74.6, 74.7, 74.8, 74.9, 75.0, 75.1, 75.2, 75.3, 75.4, 75.5, 75.6, 75.7, 75.8, 75.9, 76.0, 76.1, 76.2, 76.3, 76.4, 76.5, 76.6, 76.7, 76.8, 76.9, 77.0, 77.1, 77.2, 77.3, 77.4, 77.5, 77.6, 77.7, 77.8, 77.9, 78.0, 78.1, 78.2, 78.3, 78.4, 78.5, 78.6, 78.7, 78.8, 78.9, 79.0, 79.1, 79.2, 79.3, 79.4, 79.5, 79.6, 79.7, 79.8, 79.9, 80.0, 80.1, 80.2, 80.3, 80.4, 80.5, 80.6, 80.7, 80.8, 80.9, 81.0, 81.1, 81.2, 81.3, 81.4, 81.5, 81.6, 81.7, 81.8, 81.9, 82.0, 82.1, 82.2, 82.3, 82.4, 82.5, 82.6, 82.7, 82.8, 82.9, 83.0, 83.1, 83.2, 83.3, 83.4, 83.5, 83.6, 83.7, 83.8, 83.9, 84.0, 84.1, 84.2, 84.3, 84.4, 84.5, 84.6, 84.7, 84.8, 84.9, 85.0, 85.1, 85.2, 85.3, 85.4, 85.5, 85.6, 85.7, 85.8, 85.9, 86.0, 86.1, 86.2, 86.3, 86.4, 86.5, 86.6, 86.7, 86.8, 86.9, 87.0, 87.1, 87.2, 87.3, 87.4, 87.5, 87.6, 87.7, 87.8, 87.9, 88.0, 88.1, 88.2, 88.3, 88.4, 88.5, 88.6, 88.7, 88.8, 88.9, 89.0, 89.1, 89.2, 89.3, 89.4, 89.5, 89.6, 89.7, 89.8, 89.9, 90.0, 90.1, 90.2, 90.3, 90.4, 90.5, 90.6, 90.7, 90.8, 90.9, 91.0, 91.1, 91.2, 91.3, 91.4, 91.5, 91.6, 91.7, 91.8, 91.9, 92.0, 92.1, 92.2, 92.3, 92.4, 92.5, 92.6, 92.7, 92.8, 92.9, 93.0, 93.1, 93.2, 93.3, 93.4, 93.5, 93.6, 93.7, 93.8, 93.9, 94.0, 94.1, 94.2, 94.3, 94.4, 94.5, 94.6, 94.7, 94.8, 94.9, 95.0, 95.1, 95.2, 95.3, 95.4, 95.5, 95.6, 95.7,

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:

A hand-drawn map of Europe and surrounding regions, showing isotherms and handwritten annotations. The map includes latitude lines at 40° and 50° North. Isotherms are drawn and labeled with handwritten text: "WARMER" near the British Isles, "SEVERAL DEGREES" across central Europe, and "COLDER" in the south. Specific locations are circled and labeled: "Rain" in the British Isles, "Rain 17th of June" in central Europe, and "HAP 30" in the south. Numerous numerical values are scattered across the map, representing temperature or other data points, such as 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1, 0, -1, -2, -3, -4, -5, -6, -7, -8, -9, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -50, -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.

*Note* - The Temperature means are for the 15 years 1871-80, the Rainfall means are mainly those for the 20 years 1866-85



## GENERAL SITUATION AT 8 A.M.

### PRESSURE

Highest, 30.4 ins. and upwards, in an anticyclone lying over South Germany and the south and east of France.  
Lowest, 28.9 and less, in a depression lying off the north-west of Norway. A secondary disturbance is lying over the South of Scandinavia and another off the east of Scotland.  
Gradients steep over Scandinavia and the North Sea. Barometer falling generally, - quickly in Scandinavia.

### TEMPERATURE

Highest, 57° at Biarritz, 56° at Göttingen, 54° at Valencia and Lisbon, 53° at Belmullet, and 52° at Anderson and Malin Hds.  
Lowest, 28° at Murmansk and Leno, 31° at Munksgaard and Leno, 35° at Bodø, and 36° at Christiansund and Bergen.

### WIND

Light or moderate from S. or SE. over France and South Germany; light from N. in the north-east of Scotland.  
Chiefly SW elsewhere, moderate in force over our Islands, but strong to gale in Norway.

### WEATHER

Fine in Spain, France, and South Germany, but cloudy or overcast elsewhere, with rain at Skudsmo, Aberdeen and Larne (Larne).  
[Rain fell yesterday at our extreme northern and northwestern stations.]

### SEA

High at Christiansund and rough at Leno, but slight or smooth elsewhere.

### PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone noticed over our southern districts yesterday has moved southwards to the Continent, the barometer has fallen generally, and the centre of a deep depression has appeared off the north of Norway. The disturbance will probably move eastwards but conditions are being complicated by the appearance of secondary depressions over the south of Norway and off the east of England.

## FORECASTS

for the 24 hours ending at NOON on 24<sup>th</sup> OCTOBER 1887.

### 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

The south cone was hoisted last evening in districts 0, 6, 9, and part of 1.

Note.—The South Cone, point downwards (↓) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.  
The North Cone, point upwards (↑) 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.  | Dry. | Wet. | Wind. | Wes. | Sea. |   | Bar.          | Dry.  | Wet. | Wind. | Wes. | Sea. |    |   |
|-------------------|-------|------|------|-------|------|------|---|---------------|-------|------|-------|------|------|----|---|
| Skudeneas ...     | 30.16 | 48   | 44   | WSW   | 7    | 0    | 4 | Holyhead ...  | 30.47 | 52   | 48    | SSW  | 3    | on | 2 |
| Sumburgh Head ... | 29.90 | 50   | 50   | WSW   | 6    | r    | 5 | Valencia ...  | 30.42 | 54   | 51    | SSE  | 4    | on | 4 |
| Stornoway ...     | 30.09 | 50   | 52   | SW    | 6    | r    | 5 | Scilly ...    | 30.44 | 53   | 49    | SE   | 4    | c  | 4 |
| Aberdeen ...      | 30.23 | 49   | 45   | SW    | 4    | c    | 1 | Dungeness ... | 30.51 | 53   | 48    | WSW  | 2    | bc | 1 |
| Shields ...       | 30.38 | 51   | 47   | SSW   | 3    | bc   | 2 | London ...    | 30.45 | 51   | 45    | W    | 2    | bc | 1 |
| Ardrossan ...     | 30.35 | 54   | 53   | SSW   | 3    | 0    | 2 | Yarmouth ...  | 30.53 | 49   | 44    | WSW  | 2    | bc | 3 |
| Malin Head ...    | 30.34 | 52   | 49   | SW    | 3    | 0    | 3 | Jersey ...    | 30.51 | 54   | 48    | E    | 3    | b  | 3 |
| Mullaghmore ...   | 30.38 | 50   | 46   | S     | 4    | 0    | 2 | Rocheport ... | 30.40 | 60   | 41    | ENE  | 7    | b  | 2 |
| Belmullet ...     | 30.37 | 54   | 49   | SSW   | 3    | c    | * |               |       |      |       |      |      |    |   |

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

The reports for yesterday morning showed that a large anticyclonic system, in which the maximum readings varied from 30.5 ins. to upwards of 30.6 ins., lay over Ireland, England, and the north of France while readings as low as 29.8 ins. were reported in the extreme north of Norway, and about 30.2 ins. over the Gulf of Genoa. Thus, while S. breezes, and dull, mild weather prevailed in the west of Ireland, W. and SW. winds and mild showery weather were experienced over Scotland, and the northwest of Scandinavia, while NW. winds and showery weather were felt over the Baltic, the North Sea, and North Germany. Over Southern Europe the wind was NE., and the weather fine and bright, but over England calms and fogs were reported. Temperature had risen in the northwest of our Islands, fallen over England and the Continent generally, and ranged from 60° and more over many parts of the Mediterranean and from upwards of 50° in the southwest of the British Isles, to several degrees below the freezing point over the north of Russia, as well as at some of the inland stations and in France. The highest individual values were 64° at Algiers, 63° at Malta, 61° at Rhénis, 59° at Langunaise, 58° at Bilbao, and 53° at Scilly and Rocher Point; the lowest 15° at Uleaborg, 13° at Kuopio, 14° at Loughborough (Leicester), 28° at Haparanda and in London, and 23° at Clermont.

Temperature subsequently rose in the north and northwest, as a large depression advanced eastwards over the north of Scandinavia and the anticyclone in the south moved south-eastwards towards Austria.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for *Monday 24<sup>th</sup> OCT<sup>r</sup>* 1887.  
 Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

| STATIONS.             | + YESTERDAY EVENING.                        |                    |       |                      |                  | 8 A.M. TO DAY.                            |   |             |      |   |       |                      |                                  |                   |             | PAST 24 HOURS. |                           |  |
|-----------------------|---|--------------------|-------|----------------------|------------------|---|---|-------------|------|---|-------|----------------------|----------------------------------|-------------------|-------------|----------------|---------------------------|--|
|                       | Barometer<br>at 32° F.<br>and<br>Sea Level. | Temp. in<br>Shade. | WIND. |                      | Weather.         | BAROMETER.                                |   | SHADE TEMP. |      |   | WIND. |                      | Weather.                         | Sea.<br>(0 to 9.) | SHADE TEMP. |                | Amount<br>of<br>Rainfall. |  |
|                       |   |                    | Dir.  | Force.<br>(0 to 12.) |                  | Reading<br>at 32° F.<br>and<br>Sea Level. | Difference<br>from 8 a.m.<br>yesterday. | Dry.        | Wet. | Difference<br>from 8 a.m.<br>yesterday. | Dir.  | Force.<br>(0 to 12.) |                                  |                   | Max.        | Min.           |                           |  |
| SCANDINAVIA.          |   |                    |       |                      |                  |   |   |             |      |   |       |                      |                                  |                   |             |                |                           |  |
| Haparanda ..          | 29.93                                       | 39                 | Z     | 0                    | S                | 29.12                                     | - .02                                   | 21          | 20   | - 16                                    | Z     | 0                    | b <sub>c</sub>                   | *                 | ?           | 21             | 0.12                      |  |
| Hernösand ...         | 29.21                                       | 37                 | W     | 6                    | b                | 29.29                                     | + .01                                   | 31          | 30   | - 6                                     | Z     | 0                    | b                                | *                 | 46          | ?              | -                         |  |
| Stockholm ...         | 29.44                                       | 42                 | SEW   | 2                    | b                | 29.46                                     | - .17                                   | 32          | 30   | - 13                                    | SW    | 2                    | c                                | *                 | 30          | ?              | 0.04                      |  |
| Wiaby ...             |   |                    |       |                      |                  |   |   |             |      |   |       |                      |                                  |                   |             |                |                           |  |
| Bodö ...              |   |                    |       |                      |                  |   |   |             |      |   |       |                      |                                  |                   |             |                |                           |  |
| Christiansund...      | 29.03                                       | 39                 | SEF   | 2                    | C                | 29.42                                     | + .53                                   | 31          | 29   | - 4                                     | NNW   | 6                    | c                                | 3                 | 39          | 30             | 0.16                      |  |
| Skudesnaes ...        | 29.43                                       | 41                 | W     | 6                    | r                | 29.65                                     | + .27                                   | 35          | 32   | - 1                                     | N     | 4                    | s                                | 6                 | 43          | 34             | 0.47                      |  |
| Christiania Fjord     | 29.67                                       | 40                 | NW    | 5                    | b <sub>c</sub>   | 29.63                                     | - .13                                   | 29          | 36   | - 5                                     | NNW   | 6                    | c                                | 4                 | 45          | 39             | -                         |  |
| (Fjord)               | 29.54                                       | 39                 | NNW   | 5                    | b                | 29.49                                     | - .02                                   | 39          | 31   | - 12                                    | NNW   | 3                    | b                                | 3                 | 50          | 37             | -                         |  |
| Skagen (The Sea)      | 29.57                                       | 41                 | NW    | 4                    | b <sub>c</sub>   | 29.48                                     | - .28                                   | 39          | 35   | - 9                                     | N     | 1                    | b                                | 0                 | 48          | 37             | 0.04                      |  |
| Faenø ...             | 29.73                                       | 45                 | NNW   | 3                    | r                | 29.49                                     | - .53                                   | 39          | 38   | - 10                                    | NNW   | 4                    | r                                | *                 | 52          | 39             | 0.75                      |  |
| BRITISH ISLANDS.      |   |                    |       |                      |                  |   |   |             |      |   |       |                      |                                  |                   |             |                |                           |  |
| Sumburgh Head         | 29.80                                       | 34                 | N     | 4                    | b <sub>c</sub>   | 30.03                                     | + .22                                   | 32          | 32   | - 8                                     | N     | 3                    | s                                | 3                 | 41          | 29             | 0.07                      |  |
| Stornoway ...         | 29.96                                       | 35                 | N     | 6                    | oph              | 30.30                                     | + .34                                   | 32          | 32   | - 11                                    | N     | 5                    | o                                | 5                 | 43          | 31             | 0.22                      |  |
| Wick ...              | 29.90                                       | 34                 | N     | 2                    | o                | 30.17                                     | + .26                                   | 35          | 32   | - 7                                     | N     | 6                    | c                                | 2                 | 44          | 31             | 0.24                      |  |
| Nairn ...             | 29.93                                       | 40                 | NW    | 2                    | C                | 30.23                                     | + .26                                   | 36          | 34   | - 8                                     | NNW   | 3                    | cp                               | 2                 | 43          | 34             | 0.10                      |  |
| Aberdeen...           | 29.86                                       | 41                 | NW    | 3                    | cp               | 30.05                                     | + .12                                   | 35          | 33   | - 9                                     | N     | 6                    | b <sub>c</sub> q                 | 4                 | 48          | 32             | 0.24                      |  |
| Leith ...             | 29.91                                       | 45                 | W     | 2                    | b                | 30.15                                     | + .17                                   | 36          | 33   | - 14                                    | NNW   | 2                    | b                                | *                 | 53          | 34             | 0.05                      |  |
| Shields ...           | 29.89                                       | 50                 | W     | 1                    | r                | 30.05                                     | + .01                                   | 36          | 33   | - 14                                    | NW    | 4                    | c                                | 4                 | 54          | 34             | 0.14                      |  |
| Spurn Head ...        | 29.97                                       | 50                 | SW    | 4                    | o                | 29.91                                     | - .18                                   | 38          | 37   | - 9                                     | NW    | 7                    | b <sub>c</sub> q <sub>rs</sub> p | 5                 | 52          | 35             | 0.20                      |  |
| York ...              | 30.01                                       | 51                 | W     | 2                    | o                | 30.03                                     | - .13                                   | 34          | 32   | - 14                                    | N     | 4                    | b                                | *                 | 54          | 33             | 0.04                      |  |
| Loughborough          | 30.06                                       | 52                 | WSW   | 3                    | o                | 30.04                                     | - .22                                   | 37          | 34   | - 8                                     | NW    | 4                    | b                                | *                 | 53          | 36             | 0.05                      |  |
| GERMANY.              |   |                    |       |                      |                  |   |   |             |      |   |       |                      |                                  |                   |             |                |                           |  |
| Ardrossan ...         | 29.98                                       | 48                 | NW    | 4                    | op               | 30.21                                     | + .17                                   | 36          | 34   | - 16                                    | NW    | 2                    | b                                | 1                 | 52          | 33             | 0.11                      |  |
| Malin Head ...        | 30.05                                       | 48                 | NW    | 3                    | b <sub>c</sub> p | 30.28                                     | + .24                                   | 40          | 37   | - 12                                    | NNW   | 4                    | b <sub>c</sub> q <sub>rs</sub> p | 4                 | 53          | 37             | 0.06                      |  |
| Mullaghmore ...       | 30.11                                       | 50                 | NW    | 6                    | r <sub>q</sub>   | 30.36                                     | + .20                                   | 42          | 38   | - 7                                     | N     | 5                    | b <sub>c</sub> z <sub>m</sub>    | 4                 | 55          | 40             | 0.21                      |  |
| Belmullet ...         | 30.15                                       | 52                 | NNW   | 3                    | C                | 30.43                                     | + .26                                   | 42          | 38   | - 11                                    | N     | 3                    | c                                | *                 | 55          | 41             | 0.06                      |  |
| Donaghadee ...        | 30.04                                       | 48                 | W     | 1                    | o                | 30.24                                     | + .11                                   | 42          | 39   | - 6                                     | NE    | 6                    | b                                | 5                 | 55          | 39             | 0.17                      |  |
| IRELAND.              |   |                    |       |                      |                  |   |   |             |      |   |       |                      |                                  |                   |             |                |                           |  |
| Barrow-in-Furness     | 30.06                                       | 52                 | WSW   | 4                    | r                | 30.13                                     | - .03                                   | 37          | 34   | - 14                                    | NNW   | 4                    | b                                | *                 | 52          | 35             | 0.16                      |  |
| Liverpool (Bidston)   | 30.02                                       | 49                 | WSW   | 4                    | o                | 30.15                                     | - .05                                   | 39          | 35   | - 9                                     | NNW   | 4                    | b                                | 4                 | 54          | 39             | 0.13                      |  |
| Holyhead ...          | 30.08                                       | 53                 | WSW   | 3                    | om               | 30.20                                     | - .02                                   | 44          | 38   | - 7                                     | N     | 6                    | b <sub>p</sub> q                 | 5                 | 54          | 39             | 0.12                      |  |
| Parsonstown ...       | 30.15                                       | 56                 | W     | 2                    | C                | 30.38                                     | + .18                                   | 35          | 34   | - 11                                    | NW    | 2                    | b                                | *                 | 56          | 34             | 0.06                      |  |
| Valencia ...          | 30.24                                       | 54                 | NNW   | 3                    | cf               | 30.41                                     | + .15                                   | 47          | 44   | - 7                                     | NNE   | 3                    | cp                               | 3                 | 57          | 44             | 0.01                      |  |
| FRANCE & NETHERLANDS. |   |                    |       |                      |                  |   |   |             |      |   |       |                      |                                  |                   |             |                |                           |  |
| Roche's Point...      | 30.19                                       | 53                 | NNW   | 3                    | C                | 30.36                                     | + .09                                   | 44          | 42   | - 1                                     | N     | 3                    | b                                | 3                 | 50          | 41             | -                         |  |
| Pembroke ...          | 30.14                                       | 53                 | W     | 4                    | C                | 30.22                                     | - .05                                   | 44          | 43   | - 7                                     | NNW   | 5                    | b <sub>c</sub>                   | 3                 | 51          | 43             | -                         |  |
| Seilly ...            | 30.23                                       | 53                 | NNW   | 4                    | o                | 30.25                                     | - .05                                   | 51          | 47   | 0                                       | N     | 6                    | cp                               | 5                 | 58          | 49             | -                         |  |
| Prawle Point ...      | 30.21                                       | 51                 | W     | 3                    | C                | 30.17                                     | - .15                                   | 46          | 43   | - 4                                     | NNW   | 5                    | b <sub>c</sub>                   | 4                 | 57          | 42             | 0.02                      |  |
| Jersey ...            | 30.21                                       | 47                 | ESE   | 2                    | b <sub>c</sub>   | 30.11                                     | - .23                                   | 31          | 49   | + 2                                     | NW    | 5                    | cp                               | 4                 | 55          | 43             | 0.05                      |  |
| NETHERLANDS.          |   |                    |       |                      |                  |   |   |             |      |   |       |                      |                                  |                   |             |                |                           |  |
| Hurst Castle ...      | 30.18                                       | 51                 | NNW   | 3                    | C                | 30.07                                     | - .26                                   | 45          | 42   | 0                                       | NNW   | 4                    | b                                | 1                 | 55          | 43             | -                         |  |
| Dungeness ...         | 30.20                                       | 50                 | WSW   | 4                    | C                | 29.90                                     | - .44                                   | 43          | 41   | + 4                                     | NNW   | 4                    | C                                | 2                 | 55          | 37             | -                         |  |
| London ...            | 30.13                                       | 46                 | W     | 3                    | b <sub>c</sub>   | 29.99                                     | - .34                                   | 41          | 38   | + 2                                     | NNW   | 4                    | b <sub>c</sub>                   | *                 | 54          | 39             | 0.07                      |  |
| Oxford ...            | 30.08                                       | 45                 | SW    | 3                    | o                | 30.06                                     | - .26                                   | 40          | 37   | - 2                                     | NNW   | 4                    | b <sub>v</sub>                   | *                 | 54          | 40             | 0.08                      |  |
| Cambridge ...         | 30.09                                       | 48                 | SW    | 1                    | o                | 29.99                                     | - .30                                   | 38          | 35   | - 3                                     | NW    | 3                    | b                                | *                 | 55          | 36             | 0.20                      |  |
| FRANCE.               |   |                    |       |                      |                  |   |   |             |      |   |       |                      |                                  |                   |             |                |                           |  |
| Yarmouth ...          | 30.07                                       | 48                 | WSW   | 3                    | b <sub>m</sub>   | 29.84                                     | - .43                                   | 39          | 38   | - 4                                     | NNW   | 6                    | op <sub>rs</sub> h               | 5                 | 52          | 38             | 0.17                      |  |
| NETHERLANDS.          |   |                    |       |                      |                  |   |   |             |      |   |       |                      |                                  |                   |             |                |                           |  |
| Cuxhaven ...          | 30.02                                       | 44                 | SW    | 6                    | o                | 29.82                                     | - .73                                   | 44          | 43   | 0                                       | SW    | 3                    | C                                | *                 | 45          | 43             | 0.28                      |  |
| Berlin ...            | 30.08                                       | 39                 | SW    | 2                    | b                | 29.68                                     | - .68                                   | 39          | 36   | + 3                                     | SW    | 3                    | o                                | *                 | 48          | 36             | -                         |  |
| Wiesbaden ...         | *   | *                  | *     | *                    | *                | 29.77                                     | - .68                                   | 37          | 36   | + 6                                     | Z     | 0                    | C                                | *                 | 45          | 32             | -                         |  |
| Munich ...            | 30.25                                       | 30                 | Z     | 0                    | b                | 30.00                                     | - .44                                   | 41          | 37   | + 13                                    | SW    | 4                    | o                                | *                 | 45          | 30             | -                         |  |
| FRANCE.               |   |                    |       |                      |                  |   |   |             |      |   |       |                      |                                  |                   |             |                |                           |  |
| The Helder ...        | 29.96                                       | 49                 | SW    | 5                    | o                | 29.63                                     | - .63                                   | 41          | 40   | - 6                                     | N     | 5                    | r                                | 3                 | 50          | 41             | 0.47                      |  |
| Brussels ...          | *   | *                  | *     | *                    | *                | 29.78                                     | - .61                                   | 42          | 42   | + 4                                     | W     | 4                    | r                                | *                 | 49          | ?              | 0.16                      |  |
| Cape Gris Nez...      | 30.16                                       | 47                 | SW    | 3                    | C                | 29.83                                     | - .54                                   | 47          | 45   | + 9                                     | NNW   | 8                    | o                                | 6                 | 54          | 39             | -                         |  |
| Paris ...             | 30.24                                       | 44                 | SW    | 1                    | o                | 30.09                                     | - .31                                   | 39          | 38   | + 11                                    | SSW   | 3                    | o                                | *                 | 54          | ?              | 28                        |  |
| Brest ...             | 30.27                                       | 50                 | NW    | 3                    | f                | 30.22                                     | - .13                                   | 52          | 49   | + 10                                    | NW    | 7                    | o                                | 4                 | 59          | 37             | -                         |  |
| Lorient ...           | 30.23                                       | 52                 | W     | 1                    | b <sub>c</sub>   | 30.20                                     | - .11                                   | 52          | 50   | + 11                                    | NW    | 4                    | b                                | 2                 | 54          | ?              | 41                        |  |
| Rocheport ...         | 30.27                                       | 55                 | SSW   | 1                    | b <sub>c</sub>   | 30.23                                     | - .12                                   | 50          | 48   | + 9                                     | NW    | 5                    | o                                | 2                 | 63          | ?              | 41                        |  |
| Belfort ...           | 30.09                                       | 44                 | NE    | 3                    | b                | 29.97                                     | - .45                                   | 47          | 44   | + 9                                     | W     | 3                    | b                                | *                 | 54          | 30             | -                         |  |
| Lyons ...             | 30.30                                       | 51                 | S     | 4                    | b                | 30.14                                     | - .32                                   | 43          | 40   | + 12                                    | SSW   | 3                    | r                                | *                 | 61          | ?              | 31                        |  |
| Nice ...              | 30.33                                       | 53                 | W     | 1                    | b <sub>c</sub>   | 30.16                                     | - .28                                   | 48          | 45   | 0                                       | ENE   | 3                    | C                                | 1                 | 61          | 45             | -                         |  |
| NETHERLANDS.          |   |                    |       |                      |                  |   |   |             |      |   |       |                      |                                  |                   |             |                |                           |  |
| Perpignan ...         | 30.33                                       | 54                 | E     | 3                    | b                | 30.23                                     | - .21                                   | 41          | 41   | + 3                                     | E     | 3                    | b                                | *                 | 62          | ?              | -                         |  |
| Biarritz ...          | 30.25                                       | 50                 | S     | 4                    | b                | 30.26                                     | - .01                                   | 58          | 55   | + 1                                     | W     | 7                    | o                                | 2                 | 73          | ?              | -                         |  |
| FRANCE.               |   |                    |       |                      |                  |   |   |             |      |   |       |                      |                                  |                   |             |                |                           |  |
| Corunna ...           | *   | *                  | *     | *                    | *                |   |   |             |      |   |       |                      |                                  |                   |             |                |                           |  |
| Lisbon ...            | 30.23                                       | 61                 | NE    | 7                    | b                | 30.28                                     | + .04                                   | 54          | 49   | 0                                       | NNE   | 5                    | b                                | 2                 | 72          | 52             | -                         |  |

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on Monday, 24<sup>th</sup> OCTOBER 1887.

## BAROMETER, WIND & 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 prevailed 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.

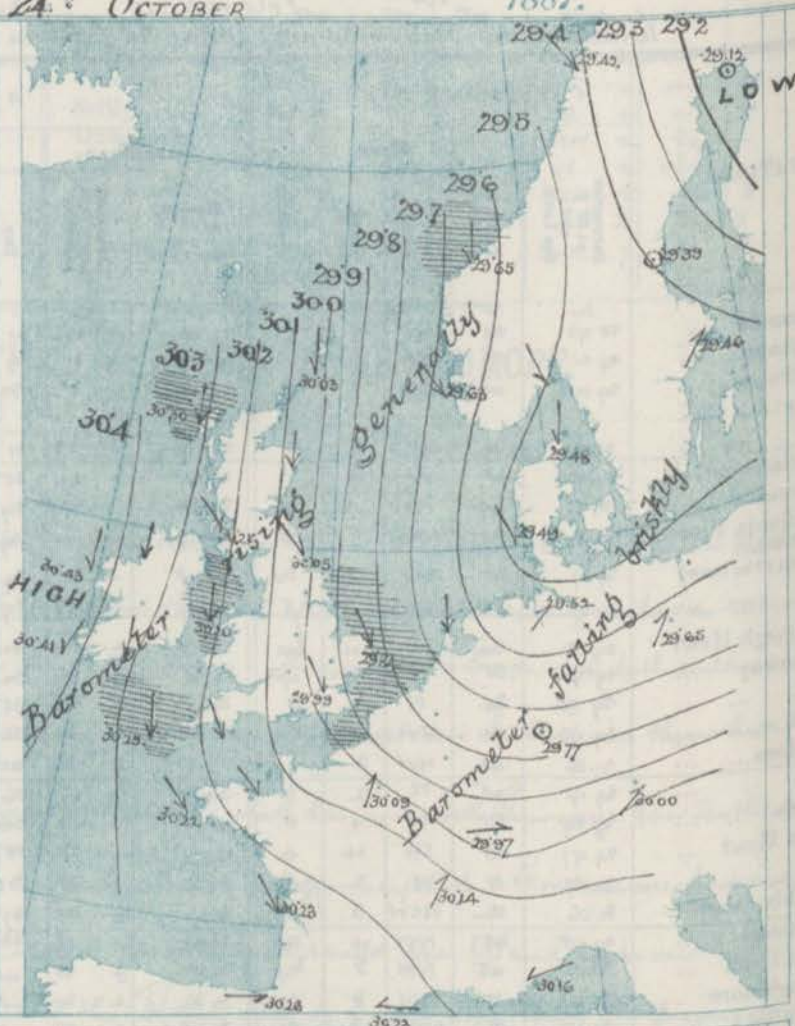
**Sea Disturbance**—where considerable, is shown thus

■ - Rough. ■ - High.

## MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of October  
During the 10 Years 1871—1880.

| STATIONS.      | MEAN READINGS. |
|----------------|----------------|
|                | in.            |
| Sumburgh Head. | 29.685         |
| Stornoway.     | 29.707         |
| Wick.          | 29.715         |
| Nairn.         | 29.738         |
| Aberdeen.      | 29.748         |
| Leith.         | 29.780         |
| Shields.       | 29.821         |
| York.          | 29.860         |
| Ardrossan.     | 29.749         |
| Donaghadee.    | 29.805         |
| Holyhead.      | 29.830         |
| Liverpool.     | 29.848         |
| Valencia.      | 29.842         |
| Roche's Point. | 29.843         |
| Pembroke.      | 29.847         |
| Silly.         | 29.877         |
| Hurst Castle.  | 29.894         |
| Dover.         | 29.907         |
| LONDON.        | 29.902         |
| Oxford.        | 29.801         |
| Cambridge.     | 29.894         |
| Yarmouth.      | 29.889         |



## 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.

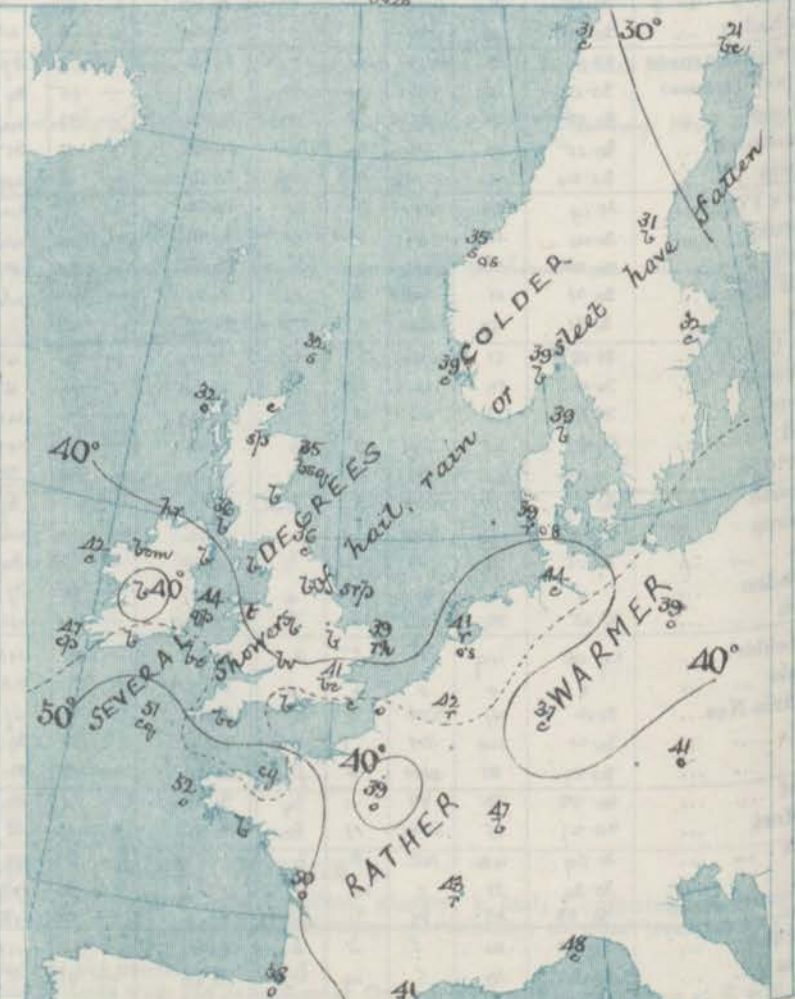
**Rainfall**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of October.

| STATIONS       | TEMPERATURE   |               |           |           | RAINFALL<br>(Inches) |
|----------------|---------------|---------------|-----------|-----------|----------------------|
|                | Daily<br>Max. | Daily<br>Min. | At 8 a.m. | At 8 p.m. |                      |
| Sumburgh Head. | 49.5          | 41.6          | 45.9      | 44.4      | 4.33                 |
| Stornoway.     | 50.2          | 38.8          | 45.1      | 43.9      | 4.94                 |
| Wick.          | 51.8          | 40.0          | 46.0      | 44.3      | 2.94                 |
| Nairn.         | 51.4          | 40.7          | 44.6      | 42.5      | 2.38                 |
| Aberdeen.      | 52.1          | 41.3          | 45.5      | 43.5      | 2.88                 |
| Leith.         | 55.3          | 41.9          | 46.7      | 45.1      | 1.94                 |
| Shields.       | 53.2          | 43.1          | 47.3      | 45.5      | 2.46                 |
| York.          | 55.2          | 40.9          | 46.0      | 44.7      | 2.64                 |
| Ardrossan.     | 53.7          | 43.2          | 47.7      | 45.4      | 4.31                 |
| Donaghadee.    | 53.2          | 43.2          | 47.8      | 46.8      | 3.35                 |
| Holyhead.      | 54.9          | 47.5          | 50.4      | 48.6      | 4.53                 |
| Liverpool.     | 54.0          | 44.9          | 48.0      | 46.2      | 3.62                 |
| Valencia.      | 56.7          | 46.5          | 51.3      | 49.1      | 6.09                 |
| Roche's Point. | 55.6          | 46.4          | 50.4      | 48.6      | 4.17                 |
| Pembroke.      | 55.1          | 48.4          | 51.5      | 49.4      | 4.18                 |
| Silly.         | 56.8          | 50.7          | 53.9      | 52.0      | 3.84                 |
| Hurst Castle.  | 57.7          | 46.8          | 51.5      | 50.5      | 3.24                 |
| Dover.         | 56.2          | 47.8          | 51.5      | 49.4      | 3.28                 |
| LONDON.        | 57.1          | 48.5          | 48.4      | 46.9      | 2.74                 |
| Oxford.        | 55.7          | 42.9          | 47.0      | 45.8      | 2.72                 |
| Cambridge.     | 57.0          | 41.6          | 46.6      | 45.7      | 2.36                 |
| Yarmouth.      | 54.9          | 45.1          | 49.6      | 48.2      | 2.97                 |

NOTE—The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 10 years 1866—85.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.4 in. and upwards in the west of Ireland.  
Lowest, 29.2 in. and less, in the north of Sweden; 29.5 in. and less, over Denmark and the south of Sweden.  
Gradients steep over the North Sea. Barometer rising in the west and north of our Islands, but falling elsewhere.

## TEMPERATURE

Highest, 58° at Biarritz, 54° at Lisbon, 52° at Brest and Lorient, and 51° at Sicily, and Jersey.  
Lowest, 21° at Haparanda, 31° at Bodö-Hemavan, 32° at Stockholm, Lumbough 11½, and Shornouay and 34° at York.  
A rapid fall of the thermometer has taken place over all the more northern parts of our Islands.

## WIND

Light or moderate from S.W. over the Baltic, Germany and the east of France.  
N<sup>2</sup> or NW<sup>2</sup> elsewhere; fresh or strong in force generally, with a moderate gale at Spinn Head.

## WEATHER

Fine in Sweden, the north of Denmark, and the southern parts of our Islands and France.  
Squally and showery elsewhere, with snow or hail at several of our northern and eastern stations.  
[Rain or sleet fell generally yesterday and solar or lunar halos were seen in many parts of England.]

## SEA

Rough at Christiansund, and rather rough on all the more exposed parts of our eastern and western coasts.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The rise of the barometer in the west and north is extending to all parts of the Kingdom, and the strong N<sup>2</sup> winds on our east coasts are therefore likely to subside gradually with some improvement in the weather.

A further fall of temperature is probable over England.

## FORECASTS

for the 24 hours ending at NOON on 25<sup>th</sup> October 1887.

### DISTRICTS.

### FORECASTS.

|   |                  |  |
|---|------------------|--|
| 0 | SCOTLAND NORTH   | N <sup>2</sup> winds, strong with snow squalls; afterwards moderating, with improving weather.       |
| 1 | SCOTLAND EAST    | .....D <sup>2</sup> .....D <sup>2</sup> .....D <sup>2</sup> .....                                    |
| 2 | ENGLAND N.E.     | NW <sup>2</sup> winds, strong to moderate; squally, hail and sleet showers.                          |
| 3 | ENGLAND EAST     | .....D <sup>2</sup> .....D <sup>2</sup> .....D <sup>2</sup> .....                                    |
| 4 | MIDLAND COUNTIES | Same as N <sup>2</sup> 5.  |
| 5 | ENGLAND SOUTH    | NW <sup>2</sup> winds, fresh and gusty; changeable, some showers, possibly snow. Very cold at night. |

### DISTRICTS.

### FORECASTS.

|    |               |   |
|----|---------------|---|
| 6  | SCOTLAND WEST | N <sup>2</sup> winds, moderate; fair generally.                     |
| 7  | ENGLAND N.W.  | N <sup>2</sup> winds, fresh; fair generally, but some showers.      |
| 8  | ENGLAND S.W.  | .....D <sup>2</sup> .....D <sup>2</sup> .....D <sup>2</sup> .....   |
| 9  | IRELAND NORTH | N <sup>2</sup> winds, moderating; fair generally, but some showers. |
| 10 | IRELAND SOUTH | .....D <sup>2</sup> .....D <sup>2</sup> .....D <sup>2</sup> .....   |

### WARNINGS

The warning signals have been lowered in districts 0, 6, 9 and part of 1.

Note.—The South Cone, point downwards (↓) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.  
The North Cone, point upwards (↑) 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.  | Dry. | Wet. | Wind. | Wes. | Sea. |               | Bar.  | Dry. | Wet. | Wind. | Wes. | Sea. |
|-------------------|-------|------|------|-------|------|------|---------------|-------|------|------|-------|------|------|
| Skudesnæs ...     | 29.74 | 4.2  | 2.8  | NW 6  | 0    | 4    | Holyhead ...  | 30.14 | 5.2  | 5.0  | WN 3  | CM   | 2    |
| Sumburgh Head ... |       |      |      |       |      |      | Valencia ...  |       |      |      |       |      |      |
| Stornoway ...     | 29.75 | 4.2  | 4.2  | NW 2  | C    | 4    | Scilly ...    |       |      |      |       |      |      |
| Aberdeen ...      |       |      |      |       |      |      | Dungeness ... |       |      |      |       |      |      |
| Shields ...       |       |      |      |       |      |      | London ...    | 30.19 | 5.2  | 4.7  | W 3   | 6C   | *    |
| Ardrossan ...     |       |      |      |       |      |      | Yarmouth ...  |       |      |      |       |      |      |
| Malin Head ...    | 30.03 | 4.9  | 4.7  | NW 3  | C    | 2    | Jersey ...    | 30.25 | 5.2  | 4.3  | SE 2  | 6C   | 2    |
| Mullaghmore ...   |       |      |      |       |      |      | Rocheport ... | 30.20 | 6.0  | 5.5  | SE 4  | 6    | 2    |
| Belmullet ...     |       |      |      |       |      |      |               |       |      |      |       |      |      |

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

The reports for yesterday (Sunday) morning showed that the anticyclone which lay over England, and the North of France, on Saturday had moved quickly to the southward, its central area being found over Austria. Over the whole of Northern and northwestern Europe the barometer was falling fast, for while a new and large depression had reached Lapland from the Atlantic and was moving eastward, subsidiary disturbances were being developed over the British Isles, and moving south-eastwards towards the North Sea. The 8 a.m. readings varied from 30.5 in and more over Austria to less than 29.0 in over Lapland and the North of Norway, but to little less than 30.2 in at Constantinople. SW gales were felt over the Baltic and Finland, while moderating NW and W winds prevailed over the British Isles and variable light breezes over France and Central Europe. The weather was unsettled, squally and showery in the North, fair elsewhere—bright in the South. Temperature was falling over Central Europe and varied from a little above 60° over the southern part of the Mediterranean and from considerably above 50° over the West of our Islands to several degrees below the freezing point over Northern Russia and the central part of Austria, Germany and France. The highest individual values were 65° at Malta, 63° at San Fernando, 62° at Algiers and Bilbao, and 54° at Valencia (Ireland); the lowest 24° at Archangel and at Clermont (France), 28° at St. Petersburg, Paris and Chasseron, 29° at Riga, Vienna and Prague, 30° at Moscow and 32° at Carlsruhe. Later on the wind became more N. over the British Isles, and temperature fell decidedly, solar and lunar halos were seen in many places, and showery cold rain or sleet, fell as the wind shifted. The change took place in London at about 3 a.m. to day.

## SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 16<sup>th</sup> TO THE 22<sup>nd</sup> OCTOBER 1887.

During the past week the weather over the southern parts of the Kingdom has been fair dry and quiet. In the North however, conditions have been less settled, and although no heavy rain has fallen showers have been somewhat frequent, with an occasional but decided freshening of the wind from the westward. In the course of the week two well defined anticyclones have passed eastwards across the United Kingdom. The first of these appeared over Ireland, on the morning of the 16<sup>th</sup>, and during the ensuing three days the system travelled slowly over our southern districts. On the 20<sup>th</sup> it dispersed over the North of France, but a new anticyclone immediately appeared over our western districts and afterwards moved steadily in an east-south-easterly direction, across England to the Netherlands and Germany. In both instances varying winds and thick local fogs were experienced over our midland and southern districts with sharp frosts at night. Over our extreme Northern coasts and Northern Europe generally, the weather has been influenced by four large depressions, the centres of which have advanced from the westward and travelled across the North of Scandinavia. The first of these was observed on the 16<sup>th</sup> and 17<sup>th</sup> but was not of sufficient depth to occasion any serious increase of wind. The second a deeper system passed over Lapland on the 18<sup>th</sup> and occasioned gales from the W in the West of Norway. The third also a deep disturbance advanced over the same district on the night of the 19<sup>th</sup> and produced strong gales from the W at many of the Scandinavian stations. The fourth appeared over Scandinavia on the 22<sup>nd</sup> and also occasioned W gales in Norway. The main disturbances have in many instances been accompanied by secondary depressions the centres of which have skirted our extreme northern coasts, producing the freshening winds and showery weather mentioned above.

## EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for Tuesday, 25<sup>th</sup> October,

1887.

Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

| STATIONS.                   | + YESTERDAY EVENING.               |                 |       |                   |          |   | 8 A.M. TO DAY.                    |             |      |                                   |       |                   |          |                |             |      | PAST 24 HOURS.      |  |  |
|-----------------------------|------------------------------------|-----------------|-------|-------------------|----------|---|-----------------------------------|-------------|------|-----------------------------------|-------|-------------------|----------|----------------|-------------|------|---------------------|--|--|
|                             | Barometer at 32° F. and Sea Level. | Temp. in Shade. | WIND. |                   | Weather. | Barometer. Reading at 32° F. and Sea Level. | Difference from 8 a.m. yesterday. | SHADE TEMP. |      |                                   | WIND. |                   | Weather. | Sea. (0 to 9.) | SHADE TEMP. |      | Amount of Rainfall. |  |  |
|                             |                                    |                 | Dir.  | Force. (0 to 12.) |          |   |                                   | Dry.        | Wet. | Difference from 8 a.m. yesterday. | Dir.  | Force. (0 to 12.) |          |                | Max.        | Min. |                     |  |  |
| Haparanda                   | 29.55                              | 19              | NW    | 2                 | b        | 29.66                                       | + .11                             | 12          | 11   | -9                                | SW    | 2                 | b        | *              | 27          | ?    | Ina. 0.16           |  |  |
| Hernösand                   | 29.72                              | 20              | NNW   | 4                 | b        | 29.90                                       | + .18                             | 12          | 12   | -7                                | NW    | 2                 | b        | *              | 41          | 27   | —                   |  |  |
| Stockholm                   | 29.68                              | 26              | N     | 2                 | o        | 29.90                                       | + .22                             | 12          | 12   | -5                                | N     | 4                 | bc       | *              | 45          | 3    | —                   |  |  |
| Wisby                       | 29.49                              | 18              | NE    | 6                 | o        | 29.71                                       | + .22                             | 12          | 12   | -4                                | NE    | 3                 | o        | *              | 46          | 27   | 0.04                |  |  |
| Bodö                        | 29.64                              | 21              | NNW   | 6                 | c        | 29.72                                       | + .08                             | 12          | 12   | -4                                | NW    | 3                 | o        | 4              | 22          | 27   | —                   |  |  |
| Christiansund               | 29.96                              | 21              | NNW   | 6                 | m        | 30.11                                       | + .15                             | 12          | 12   | +2                                | N     | 6                 | o        | 5              | 2           | 28   | 0.20                |  |  |
| Skudesnaes                  | 29.97                              | 27              | NNW   | 7                 | b        | 30.23                                       | + .26                             | 12          | 12   | -5                                | NNW   | 4                 | c        | 2              | 44          | ?    | —                   |  |  |
| Christiania Fjord (Fierder) | 29.75                              | 40              | NNE   | 3                 | o        | 30.03                                       | + .28                             | 12          | 12   | -5                                | NNW   | 6                 | b        | 2              | 42          | 24   | —                   |  |  |
| Skagen (The Scaw)           | 29.69                              | 41              | NE    | 6                 | b        | 30.06                                       | + .37                             | 12          | 12   | -2                                | NE    | 6                 | bc       | 5              | 42          | 24   | —                   |  |  |
| Faßö                        | 29.80                              | 28              | NW    | 6                 | b        | 30.10                                       | + .30                             | 12          | 12   | -6                                | NNW   | 5                 | b        | *              | 44          | 22   | 0.20                |  |  |
| Sumburgh Head               | 30.27                              | 22              | N     | 5                 | o        | 30.44                                       | + .17                             | 12          | 12   | +6                                | NNW   | 1                 | o        | 2              | 28          | 28   | 0.01                |  |  |
| Stornoway                   | 30.50                              | 24              | N     | 5                 | o        | 30.54                                       | + .04                             | 12          | 12   | +4                                | N     | 2                 | o        | 2              | 27          | 29   | 0.05                |  |  |
| Wick                        | 30.40                              | 24              | N     | 6                 | c        | 30.50                                       | + .10                             | 12          | 12   | +1                                | N     | 2                 | o        | 1              | 27          | 21   | 0.02                |  |  |
| Nairn                       | 30.46                              | 25              | NNW   | 4                 | c        | 30.53                                       | + .07                             | 12          | 12   | 0                                 | SW    | 1                 | o        | 1              | 27          | 22   | —                   |  |  |
| Aberdeen                    | 30.24                              | 23              | N     | 6                 | o        | 30.51                                       | + .27                             | 12          | 12   | +2                                | NNW   | 2                 | o        | 2              | 28          | 21   | 0.12                |  |  |
| Leith                       | 30.44                              | 25              | N     | 2                 | o        | 30.53                                       | + .09                             | 12          | 12   | +1                                | NW    | 1                 | cm       | *              | 46          | 23   | —                   |  |  |
| Shields                     | 30.29                              | 25              | NW    | 4                 | b        | 30.51                                       | + .22                             | 12          | 12   | 0                                 | NW    | 2                 | cm       | 5              | 42          | 22   | 0.02                |  |  |
| Spurn Head                  | 30.19                              | 26              | NW    | 7                 | o        | 30.45                                       | + .24                             | 12          | 12   | -1                                | NNW   | 5                 | bc       | 6              | 44          | 22   | 0.07                |  |  |
| York                        | 30.27                              | 27              | NNW   | 2                 | b        | 30.54                                       | + .27                             | 12          | 12   | 0                                 | N     | 2                 | c        | *              | 47          | 21   | —                   |  |  |
| Loughborough                | 30.21                              | 28              | NW    | 2                 | bc       | 30.54                                       | + .33                             | 12          | 12   | -2                                | NW    | 2                 | cm       | *              | 45          | 21   | —                   |  |  |
| Ardrossan                   | 30.45                              | 26              | NW    | 2                 | b        | 30.62                                       | + .17                             | 12          | 12   | -4                                | N     | 1                 | b        | 1              | 49          | 20   | —                   |  |  |
| Malin Head                  | 30.51                              | 40              | N     | 4                 | c        | 30.62                                       | + .11                             | 12          | 12   | +2                                | N     | 1                 | o        | 2              | 42          | 40   | —                   |  |  |
| Mullaghmore                 | 30.56                              | 42              | NNE   | 6                 | c        | 30.66                                       | + .10                             | 12          | 12   | -2                                | SE    | 2                 | o        | 2              | 45          | 38   | 0.02                |  |  |
| Belmullet                   | 30.60                              | 44              | NNE   | 4                 | o        | 30.67                                       | + .07                             | 12          | 12   | 0                                 | S     | 2                 | o        | *              | 47          | 40   | —                   |  |  |
| Donaghadee                  | 30.45                              | 42              | NE    | 7                 | c        | 30.68                                       | + .23                             | 12          | 12   | 0                                 | NE    | 6                 | bc       | 4              | 45          | 40   | —                   |  |  |
| Barrow-in-Furness           | 30.26                              | 23              | N     | 4                 | b        | 30.57                                       | + .31                             | 12          | 12   | -2                                | N     | 2                 | bc       | *              | 45          | 22   | —                   |  |  |
| Liverpool (Bidston)         | 30.27                              | 40              | NNW   | 5                 | b        | 30.60                                       | + .33                             | 12          | 12   | -2                                | N     | 2                 | bc       | 2              | 42          | 24   | —                   |  |  |
| Holyhead                    | 30.40                              | 44              | N     | 6                 | bc       | 30.62                                       | + .22                             | 12          | 12   | -2                                | N     | 4                 | b        | 4              | 46          | 40   | 0.01                |  |  |
| Parsonstown                 | 30.26                              | 27              | NW    | 1                 | bc       | 30.70                                       | + .44                             | 12          | 12   | -10                               | N     | 2                 | bc       | *              | 46          | 24   | —                   |  |  |
| Valencia                    | 30.27                              | 44              | NNE   | 2                 | bc       | 30.70                                       | + .43                             | 12          | 12   | -12                               | NW    | 1                 | b        | 1              | 50          | 21   | —                   |  |  |
| Roche's Point               | 30.32                              | 44              | N     | 4                 | b        | 30.64                                       | + .32                             | 12          | 12   | -2                                | N     | 2                 | b        | 2              | 49          | 24   | —                   |  |  |
| Pembroke                    | 30.41                              | 42              | NNE   | 4                 | bc       | 30.63                                       | + .22                             | 12          | 12   | -5                                | ENE   | 2                 | bc       | 1              | 47          | 28   | 0.01                |  |  |
| Scilly                      | 30.41                              | 47              | N     | 6                 | c        | 30.57                                       | + .16                             | 12          | 12   | -6                                | ENE   | 4                 | c        | 4              | 51          | 42   | 0.02                |  |  |
| Prawle Point                | 30.27                              | 41              | N     | 4                 | b        | 30.60                                       | + .33                             | 12          | 12   | -9                                | N     | 5                 | b        | 4              | 54          | 29   | —                   |  |  |
| Jersey                      | 30.22                              | 46              | N     | 4                 | bc       | 30.52                                       | + .30                             | 12          | 12   | -9                                | NNE   | 2                 | bc       | 2              | 52          | 41   | —                   |  |  |
| Hurst Castle                | 30.21                              | 42              | N     | 2                 | b        | 30.55                                       | + .34                             | 12          | 12   | -10                               | NNE   | 4                 | bc       | 2              | 51          | 29   | —                   |  |  |
| Dungeness                   | 30.12                              | 41              | N     | 6                 | c        | 30.25                                       | + .13                             | 12          | 12   | -10                               | NNW   | 5                 | bc       | 4              | 45          | 21   | —                   |  |  |
| London                      | 30.26                              | 40              | N     | 4                 | bc       | 30.48                                       | + .22                             | 12          | 12   | -2                                | NNW   | 2                 | bc       | *              | 44          | 22   | —                   |  |  |
| Oxford                      | 30.25                              | 36              | NNW   | 3                 | b        | 30.54                                       | + .29                             | 12          | 12   | -7                                | NNW   | 2                 | bc       | *              | 42          | 20   | —                   |  |  |
| Cambridge                   | 30.22                              | 27              | N     | 2                 | b        | 30.48                                       | + .26                             | 12          | 12   | -4                                | NW    | 2                 | b        | *              | 45          | 29   | —                   |  |  |
| Yarmouth                    | 30.07                              | 41              | NNW   | 7                 | c        | 30.24                                       | + .17                             | 12          | 12   | +2                                | NNE   | 6                 | cy       | 6              | 44          | 26   | 0.22                |  |  |
| Cuxhaven                    | 29.57                              | 27              | N     | 5                 | o        | 29.99                                       | + .42                             | 12          | 12   | -5                                | NNE   | 6                 | b        | *              | 42          | 27   | 0.04                |  |  |
| Berlin                      | 29.47                              | 29              | W     | 6                 | o        | 29.75                                       | + .28                             | 12          | 12   | 0                                 | NNW   | 4                 | t        | *              | 45          | 24   | 0.24                |  |  |
| Wiesbaden                   | *                                  | *               | *     | *                 | *        | 30.05                                       | + .28                             | 12          | 12   | +2                                | NW    | 1                 | o        | *              | 46          | 27   | 0.20                |  |  |
| Munich                      | 29.22                              | 24              | N     | 4                 | t        | 29.98                                       | + .76                             | 12          | 12   | -9                                | NW    | 4                 | o        | *              | 52          | 21   | 0.16                |  |  |
| The Helder                  | 29.91                              | 45              | N     | 9                 | t        | 30.18                                       | + .27                             | 12          | 12   | -1                                | NNE   | 7                 | o        | 4              | 46          | 29   | 0.20                |  |  |
| Brussels                    | *                                  | *               | *     | *                 | *        | 30.22                                       | + .44                             | 12          | 12   | -5                                | NNW   | 4                 | o        | *              | 42          | 25   | 0.47                |  |  |
| Cape Gris Nez               | 30.06                              | 42              | N     | 9                 | c        | 30.20                                       | + .14                             | 12          | 12   | -7                                | N     | 9                 | o        | 7              | 46          | 29   | —                   |  |  |
| Paris                       | 30.17                              | 29              | NNW   | 4                 | bc       | 30.22                                       | + .05                             | 12          | 12   | -2                                | NNW   | 5                 | bc       | *              | 50          | 25   | 0.02                |  |  |
| Brest                       | 30.42                              | 46              | NW    | 7                 | o        | 30.49                                       | + .07                             | 12          | 12   | -12                               | NE    | 4                 | b        | 2              | 3           | 28   | —                   |  |  |
| Lorient                     | 30.27                              | 42              | NNE   | 5                 | b        | 30.49                                       | + .22                             | 12          | 12   | -10                               | NE    | 5                 | b        | 2              | 54          | 29   | —                   |  |  |
| Rocheport                   | 30.26                              | 51              | NNW   | 5                 | bc       | 30.45                                       | + .19                             | 12          | 12   | -2                                | NNE   | 7                 | b        | 2              | 53          | 24   | —                   |  |  |
| Belfort                     | 30.22                              | 27              | N     | 4                 | o        | 30.02                                       | + .20                             | 12          | 12   | -11                               | NW    | 1                 | o        | *              | 50          | 21   | 0.12                |  |  |
| Lyons                       | 30.14                              | 29              | NW    | 2                 | o        | 30.19                                       | + .05                             | 12          | 12   | -2                                | NNW   | 7                 | o        | *              | 50          | 21   | 0.02                |  |  |
| Nice                        | 29.22                              | 28              | W     | 5                 | bc       | 29.76                                       | + .54                             | 12          | 12   | -1                                | N     | 2                 | o        | 2              | 61          | 42   | —                   |  |  |
| Perpignan                   | 30.15                              | 25              | NW    | 5                 | o        | 30.22                                       | + .07                             | 12          | 12   | 0                                 | NW    | 7                 | b        | *              | 65          | 40   | —                   |  |  |
| Biarritz                    | 30.29                              | 27              | NW    | 5                 | o        | 30.41                                       | + .12                             | 12          | 12   | -12                               | N     | 4                 | c        | 2              | 59          | 27   | —                   |  |  |
| Corunna                     | *                                  | *               | *     | *                 | *        | 30.22                                       | + .04                             | 12          | 12   | +7                                | NE    | 7                 | b        | 5              | 61          | 45   | —                   |  |  |
| Lisbon                      | 30.22                              | 26              | NNW   | 5                 | b        | 30.20                                       | + .02                             | 12          | 12   | +1                                | NNE   | 2                 | b        | 2              | 70          | 24   | —                   |  |  |

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on

Tuesday, 25<sup>th</sup> OCTOBER.

1887.

## BAROMETER, WIND & 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.

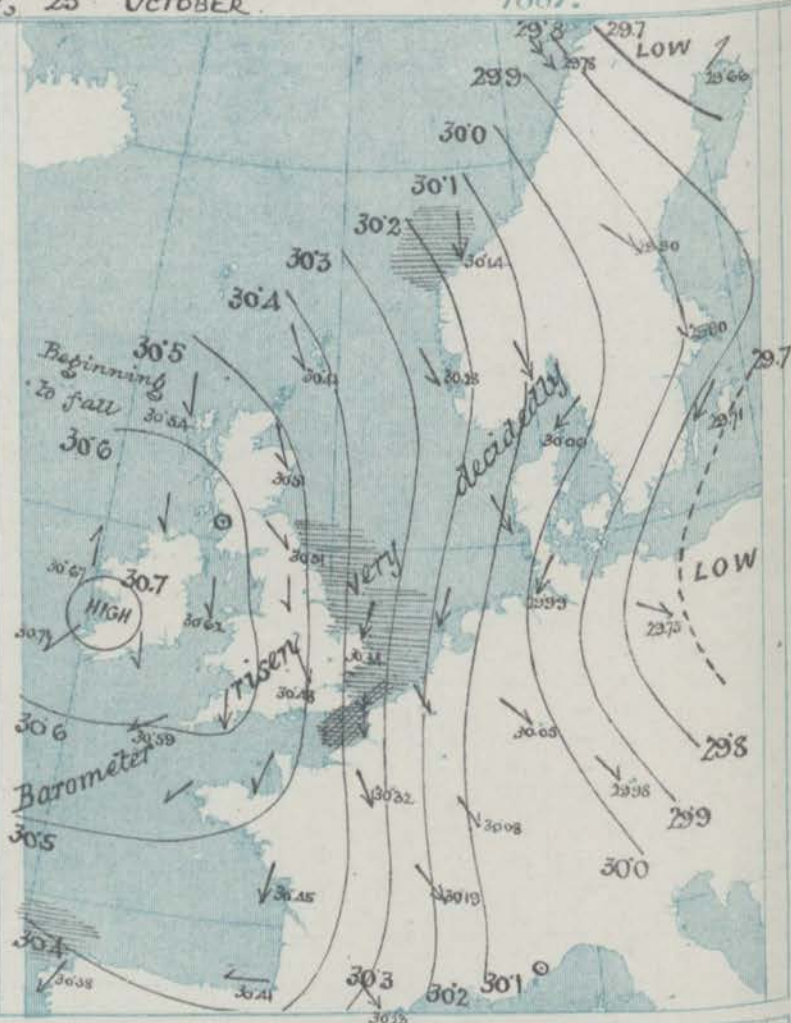
**Sea Disturbance** — where considerable is shown thus

■ = Rough. ■ = High.

## MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of October  
During the 10 Years 1871—1880.

| STATIONS.     | MEAN READINGS. |
|---------------|----------------|
|               | in.            |
| Samburgh Head | 29.685         |
| Stornoway     | 29.707         |
| Wick          | 29.718         |
| Nairn         | 29.738         |
| Aberdeen      | 29.748         |
| Leith         | 29.780         |
| Shields       | 29.821         |
| York          | 29.860         |
| Ardrossan     | 29.749         |
| Donaghadee    | 29.805         |
| Holyhead      | 29.830         |
| Liverpool     | 29.848         |
| Valencia      | 29.842         |
| Rocha's Point | 29.843         |
| Pembroke      | 29.847         |
| Scilly        | 29.877         |
| Hurst Castle  | 29.894         |
| Dover         | 29.907         |
| LONDON        | 29.902         |
| Oxford        | 29.891         |
| Cambridge     | 29.894         |
| Yarmouth      | 29.889         |



## 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<br>(Inches) |
|---------------|--------------|---------------|-----------|------|----------------------|
|               | Daily<br>Max | Daily<br>Min. | At 8 a.m. | Wet. |                      |
| Samburgh Head | 49.5         | 41.6          | 45.9      | 44.4 | 4.33                 |
| Stornoway     | 50.2         | 38.8          | 45.1      | 43.9 | 4.94                 |
| Wick          | 51.8         | 40.0          | 46.0      | 44.3 | 2.94                 |
| Nairn         | 51.4         | 40.7          | 44.6      | 42.5 | 2.28                 |
| Aberdeen      | 52.1         | 41.3          | 45.5      | 43.5 | 2.88                 |
| Leith         | 55.3         | 41.9          | 46.7      | 45.1 | 1.94                 |
| Shields       | 53.2         | 43.1          | 47.3      | 45.5 | 2.46                 |
| York          | 55.2         | 40.9          | 46.0      | 44.7 | 2.64                 |
| Ardrossan     | 53.7         | 43.2          | 47.7      | 45.4 | 4.81                 |
| Donaghadee    | 53.2         | 43.2          | 47.8      | 46.8 | 3.35                 |
| Holyhead      | 54.9         | 47.5          | 50.4      | 48.0 | 4.53                 |
| Liverpool     | 54.0         | 44.9          | 48.0      | 46.2 | 3.62                 |
| Valencia      | 56.7         | 46.5          | 51.3      | 49.1 | 0.09                 |
| Rocha's Point | 55.0         | 46.4          | 50.4      | 48.0 | 4.17                 |
| Pembroke      | 55.1         | 48.4          | 51.5      | 49.4 | 4.13                 |
| Scilly        | 56.8         | 50.7          | 53.9      | 52.0 | 3.84                 |
| Hurst Castle  | 57.7         | 46.8          | 51.5      | 50.5 | 3.24                 |
| Dover         | 56.2         | 47.8          | 51.5      | 49.4 | 3.28                 |
| LONDON        | 57.1         | 48.5          | 48.4      | 46.9 | 2.74                 |
| Oxford        | 55.7         | 42.9          | 47.0      | 45.8 | 2.72                 |
| Cambridge     | 57.0         | 41.6          | 46.6      | 45.7 | 2.36                 |
| Yarmouth      | 54.9         | 45.1          | 49.6      | 48.2 | 2.97                 |

Note — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 10 years 1866—85





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.7 in: and more, over the W. part of Ireland, 30.4 in: and upwards, over the whole of the British Isles, the coast of France, and Bay of Biscay. Lowest, 29.7 in: and less, over the Baltic and also over Lapland; 30.2 in: and less, over the south of Spain. Gradients slight over our Islands, moderate over North Sea. Barometer, rising fast in the east, slightly in west, inclined to fall in the Hebrides.

## TEMPERATURE

Highest, 55° at Lisbon, 47° at Nice, 45° at Seilly, and 42° at Malin Ht. Lowest, 12° at Haparanda, 24° at Helsingfors, 25° at Haparanda, 33° in London and at Oxford and Dungeness. It has fallen very decidedly in most places, but is beginning to recover in the extreme NW. of our Islands.

## WIND

Is still N<sup>W</sup> (NW to NE) over Northern Europe, and blows hard in several parts of Scandinavia, Holland, and NE. of France, but is fresh to light at our western stations. It blew hard from N. over the North Sea yesterday. In the north-west of Ireland a shift to SE. and S. has already taken place.

## WEATHER

Fine over nearly the whole of our Islands, but dull in the extreme northwest and north. Snow and hail squalls are still reported at Spurn Ht., enson in Norway and cold rain at Malin. At all the German stations rain fell yesterday and the sky is still overcast.

## SEA

Rough at the eastern stations and also in the Strait of Dover, moderate in the west, smooth in the Bay of Biscay.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone will now probably move southeastwards, and S<sup>W</sup> winds become general in the west and north. Over England a quiet frosty night is probable, and fog in the morning.

## FORECASTS

for the 24 hours ending at NOON on 26<sup>th</sup> OCT<sup>r</sup> 1887.

### DISTRICTS.

### FORECASTS.

|   |                  |  |
|---|------------------|--|
| 0 | SCOTLAND NORTH   | NW <sup>2</sup> airs, calms and perhaps SW <sup>2</sup> airs later; fine, very cold then milder.   |
| 1 | SCOTLAND EAST    | -----D°-----D°-----D°-----   |
| 2 | ENGLAND N.E.     | N <sup>W</sup> winds, strong to light; cold showers then finer, but very cold.                     |
| 3 | ENGLAND EAST     | -----D°-----D°-----D°-----   |
| 4 | MIDLAND COUNTIES | Same as N°5  |
| 5 | ENGLAND SOUTH    | N <sup>W</sup> winds, followed by calms; very cold, hard frost at night, perhaps foggy in morning. |

### DISTRICTS.

### FORECASTS.

|    |               |   |
|----|---------------|---|
| 6  | SCOTLAND WEST | Wind falling light and shifting S <sup>W</sup> <sup>2</sup> ; very cold tonight, milder tomorrow. |
| 7  | ENGLAND N.W.  | -----D°-----D°-----D°-----  |
| 8  | ENGLAND S.W.  | -----D°-----D°-----D°-----  |
| 9  | IRELAND NORTH | Wind shifting S <sup>W</sup> <sup>2</sup> ; cold at first, milder later and showery in the west.  |
| 10 | IRELAND SOUTH | -----D°-----D°-----D°-----  |

### 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.  | Dry. | Wet. | Wind. | Wes.  | Sea. |               | Bar.  | Dry. | Wet. | Wind. | Wes. | Sea. |
|-------------------|-------|------|------|-------|-------|------|---------------|-------|------|------|-------|------|------|
| Skudesnaes ...    | 29.74 | 41   | 36   | NNW 7 | c     | 4    | Holyhead ...  | 30.32 | 44   | 39   | N 6   | bq   | 6    |
| Sanburgh Head ... | 30.16 | 34   | 33   | N 6   | c     | 5    | Valencia ...  | 30.51 | 50   | 43   | NNE 4 | b    | 4    |
| Stornoway ...     | 30.41 | 34   | 34   | N 5   | o c p | 5    | Scilly ...    | 30.35 | 48   | 44   | N 6   | c    | 5    |
| Aberdeen ...      | 30.13 | 35   | 34   | NNW 6 | sq    | 4    | Dungeness ... | 30.05 | 44   | 39   | N 6   | c    | 4    |
| Shields ...       | 30.17 | 41   | 36   | NNW 7 | c     | 6    | London ...    | 30.14 | 44   | 38   | NW 5  | cq   | *    |
| Ardrossan ...     | 30.32 | 43   | 39   | NW 4  | b     | 3    | Yarmouth ...  | 29.96 | 43   | 40   | NNW 6 | bq   | 6    |
| Malin Head ...    | 30.42 | 40   | 38   | N 4   | b c   | 5    | Jersey ...    | 30.24 | 50   | 42   | NNW 5 | b c  | 4    |
| Mullaghmore ...   | 30.48 | 43   | 40   | N 6   | b c p | 5    | Rochefort ... | 30.03 | 57   | 53   | NW 5  | o    | 2    |
| Belmullet ...     | 30.53 | 46   | 40   | NNE 4 | b c   | *    |               |       |      |      |       |      |      |

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

Yesterday morning's reports showed that the large depression noticed in the extreme north on Sunday had moved eastward to the Kola Peninsula, and that a new and deep secondary system had appeared over Holstein and the Sound, while over the British Isles generally the barometer had risen fast, and very decided gradients for N<sup>W</sup> winds had been formed over the North Sea and Great Britain. Thus, while W<sup>W</sup> winds prevailed over Finland and SW<sup>W</sup> gales over the Baltic Provinces accompanied by dull, squally weather and rain, N<sup>W</sup> breezes had set in over the German Ocean, Scandinavia, and the British Isles, and varied in force from a gale at the more easterly and south-eastern stations to a fresh breeze in the west of Ireland — accompanied in most places by showers of very cold rain, sleet, or snow. The wind was particularly keen and biting. Over Southern and south-eastern Europe various light winds and fine weather were prevalent. Temperatures, which had fallen decidedly over Northwestern Europe, but to a less extent in the southeast and south, ranged from a little above 60° in some parts of Algeria, and from less than 60° over the southern part of the Mediterranean generally to between 32° and 40° over Great Britain and to considerably below the freezing point over Northern Europe, Central Russia and Austro-Hungary. The highest individual readings were 64° at Algiers, 61° at San Fernando, 59° at Brindisi, 58° at Malta, Cagliari, Barcelona, Langunairi and Bismitz, and 54° at Lisbon; the lowest were 21° at Haparanda, 22° at Hermannstadt, 27° at Uleaborg, 31° at Hernosand, 32° at Stockholm, Sanburgh Head, and Stornoway, 34° at York and 35° at Parsonstown.

Later on the N<sup>W</sup> wind blew hard over Holland, and more cold showers fell, but moderated a little over the British Isles, and towards night temperatures became still lower than they were in the morning.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for Wednesday 26<sup>th</sup> October.

1887.

Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

|                            |                                    | + YESTERDAY EVENING. |       |                   |          |                                  | 8 A.M. TO DAY.                    |             |      |                                   |       |                   |          |                |             |      | PAST 24 HOURS.      |  |  |
|----------------------------|------------------------------------|----------------------|-------|-------------------|----------|----------------------------------|-----------------------------------|-------------|------|-----------------------------------|-------|-------------------|----------|----------------|-------------|------|---------------------|--|--|
| STATIONS.                  | 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. |  |  |
|                            |                                    |                      | 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 ..               | 29.72                              | 18                   | 2     | 0                 | 6        | 29.80                            | + .14                             | 12          | 12   | 0                                 | 8     | 2                 | 6        | *              | 20          | 9    | —                   |  |  |
| Hernösand ...              | 29.08                              | 27                   | NW    | 4                 | 6        | 29.98                            | + .08                             | 27          | 26   | +3                                | 2     | 0                 | 0        | +              | 26          | 21   | —                   |  |  |
| Stockholm ...              | 29.07                              | 28                   | NW    | 2                 | 6        | 29.17                            | + .27                             | 27          | 25   | 0                                 | SW    | 2                 | 6        | +              | 26          | 27   | —                   |  |  |
| Wisby ...                  | 29.08                              | 26                   | N     | 8                 | 6        | 29.19                            | + .48                             | 25          | 24   | -4                                | WNW   | 4                 | 6        | +              | 26          | 22   | —                   |  |  |
| Bodö ...                   | 29.29                              | 27                   | NW    | 6                 | 0        | 29.52                            | - .25                             | 28          | 26   | +1                                | E     | 6                 | 0        | 2              | 20          | 23   | —                   |  |  |
| Christiansund...           | 29.04                              | 24                   | WNW   | 6                 | 5        | 29.69                            | - .45                             | 45          | 42   | +13                               | WNW   | 9                 | 4        | 6              | 45          | 32   | 0.08                |  |  |
| Skudesnaes ...             | 29.21                              | 26                   | 2     | 0                 | 0        | 29.14                            | - .14                             | 45          | 40   | +11                               | WNW   | 6                 | 0        | 4              | 45          | 34   | —                   |  |  |
| Christiania Fjord (Farder) | 29.20                              | 26                   | WNW   | 2                 | 6        | 29.08                            | 0 0                               | 42          | 40   | +9                                | WNW   | 6                 | 6        | 2              | 40          | 26   | —                   |  |  |
| Skagen (The Scaw)          | 29.24                              | 37                   | ?     | 1                 | 6        | 29.20                            | + .14                             | 28          | 26   | +2                                | WNW   | 2                 | 0        | 2              | 29          | 22   | —                   |  |  |
| Faro ...                   | 29.24                              | 31                   | SW    | 1                 | 6        | 29.37                            | + .27                             | 40          | 28   | +7                                | WNW   | 2                 | 0        | 2              | 41          | 30   | —                   |  |  |
| BRITISH ISLANDS.           |                                    |                      |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |                |             |      |                     |  |  |
| Sumburgh Head              | 29.20                              | 42                   | W     | 4                 | 0        | 29.26                            | - .55                             | 46          | 42   | +8                                | SW    | 5                 | 0        | 5              | 46          | 38   | 0.08                |  |  |
| Stornoway ...              | 29.22                              | 43                   | SW    | 4                 | 0        | 29.26                            | - .68                             | 47          | 47   | +11                               | SW    | 8                 | 4        | 6              | 47          | 35   | 0.05                |  |  |
| Wick ...                   | 29.25                              | 32                   | W     | 2                 | 6        | 29.91                            | - .59                             | 42          | 41   | +7                                | W     | 4                 | 0        | 1              | 42          | 34   | —                   |  |  |
| Nairn ...                  | 29.28                              | 32                   | 2     | 0                 | 6        | 29.02                            | - .53                             | 42          | 40   | +7                                | WNW   | 2                 | 0        | 2              | 45          | 32   | —                   |  |  |
| Aberdeen ...               | 29.47                              | 35                   | WNW   | 1                 | 6        | 29.11                            | - .40                             | 28          | 25   | +1                                | WNW   | 4                 | 6        | 2              | 42          | 30   | —                   |  |  |
| Leith ...                  | 29.49                              | 39                   | NW    | 1                 | 0        | 29.22                            | - .36                             | 45          | 40   | +8                                | SW    | 5                 | 0        | 2              | 47          | 36   | —                   |  |  |
| Shields ...                | 29.52                              | 39                   | NW    | 2                 | 6        | 29.22                            | - .19                             | 36          | 34   | 0                                 | 8     | 2                 | 0        | 2              | 44          | 27   | —                   |  |  |
| Spurn Head ...             | 29.51                              | 32                   | WNW   | 4                 | 6        | 29.45                            | 0 0                               | 36          | 34   | -1                                | SW    | 4                 | 6        | 2              | 41          | 34   | 0.05                |  |  |
| York ...                   | 29.54                              | 37                   | WNW   | 1                 | 6        | 29.42                            | - .11                             | 32          | 30   | -2                                | 8     | 2                 | 6        | 2              | 44          | 28   | —                   |  |  |
| Loughborough               | 29.58                              | 34                   | WNW   | 1                 | 6        | 29.50                            | - .04                             | 27          | 26   | -7                                | SW    | 1                 | 0        | 2              | 47          | 23   | —                   |  |  |
| GERMANY.                   |                                    |                      |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |                |             |      |                     |  |  |
| Ardrossan ...              | 29.52                              | 43                   | WNW   | 2                 | 0        | 29.20                            | - .42                             | 42          | 46   | +16                               | SW    | 7                 | 0        | 6              | 48          | 31   | —                   |  |  |
| Malin Head ...             | 29.49                              | 44                   | SW    | 2                 | 0        | 29.05                            | - .57                             | 44          | 43   | +2                                | 8     | 6                 | 0        | 4              | 45          | 37   | —                   |  |  |
| Mullaghmore ...            | 29.50                              | 37                   | W     | 2                 | 6        | 29.11                            | - .55                             | 47          | 44   | +7                                | 8     | 7                 | 0        | 5              | 47          | 35   | —                   |  |  |
| Belmullet ...              | 29.51                              | 43                   | SW    | 5                 | 0        | 29.05                            | - .62                             | 51          | 48   | +9                                | SW    | 8                 | 0        | 2              | 51          | 42   | —                   |  |  |
| Donaghadee ...             | 29.57                              | 40                   | SW    | 1                 | 0        | 29.27                            | - .26                             | 45          | 43   | +3                                | SW    | 4                 | 0        | 2              | 48          | 32   | —                   |  |  |
| FRANCE & NETHERLANDS.      |                                    |                      |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |                |             |      |                     |  |  |
| Barrow-in-Furness          | 29.54                              | 39                   | NW    | 2                 | 6        | 29.35                            | - .22                             | 44          | 41   | +9                                | 8     | 6                 | 0        | 2              | 45          | 34   | —                   |  |  |
| Liverpool (Bilston)        | 29.59                              | 38                   | WNW   | 1                 | 6        | 29.42                            | - .17                             | 36          | 32   | 0                                 | 8     | 2                 | 0        | 2              | 42          | 32   | —                   |  |  |
| Holyhead ...               | 29.60                              | 40                   | 2     | 0                 | 6        | 29.38                            | - .24                             | 46          | 42   | +5                                | SW    | 5                 | 0        | 4              | 47          | 37   | —                   |  |  |
| Parsonstown ...            | 29.57                              | 36                   | 2     | 0                 | 6        | 29.27                            | - .42                             | 47          | 42   | +22                               | SW    | 2                 | 0        | 2              | 47          | 24   | —                   |  |  |
| Valencia ...               | 29.54                              | 47                   | SE    | 2                 | 0        | 29.22                            | - .47                             | 52          | 49   | +19                               | 8     | 7                 | 0        | 6              | 53          | 34   | —                   |  |  |
| NETHERLANDS.               |                                    |                      |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |                |             |      |                     |  |  |
| Roche's Point...           | 29.61                              | 46                   | SW    | 2                 | 0        | 29.32                            | - .21                             | 51          | 47   | +15                               | SW    | 6                 | 0        | 4              | 51          | 36   | —                   |  |  |
| Pembroke ...               | 29.60                              | 40                   | NE    | 2                 | 6        | 29.42                            | - .20                             | 47          | 45   | +2                                | SW    | 5                 | 0        | 2              | 47          | 39   | —                   |  |  |
| Scilly ...                 | 29.58                              | 42                   | ENE   | 1                 | 6        | 29.49                            | - .12                             | 47          | 44   | +2                                | SW    | 4                 | 0        | 2              | 48          | 41   | —                   |  |  |
| Prawle Point...            | 29.61                              | 38                   | N     | 4                 | 6        | 29.51                            | - .09                             | 45          | 41   | +8                                | SW    | 2                 | 6        | 2              | 52          | 33   | —                   |  |  |
| Jersey ...                 | 29.57                              | 45                   | NNE   | 2                 | 6        | 29.56                            | + .02                             | 36          | 32   | -6                                | NE    | 1                 | 6        | 1              | 49          | 33   | —                   |  |  |
| FRANCE.                    |                                    |                      |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |                |             |      |                     |  |  |
| Hurst Castle ...           | 29.57                              | 38                   | N     | 2                 | 6        | 29.55                            | 0 0                               | 36          | 35   | +1                                | ENE   | 1                 | 0        | 1              | 46          | 27   | —                   |  |  |
| Dungeness ...              | 29.48                              | 40                   | N     | 2                 | 6        | 29.52                            | + .18                             | 22          | 20   | -1                                | N     | 2                 | 0        | 2              | 46          | 27   | —                   |  |  |
| London ...                 | 29.56                              | 41                   | N     | 2                 | 0        | 29.56                            | + .08                             | 28          | 27   | -5                                | W     | 1                 | 6        | 2              | 45          | 26   | —                   |  |  |
| Oxford ...                 | 29.60                              | 34                   | NW    | 2                 | 6        | 29.55                            | + .01                             | 26          | 25   | -7                                | 2     | 0                 | 6        | 2              | 45          | 26   | —                   |  |  |
| Cambridge ...              | 29.52                              | 38                   | N     | 1                 | 6        | 29.52                            | + .05                             | 29          | 28   | -5                                | 8     | 1                 | 6        | 2              | 46          | 24   | —                   |  |  |
| FRANCE & NETHERLANDS.      |                                    |                      |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |                |             |      |                     |  |  |
| Yarmouth ...               | 29.47                              | 42                   | N     | 4                 | 6        | 29.49                            | + .15                             | 25          | 24   | -7                                | WNW   | 2                 | 6        | 4              | 45          | 34   | 0.01                |  |  |
| Cuxhaven ...               | 29.27                              | 36                   | NNE   | 2                 | 6        | 29.44                            | + .45                             | 35          | 35   | -4                                | SW    | 2                 | 0        | 2              | 39          | 35   | —                   |  |  |
| Berlin ...                 | 29.19                              | 33                   | NW    | 2                 | 6        | 29.49                            | + .74                             | 30          | 28   | -9                                | NW    | 2                 | 6        | 2              | 41          | 27   | —                   |  |  |
| Wiesbaden ...              | *                                  | *                    | *     | *                 | *        | 29.57                            | + .52                             | 28          | 26   | -11                               | 2     | 0                 | 6        | 2              | 45          | 25   | —                   |  |  |
| Munich ...                 | 29.22                              | 31                   | W     | 2                 | 5        | 29.49                            | + .51                             | 25          | 24   | -7                                | NE    | 2                 | 6        | 2              | 36          | 22   | 0.16                |  |  |
| FRANCE & NETHERLANDS.      |                                    |                      |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |                |             |      |                     |  |  |
| The Helder ...             | 29.44                              | 42                   | NE    | 2                 | 0        | 29.47                            | + .29                             | 42          | 40   | +2                                | SW    | 4                 | 0        | 1              | 45          | 39   | 0.04                |  |  |
| Brussels ...               | *                                  | *                    | *     | *                 | *        | 29.55                            | + .23                             | 26          | 35   | -1                                | NW    | 1                 | 0        | 2              | 45          | 33   | 0.04                |  |  |
| Cape Gris Nez...           | 29.47                              | 42                   | NNE   | 2                 | 0        | 29.52                            | + .22                             | 40          | 40   | 0                                 | 8     | 1                 | 0        | 4              | 46          | 39   | 0.28                |  |  |
| Paris ...                  | 29.45                              | 39                   | NW    | 4                 | 0        | 29.56                            | + .24                             | 27          | 28   | -10                               | N     | 1                 | 0        | 2              | 46          | 31   | —                   |  |  |
| Brest ...                  | 29.51                              | 41                   | NE    | 1                 | 6        | 29.52                            | + .04                             | 39          | 36   | -1                                | NE    | 1                 | 0        | 2              | 39          | 36   | —                   |  |  |
| FRANCE & NETHERLANDS.      |                                    |                      |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |                |             |      |                     |  |  |
| Lorient ...                | 29.57                              | 45                   | NE    | 4                 | 6        | 29.56                            | + .07                             | 39          | 37   | -2                                | E     | 2                 | 6        | 2              | 42          | 36   | —                   |  |  |
| Rocheport ...              | 29.51                              | 45                   | NNE   | 7                 | 6        | 29.56                            | + .11                             | 35          | 34   | -7                                | ENE   | 5                 | 6        | 2              | 42          | 31   | —                   |  |  |
| Belfort ...                | 29.25                              | 38                   | N     | 2                 | 0        | 29.45                            | + .37                             | 35          | 34   | -1                                | E     | 3                 | 6        | 2              | 50          | 31   | —                   |  |  |
| Lyons ...                  | 29.21                              | 33                   | NNW   | 5                 | 6        | 29.37                            | + .18                             | 31          | 30   | -4                                | N     | 7                 | 6        | 2              | 38          | 30   | 0.04                |  |  |
| Nice ...                   | 29.28                              | 42                   | NW    | 5                 | 6        | 29.01                            | + .25                             | 44          | 34   | -2                                | E     | 2                 | 6        | 2              | 55          | 39   | —                   |  |  |
| FRANCE & NETHERLANDS.      |                                    |                      |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |                |             |      |                     |  |  |
| Perpignan ...              | 29.22                              | 44                   | NW    | 7                 | 0        | 29.26                            | + .08                             | 40          | 35   | -1                                | NW    | 2                 | 6        | 2              | 54          | 39   | —                   |  |  |
| Biarritz ...               | 29.47                              | 45                   | NE    | 7                 | 6        | 29.46                            | + .05                             | 37          | 32   | -2                                | ENE   | 4                 | 6        | 2              | 48          | 34   | —                   |  |  |
| FRANCE & NETHERLANDS.      |                                    |                      |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |                |             |      |                     |  |  |
| Corunna ...                | *                                  | *                    | *     | *                 | *        | 29.23                            | - .05                             | 44          | 41   | -11                               | ENE   | 2                 | 6        | 2              | 59          | 39   | —                   |  |  |
| Lisbon ...                 | 29.21                              | 60                   | NNE   | 5                 | 6        | 29.20                            | + .10                             | 49          | 40   | -6                                | NNE   | 7                 | 6        | 2              | 62          | 48   | —                   |  |  |

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on

WEDNESDAY 26<sup>TH</sup> OCTOBER.

1887.

## BAROMETER, WIND & 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.

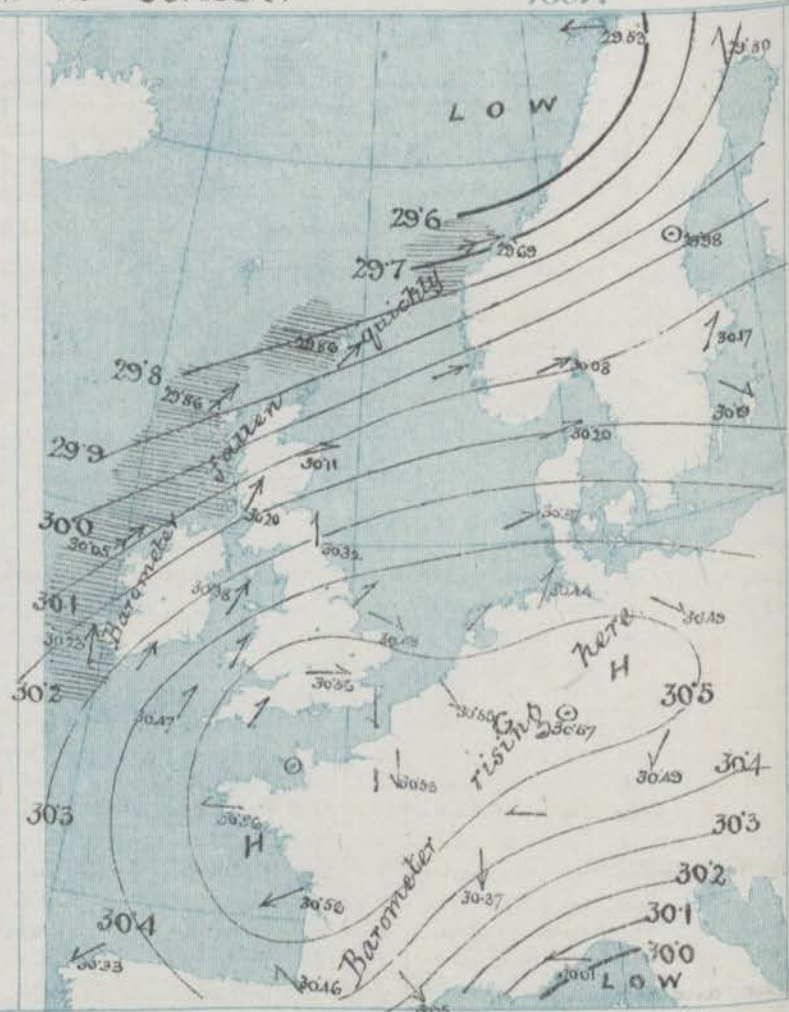
**Sea Disturbance**—where considerable is shown thus

— Rough. — High.

## MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of October.  
 During the 10 Years 1871—1880.

| STATIONS.     | MEAN READINGS. |
|---------------|----------------|
| Sumburgh Head | 29.685         |
| Stornoway     | 29.707         |
| Wick          | 29.718         |
| Nairn         | 29.788         |
| Aberdeen      | 29.748         |
| Leith         | 29.780         |
| Shields       | 29.821         |
| York          | 29.860         |
| Ardrossan     | 29.749         |
| Donaghadee    | 29.805         |
| Holyhead      | 29.880         |
| Liverpool     | 29.848         |
| Valencia      | 29.842         |
| Roche's Point | 29.848         |
| Pembroke      | 29.847         |
| Selly         | 29.877         |
| Hurst Castle  | 29.894         |
| Dover         | 29.907         |
| LONDON        | 29.902         |
| Oxford        | 29.891         |
| Cambridge     | 29.894         |
| Yarmouth      | 29.889         |



## 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.

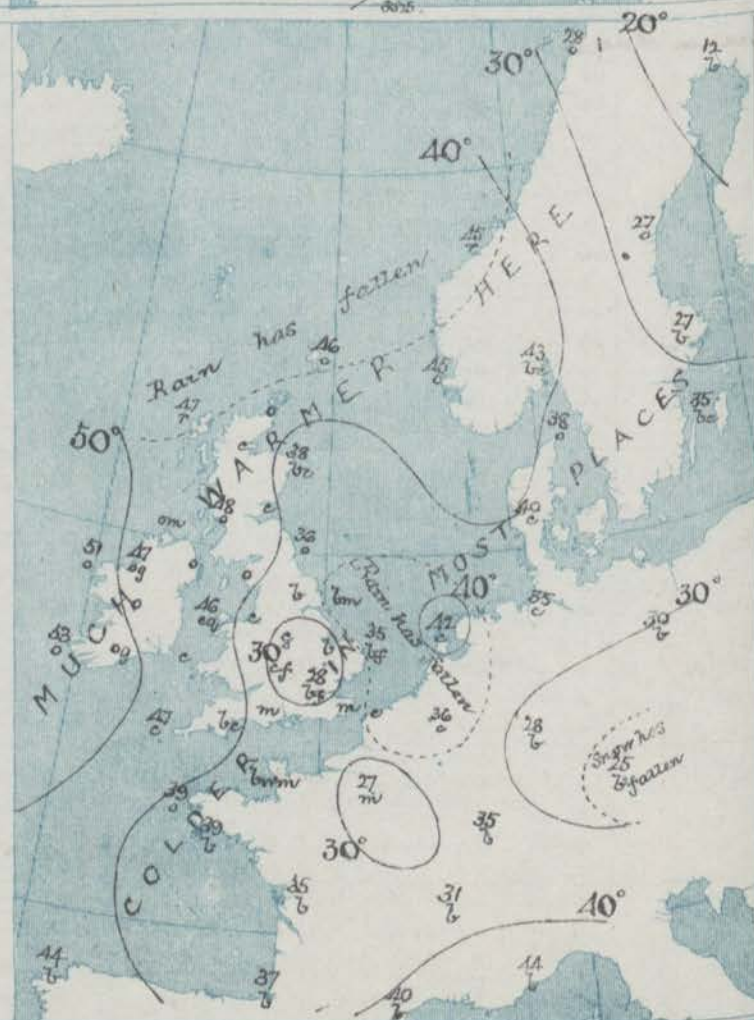
**Rainfall**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of October

| STATIONS      | TEMPERATURE  |               |                  |                  | RAINFALL<br>(Inches) |
|---------------|--------------|---------------|------------------|------------------|----------------------|
|               | Daily<br>Max | Daily<br>Min. | Air & M.<br>Dry. | Air & M.<br>Wet. |                      |
| Sumburgh Head | 49.5         | 41.6          | 45.9             | 44.4             | 4.33                 |
| Stornoway     | 50.2         | 38.8          | 45.1             | 43.9             | 4.94                 |
| Wick          | 51.8         | 40.0          | 46.0             | 44.3             | 2.94                 |
| Nairn         | 51.4         | 40.7          | 44.6             | 42.5             | 2.38                 |
| Aberdeen      | 52.1         | 41.3          | 45.5             | 43.5             | 2.88                 |
| Leith         | 55.3         | 41.9          | 46.7             | 45.1             | 1.94                 |
| Shields       | 53.2         | 43.1          | 47.3             | 45.5             | 2.46                 |
| York          | 55.2         | 40.9          | 46.0             | 44.7             | 2.64                 |
| Ardrossan     | 53.7         | 43.2          | 47.7             | 45.4             | 4.31                 |
| Donaghadee    | 53.2         | 43.2          | 47.8             | 46.8             | 3.35                 |
| Holyhead      | 54.9         | 47.6          | 50.4             | 48.6             | 4.53                 |
| Liverpool     | 54.0         | 44.9          | 48.0             | 46.2             | 3.62                 |
| Valencia      | 56.7         | 46.5          | 51.3             | 49.1             | 6.09                 |
| Roche's Point | 55.6         | 46.4          | 50.4             | 48.6             | 4.17                 |
| Pembroke      | 55.1         | 48.4          | 51.5             | 49.4             | 4.13                 |
| Selly         | 56.8         | 50.7          | 53.9             | 52.0             | 3.84                 |
| Hurst Castle  | 57.7         | 46.8          | 51.5             | 50.5             | 3.24                 |
| Dover         | 56.2         | 47.8          | 51.5             | 49.4             | 3.28                 |
| LONDON        | 57.1         | 43.5          | 48.4             | 46.9             | 2.74                 |
| Oxford        | 55.7         | 42.9          | 47.0             | 45.8             | 2.72                 |
| Cambridge     | 57.0         | 41.6          | 46.8             | 45.7             | 2.36                 |
| Yarmouth      | 54.9         | 45.1          | 49.5             | 48.2             | 2.97                 |

Note—The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 10 years 1866—85





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.5 ins. and more, over Central Germany, the northern half of France, and the south of England.  
lowest, 29.5 ins. over the north-west of Norway, 29.6 ins. at Sumburgh Head, Stormoway, and about 30 ins. or less, over the Gulf of Genoa.  
Gradients steep in north, moderate over England and south of Ireland, very slight over the Channel and France.  
Barometer falling fast north and north-west, and fall spreading southwards; rising south and south-east of France.

## TEMPERATURE

Highest, 53° at Valencia, 51° at Belmullet and Rocher Point, 49° at Lisbon, 47° at Sicily, Mullaghmore and Stormoway.  
lowest, 42° at Haparanda, 25° at Munich, 26° at Oxford, 27° at Stockholm, Loughborough, and Paris, and 28° in London.  
It has fallen fast over Germany, France and Central England, rises rapidly in Ireland.

## WIND

NE to NW gales over the southern part of France - Variable airs in north of France, and English Channel.  
SW to S at all the western and northern stations, and blowing a gale at Christiansund, Stormoway, and Belmullet.  
It is at present only fresh in Halls and over the Irish Sea, but increasing.

## WEATHER

Very fine on the Continent and over the greater part of England, with local fog; dull in the west and north, with rain in places. The general appearance in the latter regions is gloomy and threatening.

## SEA

Rough and rising in the extreme west and north-west, moderate in the Irish Sea and at Falmouth, slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The fall of the barometer in the north is continuing briefly and shows some signs of acceleration at Valencia, while the wind there is inclined to back, and increase in force.

It appears evident that a deep and large depression is approaching the northwestern part of our Islands from the Atlantic, and is likely to cause S or SW gales on all our western and northern coasts shortly. The south cone has therefore been hoisted in those regions.

## FORECASTS

for the 24 hours ending at NOON on 27<sup>th</sup> OCTOBER 1887.

| DISTRICTS.         | FORECASTS.  | DISTRICTS.       | FORECASTS.   |
|--------------------|---|------------------|--|
| 1 SCOTLAND NORTH   | SW winds, strong to a gale; squally, showery.                               | 6 SCOTLAND WEST  | S and SW winds, strong to a gale; squally showery.   |
| 7 SCOTLAND EAST    | SW winds, increasing considerably; fair to showery, milder.                 | 7 ENGLAND N. W.  | -----D°-----D°-----D°-----                           |
| 2 ENGLAND N. E.    | -----D°-----D°-----D°-----  | 8 ENGLAND S. W.  | Same as No 1.  |
| 3 ENGLAND EAST     | SW winds, light to moderate or fresh; fair, milder, becoming unsettled.     | 9 IRELAND NORTH  | S and SW gales and strong breezes; squally, showery. |
| 4 MIDLAND COUNTIES | Same as No 5  | 10 IRELAND SOUTH | -----D°-----D°-----D°-----                           |
| 5 ENGLAND SOUTH    | Variable airs and fine weather, then S or SW, and milder, but less settled. |                  |  |

## WARNINGS

The South cone was hoisted last evening in district 9, and this morning in districts 1 and 6 to 10.

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



# YESTERDAY'S 2 P.M. REPORTS.

|                   | Bar.  | Dry. | Wet. | Wind. | Wes. | Sea. |               | Bar.  | Dry. | Wet. | Wind. | Wes. | Sea. |
|-------------------|-------|------|------|-------|------|------|---------------|-------|------|------|-------|------|------|
| Skudeanaes ...    | 30.52 | 39   | 34   | NNW 4 | C    | 2    | Holyhead ...  | 30.62 | 43   | 33   | N 1   | bc   | 2    |
| Sumburgh Head ... | 30.50 | 41   | 39   | NNW 1 | of   | 2    | Valencia ...  | 30.62 | 46   | 40   | S 2   | bc r | 3    |
| Stornoway ...     | 30.42 | 44   | 42   | SW 2  | a    | 3    | Scilly ...    | 30.59 | 45   | 42   | Z 0   | C    | 3    |
| Aberdeen ...      | 30.50 | 42   | 39   | W 4   | C    | 2    | Dungeness ... | 30.48 | 45   | 39   | N 5   | bc   | 4    |
| Shields ...       | 30.52 | 44   | 39   | N 2   | C    | 5    | London ...    | 30.57 | 42   | 39   | NNE 4 | bc   | *    |
| Ardrossan ...     | 30.58 | 44   | 40   | SW 1  | C    | 1    | Yarmouth ...  | 30.42 | 44   | 41   | N 5   | bcg  | 5    |
| Malin Head ...    | 30.53 | 44   | 40   | SW 2  | C    | 2    | Jersey ...    | 30.75 | 47   | 41   | NNE 3 | bc   | 3    |
| Mullaghmore ...   | 30.61 | 45   | 42   | SW 4  | C    | 2    | Rochefort ... | 30.43 | 49   | 42   | NNE 7 | bc   | 2    |
| Belmullet ...     | 30.62 | 45   | 41   | SW 3  | C    | *    |               |       |      |      |       |      |      |

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

Yesterday morning's reports showed that pressure then varied from between 30.60 and 30.71 ins. over Ireland and the western parts of Great Britain, and from 30.1 ins. and more over Central Russia and Asiatic Turkey, to about 29.6 ins. over Lapland, to about the same values over the Baltic provinces of Russia, and to about 29.7 ins. over the northern parts of Italy and the Adriatic. Thus while very light S.W. and S.W. breezes prevailed over Central Russia, Poland and Austria Hungary, accompanied by rather showery unsettled weather, the wind over northwestern and western Europe was still N.W. and blew strongly over the North Sea, and on the French side of the English Channel, as well as at the southern French and Corsican stations. Over the western

parts of the British Isles, however, the N.W. wind had fallen light and in the extreme northwest of Ireland, a S. breeze had begun to appear. Temperature had fallen in almost all places, and was exceedingly low for the time of year—especially over Central Ireland.

In the extreme northwest of the British Isles, however, it showed some tendency to recover. The readings varied from 60° and upwards over the southern parts of the Mediterranean, and from a little above 40° on our extreme northwest coast, to much below the freezing point over Finland, and to several degrees below the same value over Central Ireland, and some parts of England and France.

The highest individual values were 63° at Algiers, and Palermo, 61° at Malta, 60° at Lesina, 59° at Brindisi, 58° at Cagliari, 57° at Rome, 45° at Scilly and 42° at Malin Head; the lowest 12° at Haparanda, 14° at Uleaborg, 24° at Helsingfors, 25° at Parsonstown (Ireland), 32° at Munich, 33° in London, and 34° at Paris.

Later in the day S.W. and S.W. winds began to spread over Ireland and the North of Scotland from the Atlantic, causing a rapid increase of temperature in those regions, while the anticyclone moved southwards towards the Channel and France.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for Thursday 27<sup>th</sup> October

1887.

Issued by the Meteorological Office, 116, Victoria Street, London. R. H. SCOTT, Secretary.

|                           |       | + YESTERDAY EVENING.               |                 |       |                   |          | 8 A.M. TO DAY.                   |                                   |             |      |                                   |       |                   |          |                |             | PAST 24 HOURS. |                     |  |  |
|---------------------------|-------|------------------------------------|-----------------|-------|-------------------|----------|----------------------------------|-----------------------------------|-------------|------|-----------------------------------|-------|-------------------|----------|----------------|-------------|----------------|---------------------|--|--|
| STATIONS.                 |       | Barometer at 32° F. and Sea Level. | Temp. in Shade. | WIND. |                   | Weather. | BAROMETER.                       |                                   | SHADE TEMP. |      |                                   | WIND. |                   | Weather. | Sea. (0 to 2.) | SHADE TEMP. |                | Amount of Rainfall. |  |  |
|                           |       |                                    |                 | Dir.  | Force. (0 to 12.) |          | Reading at 32° F. and Sea Level. | Difference from 8 a.m. yesterday. | Dry.        | Wet. | Difference from 8 a.m. yesterday. | Dir.  | Force. (0 to 12.) |          |                | Max.        | Min.           |                     |  |  |
| SCANDINAVIA.              |       | In.                                | °               |       |                   |          | In.                              | In.                               | °           | °    | °                                 |       |                   |          |                | °           | °              | In.                 |  |  |
| Haparanda ..              | 29.42 | 32                                 | N               | 4     | S                 | 29.42    | -.63                             | 38                                | 37          | + 26 | SW                                | 4     | bc                | *        | ?              | 10          | 0.24           |                     |  |  |
| Hernösand ..              | 29.62 | 37                                 | S               | 2     | O                 | 29.44    | -.54                             | 41                                | 38          | + 14 | SW                                | 4     | bc                | *        | ?              | 21          | 0.04           |                     |  |  |
| Stockholm ..              | 29.94 | 41                                 | S               | 2     | O                 | 29.80    | -.37                             | 44                                | 41          | + 17 | SW                                | 4     | O                 | *        | ?              | 23          | 0.04           |                     |  |  |
| Wisby ..                  | 30.16 | 43                                 | N               | 8     | bc                | 29.99    | -.20                             | 45                                | 43          | + 10 | WSW                               | 6     | O                 | *        | 46             | 32          | -              |                     |  |  |
| Bodo ..                   | 29.09 | 44                                 | SW              | 9     | T                 | 28.97    | -.56                             | 40                                | 38          | + 12 | WSW                               | 9     | T                 | 7        | 43             | 27          | 1.18           |                     |  |  |
| Christiansund ..          | 29.41 | 47                                 | SSW             | 9     | O                 | 29.42    | -.27                             | 44                                | 43          | - 1  | WSW                               | 8     | T                 | 6        | 48             | 41          | 0.08           |                     |  |  |
| Skudesnaes ..             | 29.90 | 47                                 | SSW             | 8     | T                 | 29.73    | -.41                             | 48                                | 47          | + 3  | S                                 | 8     | T                 | 6        | ?              | 45          | 0.83           |                     |  |  |
| Christiania Fjord (Fæder) | 29.93 | 47                                 | NW              | 4     | O                 | 29.75    | -.33                             | 48                                | 46          | + 5  | SW                                | 8     | O                 | 6        | ?              | ?           | -              |                     |  |  |
| Skagen (The Sound)        | 30.07 | 44                                 | W               | 4     | O                 | 29.91    | -.29                             | 44                                | 44          | + 6  | SW                                | 5     | O                 | 3        | 46             | 37          | 0.08           |                     |  |  |
| Faro ..                   | 30.26 | 47                                 | WSW             | 6     | C                 | 30.13    | -.24                             | 46                                | 45          | + 6  | WSW                               | 6     | O                 | *        | 48             | 39          | -              |                     |  |  |
| BRITISH ISLANDS.          |       |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |                |             |                |                     |  |  |
| Sumburgh Head             | 29.59 | 47                                 | SW              | 6     | T                 | 29.52    | -.34                             | 46                                | 45          | - 1  | Z                                 | O     | O                 | 3        | 50             | 44          | 0.40           |                     |  |  |
| Stornoway ..              | 29.60 | 49                                 | SW              | 8     | T                 | 29.55    | -.31                             | 46                                | 46          | - 1  | Z                                 | O     | O                 | 3        | 52             | 44          | 0.43           |                     |  |  |
| Wick ..                   | 29.72 | 46                                 | SW              | 4     | T                 | 29.54    | -.37                             | 49                                | 49          | + 6  | NW                                | 1     | C                 | 1        | 52             | 41          | 0.17           |                     |  |  |
| Nairn ..                  | 29.73 | 49                                 | SW              | 4     | O                 | 29.58    | -.44                             | 53                                | 50          | + 10 | SW                                | 1     | b                 | 1        | 54             | 42          | -              |                     |  |  |
| Aberdeen ..               | 29.86 | 46                                 | SSW             | 7     | Tq                | 29.63    | -.48                             | 51                                | 50          | + 13 | SSW                               | 3     | C                 | 2        | 51             | 37          | 0.09           |                     |  |  |
| Leith ..                  | 29.94 | 47                                 | SW              | 5     | O                 | 29.70    | -.52                             | 54                                | 51          | + 9  | SW                                | 4     | C                 | *        | 54             | 40          | 0.02           |                     |  |  |
| Shields ..                | 30.11 | 47                                 | SW              | 4     | O                 | 29.80    | -.52                             | 48                                | 46          | + 12 | SSW                               | 4     | C                 | 2        | 50             | 35          | 0.03           |                     |  |  |
| Spurn Head ..             | 30.27 | 44                                 | SSW             | 4     | bc                | 30.02    | -.43                             | 44                                | 43          | + 8  | SSW                               | 5     | cp                | 3        | 46             | 36          | 0.04           |                     |  |  |
| York ..                   | 30.25 | 44                                 | S               | 2     | C                 | 29.97    | -.46                             | 44                                | 43          | + 12 | S                                 | 3     | m                 | *        | 48             | 31          | 0.06           |                     |  |  |
| Loughborough              | 30.32 | 42                                 | SW              | 8     | O                 | 30.07    | -.43                             | 44                                | 43          | + 17 | SSW                               | 3     | T                 | *        | 50             | 27          | 0.10           |                     |  |  |
| GERMANY.                  |       |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |                |             |                |                     |  |  |
| Ardrossan ..              | 29.95 | 49                                 | S               | 8     | T                 | 29.70    | -.50                             | 51                                | 51          | + 3  | SSW                               | 4     | a                 | 4        | 51             | 33          | 0.26           |                     |  |  |
| Malin Head ..             | 29.73 | 47                                 | S               | 7     | OT                | 29.64    | -.41                             | 51                                | 51          | + 7  | SSW                               | 3     | omdp              | 3        | 51             | 39          | 0.20           |                     |  |  |
| Mullaghmore ..            | 29.81 | 50                                 | SSW             | 8     | pg                | 29.68    | -.43                             | 53                                | 52          | + 6  | SSW                               | 3     | O                 | 2        | 54             | 46          | 0.28           |                     |  |  |
| Belmullet ..              | 29.80 | 50                                 | SSW             | 9     | O                 | 29.69    | -.36                             | 49                                | 48          | - 2  | SW                                | 1     | C                 | *        | 54             | 49          | 0.46           |                     |  |  |
| Donaghadee ..             | 30.01 | 47                                 | SW              | 6     | T                 | 29.73    | -.54                             | 51                                | 51          | + 6  | SW                                | 5     | O                 | 3        | 51             | 45          | 0.35           |                     |  |  |
| FRANCE & NETHERLANDS.     |       |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |                |             |                |                     |  |  |
| Barrow-in-Furness         | 30.15 | 49                                 | SSE             | 7     | O                 | 29.88    | -.47                             | 48                                | 43          | + 4  | S                                 | 5     | T                 | *        | 50             | 44          | 0.44           |                     |  |  |
| Liverpool (Bidston)       | 30.22 | 47                                 | SSW             | 3     | O                 | 29.93    | -.50                             | 46                                | 46          | + 10 | SSE                               | 4     | O                 | 3        | 48             | 36          | 0.32           |                     |  |  |
| Holyhead ..               | 30.15 | 51                                 | SSW             | 8     | ogm               | 29.86    | -.52                             | 51                                | 51          | + 5  | SSW                               | 8     | Tq/m              | 7        | 52             | 46          | 0.85           |                     |  |  |
| Parsonstown ..            | 30.02 | 49                                 | SSE             | 3     | T                 | 29.75    | -.52                             | 54                                | 45          | + 7  | Z                                 | O     | O                 | *        | 54             | 45          | 1.15           |                     |  |  |
| Valencia ..               | 30.01 | 53                                 | S               | 8     | Tm                | 29.75    | -.48                             | 57                                | 57          | + 4  | WSW                               | 4     | Tm                | 4        | 57             | 43          | 2.32           |                     |  |  |
| Roche's Point...          | 30.12 | 52                                 | SW              | 7     | T                 | 29.80    | -.53                             | 54                                | 54          | + 3  | SW                                | 4     | T                 | 4        | 54             | 50          | 0.92           |                     |  |  |
| Pembroke ..               | 30.23 | 50                                 | SSW             | 6     | C                 | 29.91    | -.52                             | 51                                | 51          | + 4  | SSW                               | 7     | Tq                | 7        | 52             | 47          | 0.18           |                     |  |  |
| Scilly ..                 | 30.30 | 50                                 | SSW             | 6     | O                 | 30.03    | -.44                             | 51                                | 51          | + 4  | SSW                               | 7     | T                 | 6        | 51             | 46          | 0.08           |                     |  |  |
| Prawle Point ..           | 30.39 | 47                                 | SSW             | 5     | O                 | 30.14    | -.37                             | 48                                | 48          | + 3  | SW                                | 6     | Tu                | 6        | 51             | 45          | 0.05           |                     |  |  |
| Jersey ..                 | 30.45 | 44                                 | SE              | 1     | bm                | 30.25    | -.31                             | 43                                | 38          | + 7  | SSW                               | 4     | cm                | 3        | 52             | 36          | -              |                     |  |  |
| Hurst Castle ..           | 30.41 | 48                                 | SW              | 4     | bc                | 30.19    | -.36                             | 49                                | 46          | + 13 | SSW                               | 6     | C                 | 3        | 51             | 34          | -              |                     |  |  |
| Dungeness ..              | 30.43 | 45                                 | WSW             | 3     | bc                | 30.23    | -.30                             | 45                                | 41          | + 13 | SW                                | 5     | C                 | 4        | 51             | 31          | -              |                     |  |  |
| London ..                 | 30.41 | 44                                 | SW              | 3     | bm                | 30.18    | -.38                             | 45                                | 42          | + 17 | S                                 | 2     | O                 | *        | 50             | 27          | -              |                     |  |  |
| Oxford ..                 | 30.35 | 43                                 | SW              | 3     | O                 | 30.14    | -.41                             | 44                                | 43          | + 18 | S                                 | 3     | Tu                | *        | 49             | 26          | 0.03           |                     |  |  |
| Cambridge ..              | 30.37 | 38                                 | SW              | 1     | b                 | 30.14    | -.39                             | 44                                | 42          | + 15 | S                                 | 2     | T                 | *        | 50             | 27          | -              |                     |  |  |
| Yarmouth ..               | 30.39 | 42                                 | SW              | 2     | b                 | 30.18    | -.31                             | 43                                | 41          | + 8  | SSW                               | 4     | bc                | 4        | 45             | 33          | -              |                     |  |  |
| Cuxhaven ..               | 30.42 | 36                                 | SW              | 2     | b                 | 30.34    | -.10                             | 33                                | 32          | - 2  | SSW                               | 3     | O                 | *        | 41             | 32          | -              |                     |  |  |
| Berlin ..                 | 30.54 | 34                                 | SW              | 2     | b                 | 30.45    | -.10                             | 27                                | 26          | - 3  | S                                 | 1     | bc                | *        | ?              | ?           | -              |                     |  |  |
| Wiesbaden ..              | *     | *                                  | *               | *     | *                 | 30.38    | -.19                             | 30                                | 27          | + 2  | NE                                | 1     | b                 | *        | ?              | 27          | -              |                     |  |  |
| Munich ..                 | 30.48 | 25                                 | E               | 4     | b                 | 30.24    | -.25                             | 24                                | 23          | - 1  | NE                                | 4     | b                 | *        | 32             | 19          | -              |                     |  |  |
| SPAIN.                    |       |                                    |                 |       |                   |          |                                  |                                   |             |      |                                   |       |                   |          |                |             |                |                     |  |  |
| The Helder ..             | 30.41 | 42                                 | S               | 1     | C                 | 30.24    | -.23                             | 37                                | 36          | - 5  | S                                 | 1     | C                 | 1        | 46             | 37          | -              |                     |  |  |
| Brussels ..               | *     | *                                  | *               | *     | *                 | 30.32    | -.23                             | 33                                | 30          | - 3  | S                                 | 1     | C                 | *        | 45             | 32          | -              |                     |  |  |
| Cape Gris Nez...          | 30.47 | 45                                 | SW              | 1     | b                 | 30.28    | -.35                             | 35                                | 31          | - 5  | S                                 | 3     | bc                | 2        | 48             | 36          | -              |                     |  |  |
| Paris ..                  | 30.49 | 34                                 | NE              | 1     | b                 | 30.30    | -.26                             | 24                                | 24          | - 3  | NE                                | 1     | bc                | *        | 45             | 23          | -              |                     |  |  |
| Brest ..                  | 30.40 | 48                                 | S               | 4     | O                 | 30.23    | -.30                             | 50                                | 46          | + 11 | S                                 | 7     | O                 | 5        | 59             | 27          | -              |                     |  |  |
| Lorient ..                | 30.45 | 43                                 | SSE             | 1     | b                 | 30.27    | -.29                             | 44                                | 39          | + 5  | S                                 | 3     | C                 | 3        | 50             | 32          | -              |                     |  |  |
| Rochefort ..              | 30.43 | 44                                 | SE              | 5     | b                 | 30.30    | -.26                             | 41                                | 39          | + 6  | E                                 | 4     | b                 | 2        | 54             | 28          | -              |                     |  |  |
| Belfort ..                | 30.43 | 36                                 | E               | 4     | b                 | 30.19    | -.26                             | 30                                | 29          | - 5  | E                                 | 4     | b                 | *        | 37             | 23          | -              |                     |  |  |
| Lyons ..                  | 30.82 | 33                                 | N               | 5     | b                 | 30.24    | -.13                             | 24                                | 23          | - 7  | W                                 | 1     | ?b                | *        | 40             | 24          | -              |                     |  |  |
| Nice ..                   | 30.00 | 50                                 | E               | 5     | bc                | 29.93    | -.08                             | 56                                | 44          | + 12 | E                                 | 1     | C                 | 3        | 57             | 43          | -              |                     |  |  |
| Perpignan ..              | 30.21 | 44                                 | NW              | 5     | b                 | 30.07    | -.19                             | 41                                | 34          | + 1  | NW                                | 5     | b                 | *        | 49             | 37          | -              |                     |  |  |
| Biarritz ..               | 30.35 | 46                                 | E               | 5     | b                 | 30.24    | -.22                             | 36                                | 32          | - 1  | S                                 | 4     | b                 | O        | 52             | 32          | -              |                     |  |  |
| Corunna ..                | *     | *                                  | *               | *     | *                 | 30.19    | -.14                             | 45                                | 44          | + 1  | E                                 | 3     | C                 | 3        | 63             | 39          | -              |                     |  |  |
| Lisbon ..                 | 30.22 | 57                                 | N               | 6     | b                 | 30.15    | -.15                             | 53                                | 44          | + 4  | N                                 | 7     | b                 | 2        | 63             | ?           | -              |                     |  |  |

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on *Thursday, 27<sup>th</sup> October* 1887.

## BAROMETER, WIND & SEA.

(Explanation of Map)

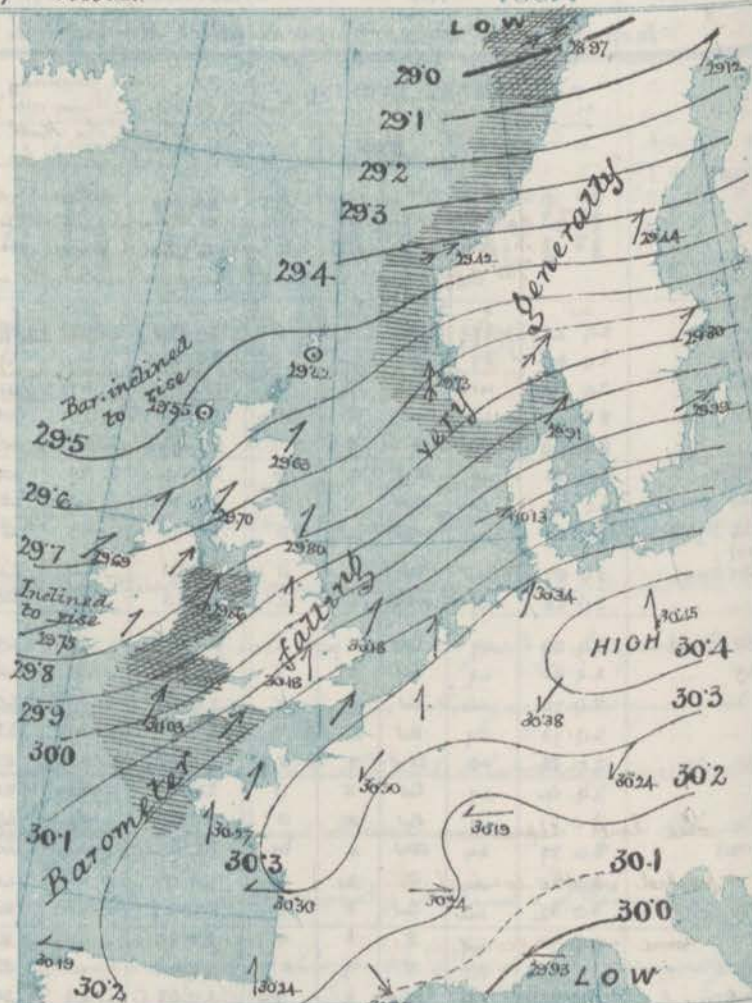
**Barometer** — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.  
**Wind** — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —  
 — = forces above 10; — = forces 8 to 10;  
 — = forces 5 to 7; — = 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 10 Years 1871—1880.

| STATIONS.     | MEAN READINGS. |
|---------------|----------------|
|               | in.            |
| Sumburgh Head | 29.685         |
| Stornoway     | 29.707         |
| Wick          | 29.715         |
| Nairn         | 29.738         |
| Aberdeen      | 29.748         |
| Leith         | 29.780         |
| Shields       | 29.821         |
| York          | 29.860         |
| Ardrossan     | 29.749         |
| Donaghadee    | 29.805         |
| Holyhead      | 29.830         |
| Liverpool     | 29.848         |
| Valencia      | 29.842         |
| Roche's Point | 29.843         |
| Pembroke      | 29.847         |
| Scilly        | 29.877         |
| Hurst Castle  | 29.894         |
| Dover         | 29.907         |
| LONDON        | 29.902         |
| Oxford        | 29.891         |
| Cambridge     | 29.894         |
| Yarmouth      | 29.880         |



## TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

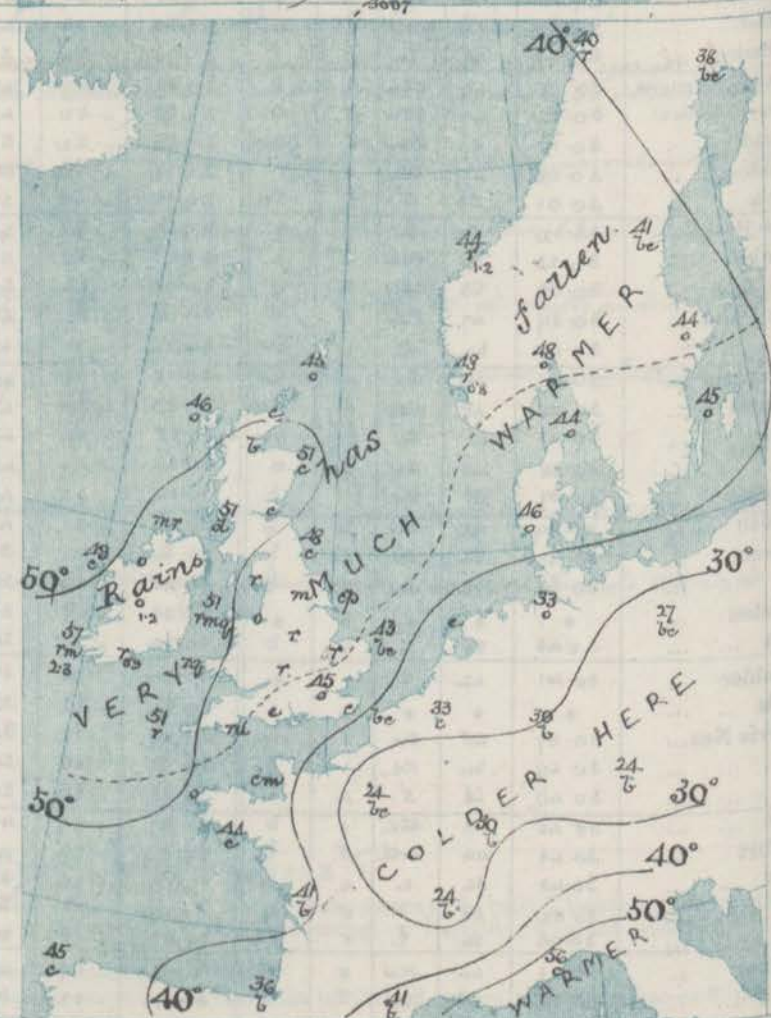
**Temperature** — Isotherms are drawn for each 10° Changes since previous morning are stated in words.  
**Weather** — is shown by Letters of the Beaufort Scale.  
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more,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

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of October.

| STATIONS      | TEMPERATURE  |               |                   |      | RAINFALL<br>(Inches) |
|---------------|--------------|---------------|-------------------|------|----------------------|
|               | Daily<br>Max | Daily<br>Min. | At 8 a.m.<br>Deg. | Wet  |                      |
| Sumburgh Head | 49.5         | 41.6          | 45.9              | 41.4 | 4.33                 |
| Stornoway     | 50.2         | 38.8          | 45.1              | 43.0 | 4.94                 |
| Wick          | 51.8         | 40.0          | 48.0              | 44.3 | 2.94                 |
| Nairn         | 51.4         | 40.7          | 44.8              | 42.5 | 2.38                 |
| Aberdeen      | 52.1         | 41.3          | 45.5              | 43.5 | 2.88                 |
| Leith         | 55.3         | 41.9          | 48.7              | 45.1 | 1.94                 |
| Shields       | 53.2         | 43.1          | 47.3              | 45.5 | 2.46                 |
| York          | 55.2         | 40.9          | 46.0              | 44.7 | 2.64                 |
| Ardrossan     | 53.7         | 43.2          | 47.7              | 45.4 | 4.31                 |
| Donaghadee    | 53.2         | 43.2          | 47.8              | 46.8 | 3.35                 |
| Holyhead      | 54.9         | 47.5          | 50.4              | 48.6 | 4.53                 |
| Liverpool     | 54.0         | 44.9          | 48.0              | 46.2 | 3.62                 |
| Valencia      | 56.7         | 46.5          | 51.3              | 49.1 | 6.09                 |
| Roche's Point | 55.6         | 46.4          | 50.4              | 48.6 | 4.17                 |
| Pembroke      | 55.1         | 48.4          | 51.5              | 49.4 | 4.13                 |
| Scilly        | 66.8         | 50.7          | 53.9              | 52.0 | 3.84                 |
| Hurst Castle  | 57.7         | 46.8          | 51.5              | 50.5 | 3.24                 |
| Dover         | 56.2         | 47.8          | 51.5              | 49.4 | 3.28                 |
| LONDON        | 57.1         | 43.5          | 48.4              | 46.9 | 2.74                 |
| Oxford        | 55.7         | 42.9          | 47.0              | 45.8 | 2.72                 |
| Cambridge     | 57.0         | 41.6          | 46.6              | 45.7 | 2.36                 |
| Yarmouth      | 54.9         | 45.1          | 49.5              | 45.2 | 2.97                 |

Note — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 10 years 1866—85.





# GENERAL SITUATION AT 8 A.M.

|             |   |
|-------------|---|
| PRESSURE    | Highest, 30.30 to 30.45 ins. over North Germany and the northern parts of Central France.<br>Lowest, 29.97 ins. at Rode, 29.0 to 29.4 ins. over all the northern parts of Scandinavia, 29.5 ins. off the Hebrides, 29.5 ins. and less over the Gulf of Genoa.<br>Gradients rather steep over England and the North Sea, moderate in most other places, slight over Germany.<br>Barometer still falling, except perhaps in the far west. |
| TEMPERATURE | Highest, 57° at Valencia, 56° at Aix, 54° at Rochester, Caronsfort and Leth, 53° at Larn.<br>Lowest, 24° at Paris, Lyons, and Munich, 27° at Berlin, 30° at Usteraden and Belfast.<br>The rise of temperature over England since yesterday has been very considerable.<br>The difference between the temperatures at the inland and some of the coast stations of France and Germany is very large.                                     |
| WIND        | SW <sup>ly</sup> (S to W) over the British Isles, North Sea and Scandinavia.<br>Gales still prevail at some of our western stations and in Norway, but in Ireland and Scotland the wind has lulled.<br>In the south of France and over Spain moderate E. breezes prevail.   |
| WEATHER     | Quell and unsettled over the British Isles and North Sea, with rain in several places, the fall over some parts of Ireland being very large.<br>In Germany and France the weather is fine and bright.   |
| SEA         | High in St. George's Channel, rough at the mouth of the English Channel and off the west of Norway, moderate in the extreme west and north-west, slight over the Bay of Biscay and the North Sea.   |

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT



The large depression noticed in the north-west yesterday is passing away to the northward and causing the SW<sup>ly</sup> gales now reported on the coast of Norway.

Some new secondary systems are now advancing over the United Kingdom from the W<sup>nd</sup> causing very rainy weather in the west, and moderate to fresh SSW<sup>ly</sup> gales over the Irish Sea. This rainy weather will probably spread to the east and north of England later.  
In the rear of these disturbances the wind is lulling and veering. Changeable unsettled conditions are probable over the United Kingdom generally.

## FORECASTS

For the 24 hours ending at NOON on 28<sup>th</sup> OCT 1887.

| DISTRICTS.         | FORECASTS.  | DISTRICTS.       | FORECASTS.   |
|--------------------|---|------------------|--|
| 0 SCOTLAND NORTH   | Varying light breezes; changeable, rain at times, colder.   | 6 SCOTLAND WEST  | Varying W <sup>ly</sup> breezes, moderate; rain at times, colder.        |
| 7 SCOTLAND EAST    | ----- D° ----- D° ----- D° -----  | 7 ENGLAND N. W.  | ----- D° ----- D° ----- D° -----   |
| 2 ENGLAND N. E.    | SW <sup>ly</sup> winds, fresh to light; cloudy, showery.  | 8 ENGLAND S. W.  | Wind veering to W. or NW. and falling; rainy, colder.                    |
| 3 ENGLAND EAST     | Same as No 5  | 9 IRELAND NORTH  | ----- D° ----- D° ----- D° -----   |
| 4 MIDLAND COUNTIES | Same as No 2  | 10 IRELAND SOUTH | ----- D° ----- D° ----- D° -----   |
| 5 ENGLAND SOUTH    | SW <sup>ly</sup> winds, fresh or strong, rainy; then W <sup>ly</sup> or NW <sup>ly</sup> , light; fair, cold. | WARNINGS         | The south cone has been lowered this morning except in districts 7 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.  | Dry. | Wet. | Wind. | Wes. | Sea. |               | Bar.  | Dry. | Wet. | Wind.  | Wes.  | Sea. |
|-------------------|-------|------|------|-------|------|------|---------------|-------|------|------|--------|-------|------|
| Skudesnaes ...    | 30.02 | 46   | 42   | SEW 8 | 0    | 5    | Holyhead ...  | 30.24 | 50   | 45   | SEW 7  | 0 q m | 5    |
| Sumburgh Head ... | 29.66 | 46   | 46   | SW 6  | 7    | 5    | Valencia ...  | 30.08 | 52   | 51   | S 8    | 7 m   | 6    |
| Stornoway ...     | 29.66 | 49   | 49   | SW 8  | 7    | 6    | Scilly ...    | 30.36 | 50   | 36   | SEW 6  | 0     | 5    |
| Aberdeen ...      | 29.93 | 46   | 43   | SEW 6 | 0    | 2    | Dungeness ... | 30.44 | 49   | 43   | WSEW 2 | 6     | 1    |
| Shields ...       | 30.19 | 46   | 42   | SW 4  | 0    | 3    | London ...    | 30.45 | 49   | 41   | SW 4   | bm    | *    |
| Ardrossan ...     | 30.02 | 50   | 48   | SEW 8 | 0    | 7    | Yarmouth ...  | 30.43 | 45   | 41   | SW 3   | 6     | 4    |
| Malin Head ...    | 29.89 | 47   | 46   | SEW 5 | 0    | 3    | Jersey ...    | 30.48 | 50   | 45   | SE 3   | 6     | 3    |
| Mullaghmore ...   | 29.90 | 49   | 47   | S 8   | 7    | 6    | Rochefort ... | 30.49 | 53   | 45   | ESE 5  | 6     | 2    |
| Belmullet ...     | 29.87 | 51   | 50   | SW 9  | 7    | *    |               |       |      |      |        |       |      |

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

The reports for yesterday morning showed that pressure was highest 30.5 ins. and upwards, in a large anticyclone lying over the Netherlands, the south of England and the north of France, and lowest 29.6 ins. and less, in a depression lying off the northwest of Norway. Other depressions were, however, lying respectively over the White Sea and over Italy, while a rapid fall of the barometer which had set in on our extreme western and northern coasts seemed to indicate the approach of a deep disturbance from the Atlantic. With these conditions the winds over Northwestern Europe were chiefly SW<sup>ly</sup>, and on the west coast of Ireland and Scotland they were increasing fast, but on the shores of the Baltic they were light from the NW<sup>ly</sup>, and in the south of France strong from the same quarter, while in the west of France and over Spain NE<sup>ly</sup> or N<sup>ly</sup> breezes were reported. The weather was dull and unsettled on the west coast of our Islands and Norway, with rain at Christianund and Stornoway, but in other parts of Europe conditions were mostly fine. Temperature had risen considerably in the west and north of our Islands as well as in the south of Russia, and slightly in Scandinavia, but fallen elsewhere; readings ranged from 50° and upwards over Italy, Algeria, and the southwest of our Islands to 15° or less, in Lapland. A large area of frost was, however, shown over the whole of Central Europe, and a smaller one over Central Spain. The highest individual readings were 70° at Cagliari, 61° at Brindisi and Malta, 60° at Palermo, 55° at Nemours and Oran, 54° at Algiers and 53° at Valencia; the lowest were 12° at Haparanda, 14° at Uleaborg, 21° at Kuopio and Helsingfors, 24° at Carrel, 25° at Munich and 26° at Oxford.

In the course of the day a large and rather deep depression appeared off our extreme northwest coasts occasionally S<sup>ly</sup> and SW<sup>ly</sup> gales and rain at all our western and northwestern stations, and a considerable rise of temperature in the east and south.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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



# DAILY WEATHER REPORT.

for Friday 28<sup>th</sup> October

1887.

Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

| STATIONS.             | + YESTERDAY EVENING.                        |                    |       |                      |          | 8 A.M. TO DAY.                            |   |             |      |   |       |                      |          |                   |             | PAST 24 HOURS. |                           |  |
|-----------------------|---|--------------------|-------|----------------------|----------|---|---|-------------|------|---|-------|----------------------|----------|-------------------|-------------|----------------|---------------------------|--|
|                       | Barometer<br>at 32° F.<br>and<br>Sea Level. | Temp. in<br>Shade. | WIND. |                      | Weather. | BAROMETER.                                |   | SHADE TEMP. |      |   | WIND. |                      | Weather. | Sea.<br>(0 to 9.) | SHADE TEMP. |                | Amount<br>of<br>Rainfall. |  |
|                       |   |                    | Dir.  | Force.<br>(0 to 12.) |          | Reading<br>at 32° F.<br>and<br>Sea Level. | Difference<br>from 8 a.m.<br>yesterday. | Dry.        | Wet. | Difference<br>from 8 a.m.<br>yesterday. | Dir.  | Force.<br>(0 to 12.) |          |                   | Max.        | Min.           |                           |  |
| SCANDINAVIA.          |   |                    |       |                      |          |   |   |             |      |   |       |                      |          |                   |             |                |                           |  |
| Haparanda ..          | Inc.  | 39                 | SW    | 4                    | b        | Inc.                                      | Inc.                                    | 30          | 28   | - 2                                     | W     | 2                    | b        | *                 | 41          | ?              | Inc.                      |  |
| Hernösand ...         | 29.13                                       | 37                 | SW    | 2                    | bc       | 29.34                                     | + .22                                   | 31          | 30   | - 4                                     | W     | 0                    | c        | *                 | 50          | 36             | -                         |  |
| Stockholm ...         | 29.10                                       | 47                 | SW    | 4                    | o        | 29.49                                     | + .05                                   | 43          | 41   | - 1                                     | SSW   | 4                    | o        | *                 | 48          | 34             | -                         |  |
| Wisby ...             | 29.25                                       |                    |       |                      |          | 29.73                                     | - .07                                   |             |      |   |       |                      |          | *                 |             |                |                           |  |
| Bodö ...              |   |                    |       |                      |          |   |   |             |      |   |       |                      |          | *                 |             |                |                           |  |
| Christiansund...      | 29.14                                       | 41                 | WSW   | 9                    | r        | 29.34                                     | + .37                                   | 39          | 38   | - 1                                     | SW    | 5                    | r        | 3                 | 41          | 37             | 0.08                      |  |
| Skudesnaes ...        | 29.48                                       | 42                 | SSW   | 2                    | f        | 29.19                                     | - .23                                   | 43          | 42   | - 1                                     | E     | 2                    | c        | 5                 | ?           | 39             | 0.28                      |  |
| Christiania Fjord     | 29.61                                       | 48                 | SSW   | 6                    | r        | 29.39                                     | - .34                                   | 49          | 48   | + 1                                     | S     | 8                    | r        | 6                 | 50          | 48             | -                         |  |
| (Farder)              | 29.65                                       | 49                 | SW    | 8                    | bc       | 29.56                                     | - .19                                   | 47          | 46   | - 1                                     | SSW   | 8                    | r        | 6                 | 50          | 46             | 0.04                      |  |
| Skagen (The Scaw)     | 29.79                                       | 46                 | WSW   | 5                    | o        | 29.67                                     | - .24                                   | 40          | 40   | - 4                                     | SW    | 5                    | o        | 4                 | 46          | 39             | 0.04                      |  |
| Fanö ...              | 29.92                                       | 44                 | SSW   | 6                    | o        | 29.72                                     | - .41                                   | 43          | 41   | - 8                                     | S     | 4                    | c        | *                 | 48          | 43             | -                         |  |
| BRITISH ISLANDS.      |   |                    |       |                      |          |   |   |             |      |   |       |                      |          |                   |             |                |                           |  |
| Sumburgh Head         | 29.40                                       | 47                 | W     | 0                    | o        | 29.15                                     | - .37                                   | 47          | 45   | + 2                                     | SW    | 4                    | bc       | 4                 | 50          | 45             | 0.01                      |  |
| Stornoway ...         | 29.34                                       | 50                 | SW    | 6                    | ru       | 29.18                                     | - .37                                   | 45          | 45   | - 1                                     | SW    | 5                    | c        | 4                 | 50          | 42             | 0.26                      |  |
| Wick ...              | 29.41                                       | 49                 | W     | 0                    | c        | 29.23                                     | - .31                                   | 44          | 43   | - 5                                     | SW    | 2                    | bc       | 0                 | 50          | 43             | -                         |  |
| Nairn ...             | 29.44                                       | 53                 | SW    | 1                    | bc       | 29.27                                     | - .31                                   | 46          | 44   | - 7                                     | SW    | 3                    | b        | 2                 | 59          | 45             | -                         |  |
| Aberdeen...           | 29.48                                       | 53                 | S     | 3                    | o        | 29.34                                     | - .29                                   | 47          | 45   | - 4                                     | SW    | 3                    | b        | 1                 | 57          | 46             | -                         |  |
| Leith ...             | 29.53                                       | 55                 | W     | 3                    | c        | 29.43                                     | - .27                                   | 49          | 46   | - 5                                     | W     | 4                    | b        | *                 | 60          | 47             | -                         |  |
| Shields ...           | 29.63                                       | 51                 | S     | 2                    | o        | 29.53                                     | - .27                                   | 50          | 47   | + 2                                     | WSW   | 2                    | bc       | 2                 | 54          | 47             | -                         |  |
| Spurn Head ...        | 29.81                                       | 45                 | S     | 5                    | o        | 29.64                                     | - .38                                   | 49          | 48   | + 5                                     | W     | 2                    | cm       | 3                 | 49          | 43             | 0.03                      |  |
| York ...              | 29.74                                       | 48                 | S     | 5                    | o        | 29.63                                     | - .34                                   | 50          | 48   | + 6                                     | SSW   | 1                    | c        | *                 | 52          | 43             | 0.04                      |  |
| Loughborough          | 29.85                                       | 47                 | SSW   | 3                    | r        | 29.70                                     | - .37                                   | 49          | 48   | + 5                                     | WSW   | 1                    | bc       | *                 | 52          | 43             | 0.23                      |  |
| GERMANY.              |   |                    |       |                      |          |   |   |             |      |   |       |                      |          |                   |             |                |                           |  |
| Ardrossan ...         | 29.56                                       | 42                 | SSW   | 2                    | adm      | 29.47                                     | - .23                                   | 49          | 47   | - 2                                     | WSW   | 5                    | b        | 4                 | 52          | 33             | -                         |  |
| Malin Head ...        | 29.54                                       | 51                 | SW    | 3                    | om       | 29.45                                     | - .19                                   | 45          | 44   | - 6                                     | W     | 4                    | bcgr     | 4                 | 52          | 45             | 0.06                      |  |
| Mullaghmore ...       | 29.60                                       | 52                 | SSW   | 4                    | o        | 29.53                                     | - .15                                   | 48          | 45   | - 5                                     | SW    | 5                    | cp       | 4                 | 54          | 46             | 0.08                      |  |
| Belmullet ...         | 29.64                                       | 53                 | WSW   | 1                    | o        | 29.55                                     | - .14                                   | 47          | 43   | - 2                                     | WSW   | 5                    | b        | *                 | 54          | 46             | 0.06                      |  |
| Donaghadee ...        | 29.60                                       | 54                 | SW    | 3                    | c        | 29.55                                     | - .18                                   | 45          | 44   | - 6                                     | SSW   | 3                    | bc       | 1                 | 56          | 44             | -                         |  |
| FRANCE & NETHERLANDS. |   |                    |       |                      |          |   |   |             |      |   |       |                      |          |                   |             |                |                           |  |
| Barrow-in-Furness     | 29.68                                       | 49                 | S     | 4                    | r        | 29.59                                     | - .29                                   | 50          | 49   | + 2                                     | WSW   | 5                    | bc       | *                 | 52          | 47             | 0.91                      |  |
| Liverpool (Bidston)   | 29.70                                       | 53                 | SSW   | 3                    | o        | 29.65                                     | - .28                                   | 49          | 46   | + 3                                     | WSW   | 4                    | b        | 3                 | 54          | 46             | 0.24                      |  |
| Holyhead ...          | 29.67                                       | 54                 | SSW   | 6                    | rmq      | 29.65                                     | - .21                                   | 51          | 49   | 0                                       | SW    | 4                    | bcq      | 4                 | 54          | 50             | 0.56                      |  |
| Parsonstown ...       | 29.68                                       | 51                 | SW    | 1                    | c        | 29.67                                     | - .08                                   | 47          | 45   | - 7                                     | SSW   | 2                    | b        | *                 | 58          | 46             | -                         |  |
| Valencia ...          | 29.74                                       | 54                 | WSW   | 2                    | omd      | 29.75                                     | 0.06                                    | 51          | 47   | - 6                                     | W     | 4                    | b        | 4                 | 57          | 49             | 0.04                      |  |
| Roche's Point...      | 29.68                                       | 56                 | WSW   | 2                    | c        | 29.75                                     | - .05                                   | 48          | 46   | - 6                                     | WSW   | 3                    | b        | 4                 | 56          | 46             | 0.08                      |  |
| Pembroke ...          | 29.71                                       | 52                 | S     | 7                    | r        | 29.75                                     | - .16                                   | 52          | 51   | + 1                                     | W     | 4                    | bc       | 5                 | 54          | 51             | 0.16                      |  |
| Scilly ...            | 29.83                                       | 53                 | SW    | 7                    | r        | 29.84                                     | - .19                                   | 54          | 52   | + 3                                     | W     | 4                    | bc       | 4                 | 54          | 50             | 0.63                      |  |
| Prawle Point ...      | 29.93                                       | 50                 | SSW   | 6                    | r        | 29.81                                     | - .33                                   | 51          | 50   | + 3                                     | WSW   | 3                    | cp       | 3                 | 54          | 43             | 0.48                      |  |
| Jersey ...            | 30.06                                       | 47                 | SE    | 3                    | OTm      | 29.85                                     | - .40                                   | 54          | 52   | + 11                                    | WSW   | 3                    | cq       | 3                 | 54          | 42             | 0.80                      |  |
| ITALY.                |   |                    |       |                      |          |   |   |             |      |   |       |                      |          |                   |             |                |                           |  |
| Hurst Castle ...      | 29.98                                       | 48                 | SW    | 6                    | r        | 29.77                                     | - .42                                   | 52          | 52   | + 3                                     | WSW   | 5                    | bc       | 4                 | 53          | 44             | 0.25                      |  |
| Dungeness ...         | 30.03                                       | 46                 | SW    | 4                    | o        | 29.74                                     | - .49                                   | 48          | 48   | + 3                                     | SW    | 6                    | r        | 4                 | 48          | 44             | 0.15                      |  |
| London ...            | 29.98                                       | 46                 | SW    | 3                    | opa      | 29.74                                     | - .44                                   | 51          | 50   | + 6                                     | SSW   | 1                    | opa      | *                 | 51          | 44             | 0.10                      |  |
| Oxford ...            | 29.87                                       | 47                 | S     | 4                    | r        | 29.74                                     | - .40                                   | 52          | 51   | + 8                                     | W     | 1                    | o        | *                 | 52          | 44             | 0.30                      |  |
| Cambridge ...         | 29.93                                       | 46                 | S     | 2                    | o        | 29.70                                     | - .44                                   | 51          | 50   | + 7                                     | SW    | 1                    | c        | *                 | 51          | 42             | 0.08                      |  |
| Yarmouth ...          | 29.96                                       | 44                 | SSW   | 3                    | r        | 29.71                                     | - .47                                   | 46          | 46   | + 3                                     | SW    | 4                    | od       | 4                 | 48          | 41             | 0.14                      |  |
| SPAIN.                |   |                    |       |                      |          |   |   |             |      |   |       |                      |          |                   |             |                |                           |  |
| Cuxhaven ...          | 30.11                                       | 36                 | S     | 2                    | b        | 29.87                                     | - .47                                   | 35          | 34   | + 2                                     | S     | 2                    | b        | *                 | 40          | 33             | -                         |  |
| Berlin ...            | 30.18                                       | 35                 | SSW   | 1                    | b        | 29.97                                     | - .48                                   | 30          | 29   | + 3                                     | W     | 1                    | b        | *                 | 41          | 27             | -                         |  |
| Wiesbaden ...         | *   | *                  | *     | *                    | *        | 30.01                                     | - .37                                   | 26          | 25   | - 4                                     | E     | 1                    | c        | *                 | 41          | 28             | -                         |  |
| Munich ...            | 30.08                                       | 29                 | SW    | 3                    | b        | 29.98                                     | - .26                                   | 26          | 25   | + 2                                     | SW    | 1                    | m        | *                 | 36          | 28             | -                         |  |
| AFRICA.               |   |                    |       |                      |          |   |   |             |      |   |       |                      |          |                   |             |                |                           |  |
| The Helder ...        | 30.00                                       | 39                 | S     | 2                    | c        | 29.76                                     | - .48                                   | 43          | 42   | + 6                                     | SSW   | 4                    | o        | 3                 | 45          | 37             | -                         |  |
| Brussels ...          | *   | *                  | *     | *                    | *        | 29.89                                     | - .43                                   | 38          | 35   | + 5                                     | SSW   | 3                    | o        | *                 | 42          | ?              | 0.04                      |  |
| Cape Gris Nez...      | 30.01                                       | 40                 | S     | 5                    | c        | 29.80                                     | - .48                                   | 43          | 43   | + 8                                     | S     | 7                    | r        | 5                 | 46          | ?              | 0.12                      |  |
| Paris ...             | 30.12                                       | 34                 | N     | 1                    | bc       | 29.97                                     | - .33                                   | 36          | 33   | + 12                                    | SSW   | 3                    | r        | *                 | 43          | 28             | -                         |  |
| Brest ...             | 30.04                                       | 54                 | S     | 7                    | r        | 29.95                                     | - .28                                   | 51          | 49   | + 1                                     | WSW   | 1                    | o        | 2                 | 61          | 37             | 0.16                      |  |
| ASIA.                 |   |                    |       |                      |          |   |   |             |      |   |       |                      |          |                   |             |                |                           |  |
| Lorient ...           | 30.08                                       | 49                 | SSW   | 5                    | r        | 29.89                                     | - .38                                   | 54          | 54   | + 10                                    | WSW   | 4                    | f        | 2                 | ?           | 41             | 0.04                      |  |
| Rochefort ...         | 30.18                                       | 42                 | NE    | 1                    | c        | 30.06                                     | - .24                                   | 42          | 39   | + 1                                     | S     | 4                    | o        | 2                 | 54          | 36             | -                         |  |
| Belfort ...           | 30.13                                       | 32                 | E     | 5                    | b        | 30.00                                     | - .19                                   | 29          | 23   | - 1                                     | E     | 1                    | b        | *                 | 37          | 17             | -                         |  |
| Lyons ...             | 30.13                                       | 34                 | N     | 1                    | b        | 30.10                                     | - .14                                   | 25          | 24   | + 1                                     | WSW   | 1                    | b        | *                 | 41          | 3              | -                         |  |
| Nice ...              | 29.91                                       | 53                 | S     | 1                    | bc       | 29.95                                     | + .02                                   | 46          | 42   | - 10                                    | E     | 1                    | b        | 2                 | 61          | 46             | -                         |  |
| AUSTRALIA.            |   |                    |       |                      |          |   |   |             |      |   |       |                      |          |                   |             |                |                           |  |
| Perpignan ...         | 30.04                                       | 49                 | WSW   | 3                    | b        | 30.01                                     | - .06                                   | 34          | 31   | - 7                                     | W     | 3                    | b        | *                 | ?           | 30             | -                         |  |
| Barritz ...           | 30.13                                       | 46                 | W     | 0                    | b        | 30.02                                     | - .22                                   | 46          | 36   | + 10                                    | W     | 0                    | o        | 0                 | 54          | 36             | -                         |  |
| Corunna ...           | *   | *                  | *     | *                    | *        |   |   |             |      |   |       |                      |          |                   |             |                |                           |  |
| Lisbon ...            | 30.12                                       | 57                 | N     | 5                    | c        | 30.12                                     | - .03                                   | 57          | 54   | + 4                                     | W     | 1                    | c        | 2                 | 66          | ?              | -                         |  |

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on

Friday, 28<sup>th</sup> October.

1887.

## BAROMETER, WIND & SEA.

(Explanation of Map)

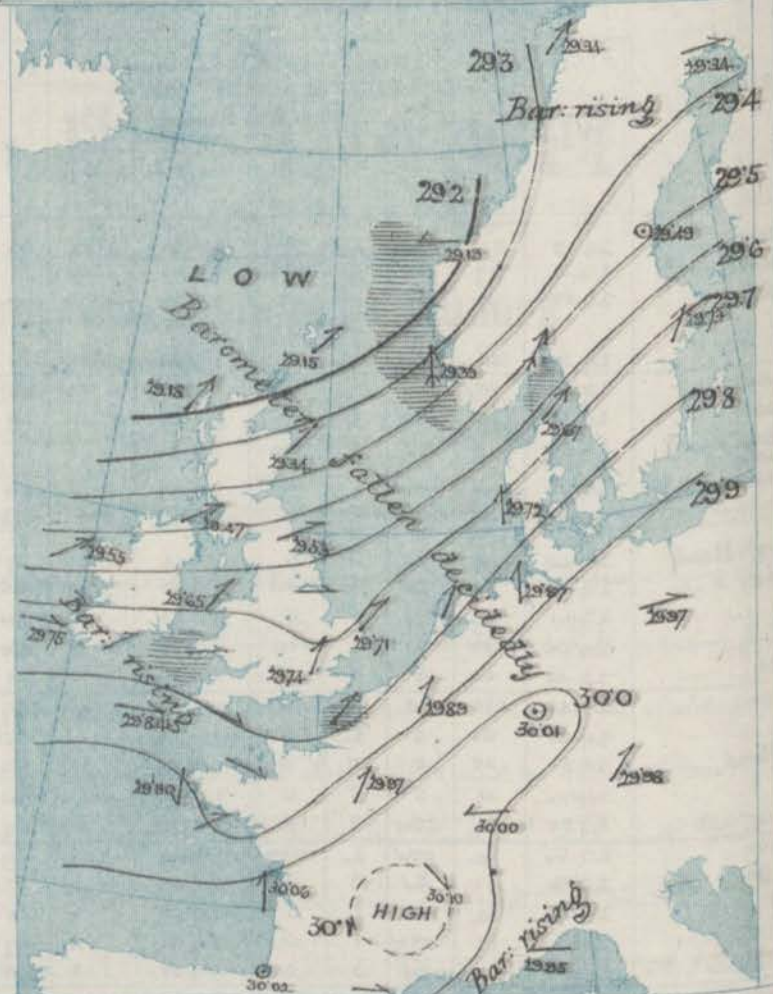
**Barometer**—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.  
**Wind**—Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus—  
 \* → = forces above 10; \* → = forces 8 to 10;  
 — → = forces 5 to 7;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

**Sea Disturbance**—where considerable is shown thus  
 [wavy line] = Rough. [stippled area] = High.

## MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of October.  
 During the 10 Years 1871—1880.

| STATIONS.      | MEAN READINGS. |
|----------------|----------------|
|                | in.            |
| Sumburgh Head. | 29.685         |
| Stornoway.     | 29.707         |
| Wick.          | 29.718         |
| Nairn.         | 29.738         |
| Aberdeen.      | 29.748         |
| Leith.         | 29.780         |
| Shields.       | 29.821         |
| York.          | 29.860         |
| Ardrossan.     | 29.749         |
| Donsghadee.    | 29.805         |
| Holyhead.      | 29.830         |
| Liverpool.     | 29.848         |
| Valencia.      | 29.842         |
| Roche's Point. | 29.843         |
| Pembroke.      | 29.847         |
| Scilly.        | 29.877         |
| Hurst Castle.  | 29.894         |
| Dover.         | 29.907         |
| LONDON.        | 29.902         |
| Oxford.        | 29.891         |
| Cambridge.     | 29.894         |
| Yarmouth.      | 29.889         |



## TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

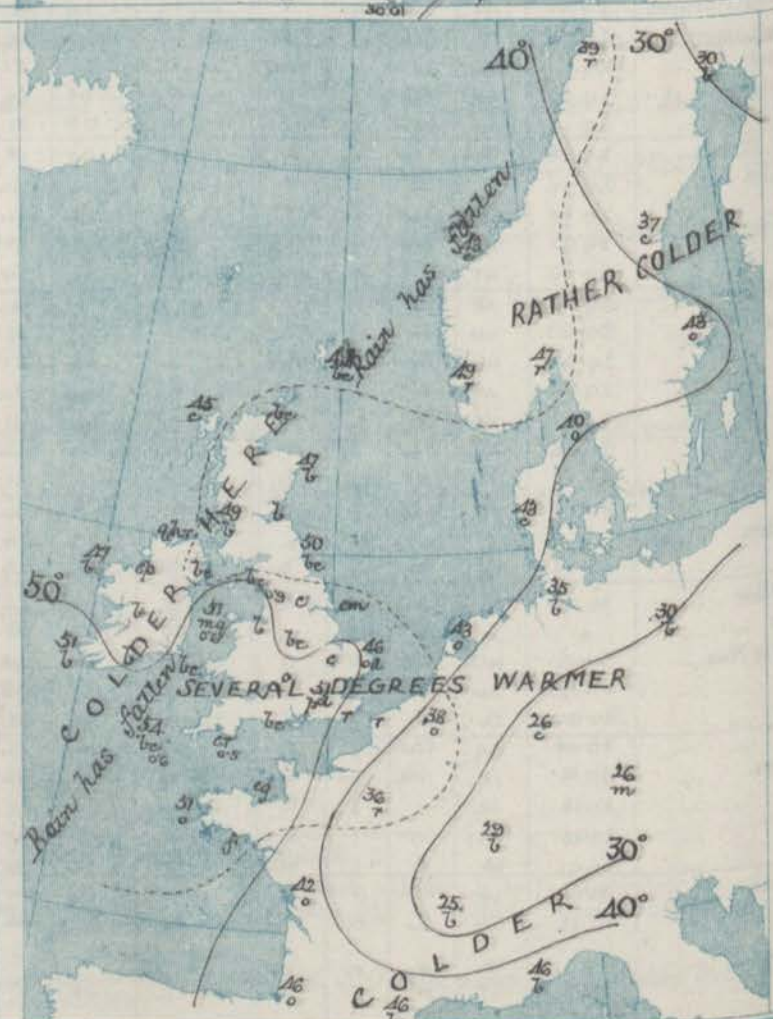
**Temperature**—Isotherms are drawn for each 10° changes since previous morning are stated in words.  
**Weather** is shown by Letters of the Beaufort Scale.  
**Rainfall** A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are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

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of October

| STATIONS      | TEMPERATURE   |               |           |      | RAINFALL<br>(Inches) |
|---------------|---------------|---------------|-----------|------|----------------------|
|               | Daily<br>Max. | Daily<br>Min. | At 9 a.m. |      |                      |
|               |               |               | Dry.      | Wet. |                      |
| Sumburgh Head | 48.5          | 41.6          | 45.9      | 44.4 | 4.33                 |
| Stornoway     | 50.2          | 38.8          | 45.1      | 43.9 | 4.94                 |
| Wick          | 51.8          | 40.0          | 46.0      | 44.3 | 2.94                 |
| Nairn         | 51.4          | 40.7          | 44.6      | 42.5 | 2.38                 |
| Aberdeen      | 52.1          | 41.3          | 45.5      | 43.6 | 2.88                 |
| Leith         | 55.3          | 41.9          | 46.7      | 45.1 | 1.94                 |
| Shields       | 58.2          | 43.1          | 47.3      | 45.5 | 2.46                 |
| York          | 55.2          | 40.9          | 46.0      | 44.7 | 2.64                 |
| Ardrossan     | 53.7          | 43.2          | 47.7      | 45.4 | 4.31                 |
| Donsghadee    | 53.2          | 43.2          | 47.8      | 46.8 | 3.35                 |
| Holyhead      | 54.9          | 47.5          | 50.4      | 48.6 | 4.53                 |
| Liverpool     | 54.0          | 44.9          | 48.0      | 46.2 | 3.62                 |
| Valencia      | 56.7          | 46.5          | 51.3      | 49.1 | 6.09                 |
| Roche's Point | 55.6          | 46.4          | 50.4      | 48.6 | 4.17                 |
| Pembroke      | 55.1          | 48.4          | 51.5      | 49.4 | 4.13                 |
| Scilly        | 56.8          | 50.7          | 53.9      | 52.0 | 3.84                 |
| Hurst Castle  | 57.7          | 46.8          | 51.5      | 50.5 | 3.24                 |
| Dover         | 56.2          | 47.8          | 51.5      | 49.4 | 3.28                 |
| LONDON        | 57.1          | 53.5          | 48.4      | 46.9 | 2.74                 |
| Oxford        | 55.7          | 42.9          | 47.0      | 45.8 | 2.72                 |
| Cambridge     | 57.0          | 41.6          | 46.6      | 45.7 | 2.36                 |
| Yarmouth      | 54.9          | 45.1          | 48.5      | 48.2 | 2.07                 |

NOTE—The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 10 years 1866—85





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.1 ins: over Central France and also in the neighbourhood of Lisbon.  
Lowest, 29.2 ins: and less, in a large area lying to the northward of our Islands.  
Gradients still rather steep over our Islands and the North Sea. Barometer rising on our SW. coasts, and also over N. Scandinavia but falling elsewhere.

## TEMPERATURE

Highest, 57° at Lisbon, 54° at Scilly, Jersey and Lorient, and 52° at Pembroke, Hurst Castle and Oxford.  
Lowest, 25° at Lyons, 26° at Wiesbaden and Munich, 29° at Belfast, 30° at Haparanda and Berlin, and 34° at Lerpapun.

## WIND

Moderate or fresh from SW. or W. over our Islands and the north of France.  
S<sup>W</sup> on the eastern shores of the North Sea, with a fresh gale in the south of Norway.  
Light and variable in the south and east of France.

## WEATHER

Rainy in Norway, the extreme south-east of England and the north-east of France.  
Fair or fine in most other localities, but showers reported in the north of Ireland.  
[The largest amounts of rain which fell yesterday were 0.9 ins at Banow in Fenners, and 0.6 in at Holyhead and Scilly.]

## SEA

Rough off the south of Norway, and rather rough at Christiansund, Pembroke, and Orix Key, but moderate or slight elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The large area of low pressure in the north appears to be moving eastwards, and the recovery of pressure which has commenced in the southwest seems likely to become more general. Conditions are, however, still unsettled and the improvement in the weather which has set in on our eastern and northern coasts is scarcely likely to prove permanent.

## FORECASTS

for the 24 hours ending at NOON on 29<sup>th</sup> OCTOBER 1887.

### DISTRICTS.



### FORECASTS.

|   |                  |   |
|---|------------------|---|
| 0 | SCOTLAND NORTH   | SW <sup>W</sup> to NW <sup>W</sup> winds, moderate or fresh; fine to showery.                     |
| 1 | SCOTLAND EAST    | ----- D° ----- D° ----- D° -----  |
| 2 | ENGLAND N.E.     | W <sup>W</sup> winds, moderate, changeable, some rain.  |
| 3 | ENGLAND EAST     | Same as N° 5  |
| 4 | MIDLAND COUNTIES | Same as N° 5  |
| 5 | ENGLAND SOUTH    | SW <sup>W</sup> and W <sup>W</sup> winds, moderate, changeable, some showers, becoming less mild. |

### DISTRICTS.

### FORECASTS.

|          |               |   |
|----------|---------------|---|
| 6        | SCOTLAND WEST | Same as N° 0  |
| 7        | ENGLAND N.W.  | Same as N° 0  |
| 8        | ENGLAND S.W.  | W <sup>W</sup> to NW <sup>W</sup> winds, moderate or fresh; changeable, some showers. |
| 9        | IRELAND NORTH | ----- D° ----- D° ----- D° -----  |
| 10       | IRELAND SOUTH | ----- D° ----- D° ----- D° -----  |
| 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.  | Dry. | Wet. | Wind. | Wes. | Sea. |               | Bar.  | Dry. | Wet. | Wind. | Wes.  | Sea. |
|-----------------|-------|------|------|-------|------|------|---------------|-------|------|------|-------|-------|------|
| Skudesnaes ...  | 29.67 | 49   | 48   | SEW 8 | r f  | 6    | Holyhead ...  | 29.74 | 53   | 53   | SEW 8 | r y w | 7    |
| Sumburgh Head   | 29.50 | 47   | 46   | 20 0  | 0    | 8    | Valencia ...  | 29.73 | 59   | 56   | WNW 2 | o f   | 2    |
| Stornoway ...   | 29.44 | 50   | 49   | SEW 4 | c    | 3    | Scilly ...    | 29.89 | 53   | 52   | SEW 4 | r     | 6    |
| Aberdeen ...    | 29.50 | 53   | 51   | SEW 4 | c    | 2    | Dungeness ... | 30.11 | 48   | 43   | SEW 4 | c     | 4    |
| Shields ...     | 29.70 | 50   | 48   | S 4   | 0    | 2    | London ...    | 30.06 | 48   | 44   | SEW 8 | o d   | *    |
| Ardrossan ...   | 29.69 | 52   | 52   | SEW 3 | 0    | 2    | Yarmouth ...  | 30.04 | 48   | 44   | SEW 4 | c     | 4    |
| Malin Head ...  | 29.59 | 51   | 49   | W 2   | 0    | 3    | Jersey ...    | 30.14 | 48   | 42   | S 8   | 0     | 3    |
| Mullaghmore ... | 29.63 | 53   | 50   | WSW 2 | 0    | 2    | Rochefort ... | 30.23 | 50   | 43   | E 3   | bc    | 2    |
| Belmullet ...   | 29.64 | 53   | 51   | WSW 1 | 0    | *    |               |       |      |      |       |       |      |

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

Yesterday morning's reports showed that a further fall of the barometer had taken place over Western and Northern Europe, and that pressure varied from 30.5 ins: and more over Poland and Southern Russia and from between 30.3 ins: and 30.4 ins: over North Germany and all the northern half of France to rather below 29.0 ins: over Lapland, on the one hand, and to rather below 29.7 ins: in a depression which lay over the Baltic, on the other. Fine, cold, bright weather prevailed in France and North Germany, with light variable winds, while milder and showery weather was felt over the British Isles, the Baltic, and Northern Europe, with S<sup>W</sup> to W<sup>N</sup> winds— which blew again in many places, but were moderate in others. In the south of France the wind was strong from NE. and N. and the weather was dry, while over the southern part of the Mediterranean it varied from SE to SW or NW. and rain prevailed. Temperature had fallen greatly over Central and Southern Europe, while it had risen over the British Isles and Northern Europe; the highest individual values reported were 62° at Brindisi, 59° at Malta, 57° at Kilmuckie (Ireland) 56° at Kiev and Sanguinaw, 54° at Lerina, and upwards of 50° over all the western parts of the British Isles; the lowest were 18° at Clermont (France) 21° at Archangel, 23° at Warsaw, 24° at Paris, Lyons, Munich, Breslau and Moscow, and 26° at Rome and Besancon.

Later in the day the milder weather began to spread southwards over the northern parts of France, and unsettled, showery weather with winds from the SW<sup>W</sup> remained prevalent over the British Isles and Northern Europe.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for

Saturday 29<sup>th</sup> October

1887.

Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

| STATIONS.                  | † YESTERDAY EVENING.             |                 |       |                   |          | 8 A.M. TO DAY.                 |                                   |             |      |                                   |       |                   |          |                |             | PAST 24 HOURS. |                     |  |
|----------------------------|----------------------------------|-----------------|-------|-------------------|----------|--------------------------------|-----------------------------------|-------------|------|-----------------------------------|-------|-------------------|----------|----------------|-------------|----------------|---------------------|--|
|                            | Barometer at 3 P. and Sea Level. | Temp. in Shade. | WIND. |                   | Weather. | BAROMETER.                     |                                   | SHADE TEMP. |      |                                   | WIND. |                   | Weather. | Sea. (0 to 3.) | SHADE TEMP. |                | Amount of Rainfall. |  |
|                            |                                  |                 | Dir.  | Force. (0 to 12.) |          | Reading at 8 P. and Sea Level. | Difference from 8 a.m. yesterday. | Dry.        | Wet. | Difference from 8 a.m. yesterday. | Dir.  | Force. (0 to 12.) |          |                | Max.        | Min.           |                     |  |
| SCANDINAVIA.               |                                  |                 |       |                   |          |                                |                                   |             |      |                                   |       |                   |          |                |             |                |                     |  |
| Haparanda ..               | 29.36                            | 35              | SW    | 2                 | 0        | 29.25                          | -0.09                             | 39          | 39   | +9                                | SW    | 4                 | 7        | *              | 39          | 28             | 0.20                |  |
| Hernösand ...              | 29.36                            | 43              | S     | 4                 | 0        | 29.35                          | -0.14                             | 41          | 40   | +4                                | SSW   | 2                 | C        | *              | 46          | 36             | 0.04                |  |
| Stockholm ...              | 29.62                            | 44              | SSW   | 2                 | 0        | 29.57                          | -0.16                             | 41          | 39   | -2                                | SSW   | 2                 | 1        | *              | 48          | 41             | 0.04                |  |
| Wisby ...                  |                                  |                 |       |                   |          |                                |                                   |             |      |                                   |       |                   |          |                |             |                |                     |  |
| Bodo ...                   | 29.10                            | 40              | ENE   | 4                 | 7        | 29.13                          | -0.21                             | 40          | 40   | +1                                | SW    | 4                 | C        | 2              | ?           | 37             | 0.35                |  |
| Christiansund...           | 29.12                            | 45              | SSW   | 3                 | C        | 29.19                          | -0.00                             | 41          | 40   | -2                                | ESE   | 2                 | bc       | 4              | 46          | 39             | 0.28                |  |
| Skudesnaes ...             | 29.39                            | 48              | SSW   | 4                 | C        | 29.38                          | -0.01                             | 47          | 44   | -2                                | SSW   | 7                 | 7        | 5              | 52          | 48             | -                   |  |
| Christiania Fjord (Færdar) | 29.39                            | 49              | S     | 5                 | 0        | 29.44                          | -0.12                             | 47          | 45   | 0                                 | SW    | 6                 | 6        | 4              | 46          | 46             | 0.04                |  |
| Skagen (The Scaw)          | 29.49                            | 45              | SW    | 1                 | 0        | 29.51                          | -0.16                             | 41          | 41   | +1                                | SW    | 1                 | 0        | 2              | 45          | 39             | 0.16                |  |
| Faenø ...                  | 29.60                            | 47              | WSW   | 3                 | 6        | 29.60                          | -0.12                             | 43          | 43   | 0                                 | SW    | 1                 | 6        | *              | 48          | 43             | 0.20                |  |
| BRITISH ISLANDS.           |                                  |                 |       |                   |          |                                |                                   |             |      |                                   |       |                   |          |                |             |                |                     |  |
| Samburgh Head              | 29.16                            | 45              | SW    | 4                 | bc       | 29.14                          | -0.01                             | 44          | 43   | -3                                | WSW   | 1                 | C        | 3              | 49          | 42             | 0.06                |  |
| Stornoway ...              | 29.17                            | 46              | W     | 5                 | C        | 29.12                          | -0.06                             | 41          | 41   | -4                                | SW    | 4                 | 7        | 3              | 50          | 39             | 0.22                |  |
| Wick ...                   | 29.24                            | 45              | W     | 2                 | bc       | 29.16                          | -0.07                             | 44          | 43   | 0                                 | W     | 2                 | 0        | 0              | 51          | 39             | -                   |  |
| Nairn ...                  | 29.28                            | 44              | SW    | 1                 | C        | 29.18                          | -0.09                             | 41          | 39   | -5                                | SW    | 1                 | C        | 1              | 51          | 37             | 0.02                |  |
| Aberdeen ...               | 29.35                            | 44              | SW    | 4                 | 6        | 29.19                          | -0.15                             | 41          | 40   | -6                                | WSW   | 2                 | 7        | 1              | 54          | 38             | 0.01                |  |
| Leith ...                  | 29.45                            | 48              | W     | 3                 | 6        | 29.28                          | -0.15                             | 44          | 42   | -5                                | W     | 3                 | 6        | *              | 54          | 40             | 0.06                |  |
| Shields ...                | 29.55                            | 47              | SW    | 2                 | 6        | 29.38                          | -0.15                             | 44          | 41   | -6                                | WSW   | 3                 | bc       | 2              | 54          | 42             | 0.05                |  |
| Sparn Head ...             | 29.65                            | 48              | WSW   | 3                 | bc       | 29.54                          | -0.10                             | 46          | 45   | -3                                | SW    | 4                 | bc       | 3              | 55          | 43             | -                   |  |
| York ...                   | 29.63                            | 48              | W     | 2                 | 6        | 29.49                          | -0.14                             | 45          | 42   | -5                                | SW    | 2                 | 6        | *              | 55          | 40             | -                   |  |
| Loughborough               | 29.70                            | 47              | WSW   | 1                 | 6        | 29.61                          | -0.09                             | 45          | 43   | -4                                | WSW   | 3                 | 6        | *              | 59          | 43             | -                   |  |
| GERMANY.                   |                                  |                 |       |                   |          |                                |                                   |             |      |                                   |       |                   |          |                |             |                |                     |  |
| Ardrossan ...              | 29.47                            | 50              | SW    | 3                 | 7        | 29.33                          | -0.14                             | 47          | 45   | -2                                | WSW   | 6                 | C        | 5              | 51          | 40             | 0.04                |  |
| Malin Head ...             | 29.39                            | 47              | WSW   | 5                 | 6        | 29.33                          | -0.12                             | 44          | 42   | -1                                | WSW   | 4                 | C        | 4              | 50          | 39             | 0.39                |  |
| Mullaghmore ...            | 29.49                            | 47              | SW    | 5                 | C        | 29.40                          | -0.13                             | 44          | 42   | -4                                | SSW   | 5                 | bc       | 5              | 52          | 42             | 0.21                |  |
| Belmullet ...              | 29.48                            | 48              | WSW   | 6                 | C        | 29.41                          | -0.14                             | 47          | 44   | 0                                 | WSW   | 3                 | C        | *              | 51          | 44             | 0.14                |  |
| Donaghadee ...             | 29.54                            | 44              | WSW   | 3                 | 6        | 29.38                          | -0.17                             | 41          | 40   | -4                                | WSW   | 5                 | bc       | 3              | 52          | 40             | 0.07                |  |
| FRANCE & NETHERLANDS.      |                                  |                 |       |                   |          |                                |                                   |             |      |                                   |       |                   |          |                |             |                |                     |  |
| Barrow-in-Furness          | 29.60                            | 50              | SW    | 3                 | bc       | 29.47                          | -0.12                             | 48          | 44   | -2                                | SW    | 6                 | bc       | *              | 53          | 46             | 0.12                |  |
| Liverpool (Bidston)        | 29.65                            | 48              | SSW   | 4                 | 6        | 29.54                          | -0.11                             | 45          | 42   | -4                                | WSW   | 4                 | 6        | 4              | 53          | 43             | 0.14                |  |
| Holyhead ...               | 29.64                            | 51              | SW    | 4                 | bc       | 29.54                          | -0.11                             | 48          | 44   | -3                                | SW    | 5                 | bc       | 5              | 54          | 46             | -                   |  |
| Parsonstown ...            | 29.61                            | 46              | S     | 1                 | C        | 29.55                          | -0.12                             | 41          | 40   | -6                                | 2     | 0                 | bc       | *              | 54          | 40             | 0.09                |  |
| Valencia ...               | 29.63                            | 49              | SW    | 5                 | 0        | 29.61                          | -0.14                             | 50          | 47   | -1                                | W     | 4                 | C        | 5              | 56          | 45             | 0.32                |  |
| Roche's Point...           | 29.68                            | 52              | WSW   | 3                 | bc       | 29.61                          | -0.14                             | 46          | 44   | -2                                | W     | 3                 | bc       | 4              | 55          | 44             | 0.18                |  |
| Pembroke ...               | 29.72                            | 52              | SW    | 4                 | bc       | 29.65                          | -0.10                             | 51          | 49   | -1                                | W     | 5                 | bc       | 5              | 54          | 49             | 0.03                |  |
| Scilly ...                 | 29.81                            | 52              | WSW   | 4                 | bc       | 29.74                          | -0.10                             | 52          | 50   | -2                                | W     | 2                 | 0        | 5              | 56          | 50             | 0.01                |  |
| Prawle Point ...           | 29.82                            | 51              | W     | 4                 | C        | 29.75                          | -0.06                             | 52          | 49   | +1                                | W     | 5                 | bc       | 5              | 57          | 47             | 0.02                |  |
| Jersey ...                 | 29.87                            | 54              | W     | 2                 | 6        | 29.83                          | -0.02                             | 54          | 52   | 0                                 | WSW   | 4                 | C        | 3              | 59          | 52             | 0.02                |  |
| Hurst Castle ...           | 29.98                            | 51              | W     | 4                 | 6        | 29.75                          | -0.02                             | 51          | 50   | -1                                | W     | 5                 | C        | 3              | 56          | 47             | 0.02                |  |
| Dungeness ...              | 29.75                            | 51              | W     | 5                 | C        | 29.72                          | -0.02                             | 52          | 51   | +4                                | WSW   | 4                 | 7        | 4              | 58          | 47             | 0.10                |  |
| London ...                 | 29.76                            | 49              | SW    | 1                 | 6        | 29.71                          | -0.03                             | 48          | 46   | -3                                | SW    | 2                 | 6        | *              | 60          | 42             | -                   |  |
| Oxford ...                 | 29.76                            | 46              | SW    | 3                 | 6        | 29.68                          | -0.06                             | 47          | 45   | -5                                | SW    | 4                 | 6        | *              | 60          | 43             | 0.01                |  |
| Cambridge ...              | 29.71                            | 48              | SW    | 1                 | bc       | 29.65                          | -0.05                             | 46          | 45   | -5                                | SW    | 1                 | 6        | *              | 60          | 37             | -                   |  |
| Yarmouth ...               | 29.70                            | 50              | W     | 2                 | bc       | 29.62                          | -0.09                             | 46          | 45   | 0                                 | WSW   | 4                 | bc       | 3              | 54          | 41             | 0.03                |  |
| Cuxhaven ...               | 29.72                            | 38              | SW    | 2                 | 6        | 29.71                          | -0.16                             | 40          | 40   | +5                                | SW    | 3                 | 6        | *              | 42          | ?              | -                   |  |
| Berlin ...                 | 29.82                            | 36              | SSW   | 1                 | 6        | 29.79                          | -0.18                             | 34          | 33   | +4                                | SW    | 1                 | 7        | *              | 45          | ?              | -                   |  |
| Wiesbaden ...              |                                  |                 |       |                   |          |                                |                                   | 39          | 39   | +13                               | 2     | 0                 | 0        | *              | 39          | ?              | 0.12                |  |
| Munich ...                 | 29.95                            | 32              | SW    | 1                 | m        | 29.96                          | -0.02                             | 37          | 36   | +11                               | W     | 4                 | 7        | *              | 41          | 23             | 0.04                |  |
| NETHERLANDS.               |                                  |                 |       |                   |          |                                |                                   |             |      |                                   |       |                   |          |                |             |                |                     |  |
| The Helder ...             | 29.71                            | 46              | SSW   | 1                 | 6        | 29.67                          | -0.09                             | 47          | 47   | +4                                | SW    | 3                 | 6        | 2              | 48          | 41             | 0.04                |  |
| Brussels ...               |                                  |                 |       |                   |          | 29.84                          | -0.05                             | 46          | 46   | +8                                | S     | 4                 | 0        | *              | 46          | ?              | 0.04                |  |
| Cape Gris Nez...           | 29.75                            | 52              | SW    | 4                 | bc       | 29.75                          | -0.05                             | 52          | 52   | +9                                | SSW   | 7                 | 0        | 5              | 54          | ?              | 0.12                |  |
| Paris ...                  | 29.91                            | 41              | SW    | 3                 | 7        | 29.94                          | -0.03                             | 43          | 43   | +7                                | SSW   | 3                 | 0        | *              | ?           | ?              | 0.28                |  |
| Brest ...                  | 29.95                            | 53              | W     | 4                 | 0        | 29.89                          | -0.06                             | 54          | 51   | +3                                | WSW   | 5                 | 0        | 5              | 61          | 36             | -                   |  |
| Lorient ...                | 29.93                            | 54              | WSW   | 4                 | C        | 29.91                          | +0.02                             | 53          | 53   | +1                                | W     | 4                 | 0        | 3              | 55          | 52             | -                   |  |
| Rochefort ...              | 30.01                            | 47              | S     | 7                 | 6        | 29.96                          | -0.10                             | 48          | 48   | +6                                | S     | 3                 | 0        | 2              | 48          | ?              | 0.12                |  |
| Belfort ...                | 30.03                            | 32              | N     | 3                 | C        | 30.02                          | +0.02                             | 39          | 38   | +10                               | WSW   | 1                 | 6        | *              | 39          | 29             | 0.32                |  |
| Lyons ...                  | 30.07                            | 37              | E     | 1                 | 7        | 30.08                          | -0.02                             | 37          | 36   | +12                               | W     | 1                 | 0        | *              | 42          | ?              | 0.04                |  |
| Nice ...                   | 29.95                            | 51              | SSW   | 1                 | 0        | 29.97                          | +0.02                             | 48          | 45   | +2                                | E     | 3                 | 6        | 1              | 59          | 41             | -                   |  |
| Perpignan ...              | 30.01                            | 48              | 2     | 0                 | 6        | 30.03                          | +0.07                             | 41          | 37   | +7                                | WSW   | 3                 | 6        | *              | 67          | 40             | -                   |  |
| Biarritz ...               | 30.02                            | 52              | S     | 1                 | 0        | 30.05                          | +0.03                             | 56          | 55   | +10                               | SW    | 1                 | 0        | 1              | 57          | 43             | 0.04                |  |
| Corunna ...                |                                  |                 |       |                   |          |                                |                                   |             |      |                                   |       |                   |          |                |             |                |                     |  |
| Lisbon ...                 | 30.12                            | 62              | W     | 3                 | 6        | 30.13                          | +0.01                             | 60          | 59   | +3                                | SW    | 4                 | 6        | 2              | 70          | ?              | -                   |  |

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on

Saturday, 29<sup>th</sup> October.

1887.

## BAROMETER, WIND & 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.

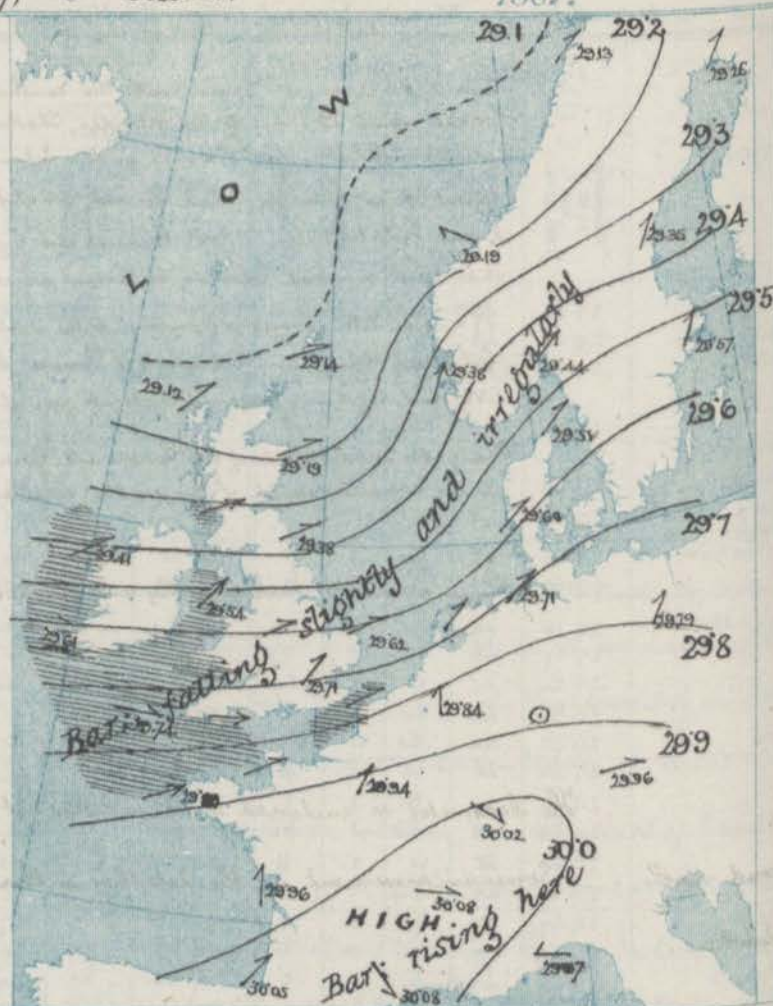
**Sea Disturbance** — where considerable is shown thus

■ = Rough. ■ = High.

## MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of October  
During the 10 Years 1871—1880.

| STATIONS.     | MEAN READINGS. |
|---------------|----------------|
|               | in.            |
| Sumburgh Head | 29.685         |
| Stornoway     | 29.707         |
| Wick          | 29.715         |
| Nairn         | 29.788         |
| Aberdeen      | 29.748         |
| Leith         | 29.780         |
| Shields       | 29.821         |
| York          | 29.860         |
| Ardrossan     | 29.748         |
| Donaghadee    | 29.805         |
| Holyhead      | 29.830         |
| Liverpool     | 29.848         |
| Valencia      | 29.842         |
| Roche's Point | 29.843         |
| Pembroke      | 29.847         |
| Scilly        | 29.877         |
| Hurst Castle  | 29.894         |
| Dover         | 29.907         |
| LONDON        | 29.902         |
| Oxford        | 29.891         |
| Cambridge     | 29.894         |
| Yarmouth      | 29.859         |



## 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<br>(Inches) |
|---------------|---------------|---------------|-----------|------|----------------------|
|               | Daily<br>Max* | Daily<br>Min. | At 8 a.m. |      |                      |
|               |               |               | Dry.      | Wet. |                      |
| Sumburgh Head | 40.5          | 41.6          | 45.9      | 44.4 | 4.33                 |
| Stornoway     | 50.2          | 38.8          | 45.1      | 43.9 | 4.94                 |
| Wick          | 51.8          | 40.0          | 46.0      | 44.3 | 2.94                 |
| Nairn         | 51.4          | 40.7          | 44.0      | 42.5 | 2.38                 |
| Aberdeen      | 52.1          | 41.3          | 45.5      | 43.5 | 2.88                 |
| Leith         | 55.3          | 41.9          | 46.7      | 45.1 | 1.94                 |
| Shields       | 53.2          | 43.1          | 47.3      | 45.5 | 2.46                 |
| York          | 55.2          | 40.9          | 46.0      | 44.7 | 2.64                 |
| Ardrossan     | 53.7          | 43.2          | 47.7      | 45.4 | 4.31                 |
| Donaghadee    | 53.2          | 43.2          | 47.8      | 46.8 | 3.36                 |
| Holyhead      | 54.9          | 47.5          | 50.4      | 48.6 | 4.53                 |
| Liverpool     | 54.0          | 44.9          | 48.0      | 46.2 | 3.62                 |
| Valencia      | 56.7          | 46.5          | 51.3      | 49.1 | 6.09                 |
| Roche's Point | 55.6          | 48.4          | 50.4      | 48.6 | 4.17                 |
| Pembroke      | 55.1          | 48.4          | 51.6      | 49.4 | 4.13                 |
| Scilly        | 56.8          | 50.7          | 53.9      | 52.0 | 3.84                 |
| Hurst Castle  | 57.7          | 46.8          | 51.5      | 50.5 | 3.24                 |
| Dover         | 56.2          | 47.8          | 51.5      | 49.4 | 3.28                 |
| LONDON        | 57.1          | 43.5          | 48.4      | 46.9 | 2.74                 |
| Oxford        | 55.7          | 42.9          | 47.0      | 45.8 | 2.72                 |
| Cambridge     | 57.0          | 41.6          | 46.6      | 45.7 | 2.30                 |
| Yarmouth      | 54.9          | 45.1          | 49.5      | 48.2 | 2.97                 |

NOTE — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 20 years 1866—85





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.0 ins. over Spain, with the south-western and Central parts of France.  
 Lowest, about 29.1 ins. off the Hebrides, Shetlands, and the north-west coast of Norway.  
 Gradients moderate - for W winds in our Islands, and for SW to S on the eastern shores of the North Sea. Barometer rising slowly in SW and S.

## TEMPERATURE

Highest, 56° at Biarritz, 55° at Lorient, 54° at Brest and Jersey and 50° at Valencia.  
 Lowest, 34° at Berlin, 37° at Munich and Lyons, 39° at Haparanda, 41° at several of the Scotch stations.  
 It is lower over our Islands by several degrees than it was yesterday; higher over France and Germany.

## WIND

W<sup>ly</sup> and SW<sup>ly</sup> in our Islands and the north of France - light in the north, moderate to fresh elsewhere.  
 Light and variable in the south of France, light SW<sup>ly</sup> over Denmark.  
 SW<sup>ly</sup> and SE<sup>ly</sup> in Norway (a moderate gale at Hudders). It blew strongly for a time in some parts of the Channel during the night.

## WEATHER

Changeable over the whole of NW Europe and Germany - sky being clear in some places, overcast in others with showers in several localities.  
 In the extreme south of France the weather is clear and bright.

## SEA

Rough on our W coast generally and in the Channel, slight off our Northern coast, as well as over the North Sea and Bay of Biscay.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The barometer is inclined to rise a little at the southern and south-western stations, but still falls in the east and north. Some improvement in the weather is therefore likely in the south, but no material alteration is looked for elsewhere.

## FORECASTS

for the 24 hours ending at NOON on 30<sup>th</sup> OCTOBER 1887.

### DISTRICTS.

### FORECASTS.

|   |                  |   |
|---|------------------|---|
| 0 | SCOTLAND NORTH   | W <sup>ly</sup> and SW <sup>ly</sup> winds, moderate or light; showery, unsettled.    |
| 1 | SCOTLAND EAST    | -----D°-----D°-----D°-----  |
| 2 | ENGLAND N.E.     | -----D°-----D°-----D°-----  |
| 3 | ENGLAND EAST     | -----D°-----D°-----D°-----  |
| 4 | MIDLAND COUNTIES | Same as No 5  |
| 5 | ENGLAND SOUTH    | W <sup>ly</sup> and SW <sup>ly</sup> breezes, fresh to moderate; changeable, showery. |

### DISTRICTS.

### FORECASTS.

|    |               |   |
|----|---------------|---|
| 6  | SCOTLAND WEST | Wind backing to the SW <sup>ly</sup> or S <sup>ly</sup> again, force doubtful; showery, changeable. |
| 7  | ENGLAND N.W.  | -----D°-----D°-----D°-----  |
| 8  | ENGLAND S.W.  | -----D°-----D°-----D°-----  |
| 9  | IRELAND NORTH | -----D°-----D°-----D°-----  |
| 10 | IRELAND SOUTH | -----D°-----D°-----D°-----  |

### WARNINGS

The S. cone hoisted in districts 5 and 7 to 10 last evening has been lowered again this morning.

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



# YESTERDAY'S 2 P.M. REPORTS.

|               | Bar.  | Dry. | Wet. | Wind. | Wea. | Sea. |           | Bar.  | Dry. | Wet. | Wind. | Wea. | Sea. |
|---------------|-------|------|------|-------|------|------|-----------|-------|------|------|-------|------|------|
| Skudesnes     | 29.87 | 51   | 49   | SEW 7 | 0 f  | 6    | Holyhead  | 29.66 | 53   | 48   | SW 4  | bcy  | 4    |
| Sumburgh Head | 29.15 | 48   | 45   | SW 5  | bc   | 4    | Valencia  | 29.70 | 53   | 50   | W 5   | cp   | 5    |
| Stornoway     | 29.19 | 45   | 44   | SW 6  | cp   | 4    | Scilly    | 29.84 | 56   | 54   | W 4   | c    | 4    |
| Aberdeen      | 29.36 | 52   | 46   | SW 5  | b    | 4    | Dungeness | 29.74 | 54   | 53   | W 3   | c    | 3    |
| Shields       | 29.82 | 54   | 47   | W 4   | bc   | 2    | London    | 29.74 | 60   | 51   | W 3   | bc   | *    |
| Ardrossan     | 29.47 | 51   | 48   | SW 4  | c    | 3    | Yarmouth  | 29.69 | 54   | 52   | W 3   | b    | 3    |
| Malin Head    | 29.40 | 48   | 46   | W 6   | b    | 6    | Jersey    | 29.85 | 59   | 54   | W 3   | bc   | 3    |
| Mullaghmore   | 29.53 | 48   | 45   | W 6   | cp   | 5    | Rocheport | 30.04 | 45   | 44   | S 5   | o    | 2    |
| Belmullet     | 29.55 | 50   | 46   | W 6   | bc   | *    |           |       |      |      |       |      |      |

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

The Continental reports for yesterday showed that pressure was highest 30.5 ins. and upwards in a large anticyclone the central portion of which lay over the Sea of Azor, and relatively high 30 ins. and upwards over Spain and Algeria. The lowest readings 29.3 ins. and less, were found in a very extensive area lying over the extreme northern parts of the British Isles and the Continent, but a shallow area of relatively low readings extended from Corsica to Scilly. Moderate to strong breezes from the SW<sup>nd</sup> prevailed over the whole of northern and northwestern Europe, but in the more southern districts the wind was generally light in force and very variable in direction. Rain was falling in the Gulf of Finland, the south of Norway, the south-east of England, the Netherlands and the north-east of France, and cloudy weather prevailed in several other parts of Europe, but in the west and north of our Islands the sky was clear. Temperature had risen several degrees over England, and to a less extent over the greater part of France and Spain, but elsewhere the tendency was for a slight fall; readings ranged from 55° and upwards over Spain, South Italy, and the Algerian coast to 32° or less in a long band extending westwards from Southern Russia across the whole of Central Europe, as well as in Lapland and Central Spain. The highest individual readings were 61° at Tunis and Brindisi, 60° at Malta, 59° at Palma, 57° at Algiers, Genoa, and Leghorn, and 54° at La Calle, Biskra, Cagliari, and Palermo; the lowest were 18° at Clermont, 24° at Besancon, 25° at Lyons, 26° at Carrel and Norra, 27° at Jap, and 28° at Nancy, Kiev and Charkov.

In the course of the day very little change occurred in the general distribution of pressure, but the weather cleared over England; and the thermometer in London rose to a maximum of 60°.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for Sunday 30<sup>th</sup> OCT<sup>r</sup>

1887.

Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

| Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary. |       |                                    |                 |        |                   |          |                                 |                                   |             |      |                                   |        |                   |          |                |             |                |                     |  |
|--|-------|------------------------------------|-----------------|--------|-------------------|----------|---------------------------------|-----------------------------------|-------------|------|-----------------------------------|--------|-------------------|----------|----------------|-------------|----------------|---------------------|--|
| 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. |  |
|  |       |                                    |                 | Dirac. | Force. (0 to 12.) |          | Reading at 8° F. and Sea Level. | Difference from 8 a.m. yesterday. | Dry.        | Wet. | Difference from 8 a.m. yesterday. | Dirac. | Force. (0 to 12.) |          |                | Max.        | Min.           |                     |  |
| SCANDINAVIA.   |       |                                    |                 |        |                   |          |                                 |                                   |             |      |                                   |        |                   |          |                |             |                |                     |  |
| Haparanda  | 29.34 | 65                                 | Z               | 0      | 0                 | 29.36    | + .11                           | 37                                | 37          | - 2  | Z                                 | 0      | f                 | *        | 29             | 34          | -              |                     |  |
| Hernösand  | 29.38 | 38                                 | S               | 2      | b                 | 29.37    | + .02                           | 32                                | 32          | - 9  | Z                                 | 0      | o                 | *        | 45             | ?           | -              |                     |  |
| Stockholm  | 29.66 | 39                                 | Z               | 0      | bc                | 29.54    | - .03                           | 41                                | 39          | 0    | SW                                | 2      | c                 | *        | 46             | 37          | -              |                     |  |
| Wisby  | 29.65 | 44                                 | SW              | 4      | o                 | 29.61    |                                 | 42                                | 41          |      | WSW                               | 2      | b                 | *        | 46             | 39          | 0.08           |                     |  |
| Bodö   | 29.19 | 42                                 | SW              | 4      | r                 | 29.19    | + .06                           | 40                                | 33          | 0    | E                                 | 2      | b                 | 1        | 43             | 39          | 0.04           |                     |  |
| Christiansund  | 29.19 | 42                                 | ESE             | 2      | bc                | 29.17    | - .02                           | 38                                | 36          | - 3  | SW                                | 1      | bc                | 5        | 46             | 37          | -              |                     |  |
| Skudesnaes   | 29.15 | 45                                 | WSW             | 9      | r                 | 29.27    | - .11                           | 48                                | 44          | + 1  | S                                 | 6      | o                 | 5        | 48             | 45          | -              |                     |  |
| Christiania Fjord (Fæder)  | 29.26 | 44                                 | SSW             | 5      | r                 | 29.37    | - .07                           | 47                                | 45          | 0    | SW                                | 4      | bc                | 5        | 48             | 45          | 0.16           |                     |  |
| Skagen (The Scaw)  | 29.43 | 43                                 | SW              | 3      | b                 | 29.42    | - .09                           | 42                                | 41          | + 1  | SW                                | 2      | bc                | 2        | 46             | 41          | 0.12           |                     |  |
| Fanö   | 29.57 | 46                                 | W               | 4      | b                 | 29.46    | - .14                           | 43                                | 43          | 0    | SE                                | 5      | r                 | *        | 48             | 43          | -              |                     |  |
| BRITISH ISLANDS.   |       |                                    |                 |        |                   |          |                                 |                                   |             |      |                                   |        |                   |          |                |             |                |                     |  |
| Sumburgh Head  | 29.12 | 43                                 | W               | 1      | c                 | 29.08    | - .06                           | 43                                | 42          | - 1  | S                                 | 1      | c                 | 3        | 48             | 40          | 0.15           |                     |  |
| Stornoway  | 29.12 | 40                                 | S               | 3      | bc                | 29.01    | - .11                           | 41                                | 40          | 0    | SW                                | 4      | bc                | 3        | 48             | 36          | 0.12           |                     |  |
| Wick   | 29.15 | 42                                 | W               | 1      | b                 | 29.05    | - .11                           | 42                                | 40          | - 1  | SW                                | 2      | o                 | 0        | 47             | 39          | -              |                     |  |
| Nairn  | 29.21 | 43                                 | SW              | 1      | r                 | 29.09    | - .09                           | 37                                | 36          | - 4  | Z                                 | 0      | c                 | 0        | 48             | 36          | 0.01           |                     |  |
| Aberdeen   | 29.26 | 42                                 | WSW             | 2      | bc                | 29.12    | - .07                           | 40                                | 39          | - 1  | WSW                               | 1      | o                 | 0        | 50             | 36          | 0.04           |                     |  |
| Leith  | 29.34 | 42                                 | W               | 2      | bc                | 29.16    | - .12                           | 42                                | 40          | - 2  | SW                                | 1      | cm                | *        | 50             | 40          | 0.15           |                     |  |
| Shields  | 29.43 | 45                                 | SW              | 1      | b                 | 29.18    | - .20                           | 42                                | 40          | - 2  | Z                                 | 0      | om                | 2        | 52             | 40          | -              |                     |  |
| Spurn Head   | 29.54 | 46                                 | SSW             | 3      | b                 | 29.04    | - .50                           | 42                                | 42          | - 4  | NNW                               | 7      | rmqg              | 3        | 57             | 41          | 0.32           |                     |  |
| York   | 29.32 | 46                                 | W               | 1      | b                 | 29.19    | - .30                           | 41                                | 40          | - 4  | W                                 | 1      | o                 | *        | 53             | 39          | 0.21           |                     |  |
| Loughborough   | 29.57 | 47                                 | SSW             | 3      | o                 | 29.22    | - .39                           | 41                                | 40          | - 4  | NW                                | 4      | o                 | *        | 54             | 39          | 0.95           |                     |  |
| Ardrossan  | 29.24 | 48                                 | WSW             | 4      | bc                | 29.16    | - .17                           | 46                                | 45          | - 1  | WSW                               | 3      | b                 | 2        | 50             | 44          | 0.13           |                     |  |
| Malin Head   | 29.29 | 44                                 | WSW             | 4      | b                 | 29.08    | - .25                           | 42                                | 40          | - 2  | SW                                | 5      | bcq               | 4        | 47             | 39          | 0.09           |                     |  |
| Mullaghmore  | 29.35 | 46                                 | SW              | 5      | r                 | 29.16    | - .24                           | 41                                | 40          | - 3  | SSW                               | 6      | bc                | 6        | 50             | 39          | 0.14           |                     |  |
| Belmullet  | 29.33 | 46                                 | W               | 3      | b                 | 29.16    | - .25                           | 44                                | 42          | - 3  | WSW                               | 8      | r                 | *        | 50             | 44          | 0.24           |                     |  |
| Donaghadee   | 29.41 | 43                                 | SW              | 3      | b                 | 29.22    | - .16                           | 38                                | 37          | - 3  | SW                                | 4      | b                 | 2        | 52             | 36          | -              |                     |  |
| Barrow-in-Furness  | 29.46 | 48                                 | SW              | 3      | o                 | 29.34    | - .23                           | 42                                | 41          | - 6  | SSW                               | 2      | bc                | *        | 51             | 40          | 0.56           |                     |  |
| Liverpool (Bidston)  | 29.49 | 46                                 | SSW             | 2      | o                 | 29.26    | - .28                           | 42                                | 41          | - 3  | WSW                               | 1      | o                 | 2        | 53             | 41          | 0.13           |                     |  |
| Holyhead   | 29.47 | 49                                 | SSW             | 4      | o                 | 29.29    | - .25                           | 45                                | 43          | - 3  | W                                 | 4      | bc                | 4        | 52             | 43          | 0.32           |                     |  |
| Parsonstown  | 29.42 | 47                                 | Z               | 0      | b                 | 29.33    | - .22                           | 39                                | 38          | - 2  | S                                 | 1      | bc                | *        | 50             | 36          | 0.39           |                     |  |
| Valencia   | 29.43 | 49                                 | W               | 3      | o                 | 29.41    | - .20                           | 47                                | 44          | - 3  | WSW                               | 5      | cpq               | 5        | 52             | 41          | 0.41           |                     |  |
| Roche's Point  | 29.43 | 48                                 | W               | 3      | o                 | 29.42    | - .19                           | 43                                | 41          | - 3  | WSW                               | 4      | b                 | 4        | 52             | 40          | 0.01           |                     |  |
| Pembroke   | 29.49 | 51                                 | S               | 3      | o                 | 29.39    | - .26                           | 49                                | 48          | - 2  | W                                 | 5      | bcp               | 5        | 53             | 43          | 0.47           |                     |  |
| Seilly   | 29.40 | 49                                 | SE              | 5      | r                 | 29.53    | - .21                           | 51                                | 46          | - 1  | NNW                               | 8      | c                 | 6        | 55             | 43          | 1.59           |                     |  |
| Prawle Point   | 29.55 | 49                                 | SSE             | 5      | r                 | 29.50    | - .25                           | 48                                | 45          | - 4  | W                                 | 6      | bc                | 6        | 53             | 40          | 0.50           |                     |  |
| Jersey   | 29.62 | 52                                 | S               | 6      | o                 | 29.62    | - .21                           | 52                                | 48          | - 2  | NNW                               | 7      | bcq               | 6        | 55             | 49          | 0.28           |                     |  |
| Hurst Castle   | 29.60 | 51                                 | SW              | 5      | r                 | 29.43    | - .32                           | 46                                | 44          | - 5  | NW                                | 7      | bc                | 5        | 54             | 41          | 0.97           |                     |  |
| Dungeness  | 29.66 | 51                                 | WSW             | 4      | r                 | 29.12    | - .60                           | 46                                | 44          | - 6  | W                                 | 7      | rq                | 6        | 57             | 45          | 0.47           |                     |  |
| London   | 29.63 | 50                                 | SSW             | 3      | om                | 29.25    | - .46                           | 41                                | 40          | - 7  | NNW                               | 7      | oq                | *        | 58             | 39          | 0.58           |                     |  |
| Oxford   | 29.52 | 49                                 | SW              | 2      | r                 | 29.32    | - .36                           | 40                                | 39          | - 7  | NNW                               | 3      | cq                | *        | 58             | 36          | 0.85           |                     |  |
| Cambridge  | 29.59 | 46                                 | Z               | 0      | o                 | 29.14    | - .49                           | 41                                | 41          | - 5  | NW                                | 4      | r                 | *        | 56             | 39          | 0.60           |                     |  |
| Yarmouth   | 29.62 | 47                                 | WSW             | 1      | bc                | 28.89    | - .73                           | 49                                | 49          | + 3  | WSW                               | 2      | om                | 4        | 54             | 45          | 0.59           |                     |  |
| Cuxhaven   | 29.67 | 37                                 | SW              | 4      | f                 | 29.53    | - .18                           | 44                                | 44          | + 4  | SSE                               | 5      | r                 | *        | 46             | 37          | 0.22           |                     |  |
| Berlin   | 29.84 | 40                                 | SW              | 2      | o                 | 29.70    | - .09                           | 37                                | 36          | + 3  | SSE                               | 3      | c                 | *        | 43             | ?           | 0.04           |                     |  |
| Wiesbaden  | *     | *                                  | *               | *      | *                 | 29.87    | ?                               | 43                                | 42          | + 4  | Z                                 | 0      | r                 | *        | 46             | ?           | 0.20           |                     |  |
| Munich   | 29.94 | 39                                 | SW              | 1      | o                 | 29.76    | - .20                           | 36                                | 35          | - 1  | SE                                | 3      | o                 | *        | 46             | 32          | 0.04           |                     |  |
| GERMANY.   |       |                                    |                 |        |                   |          |                                 |                                   |             |      |                                   |        |                   |          |                |             |                |                     |  |
| The Helder   | 29.64 | 49                                 | SSW             | 3      | c                 | 29.02    | - .65                           | 46                                | 45          | - 1  | SE                                | 4      | r                 | 3        | 52             | 45          | 0.28           |                     |  |
| Brussels   | *     | *                                  | *               | *      | *                 | 29.19    | - .65                           | 51                                | 46          | 0    | SW                                | 11     | o                 | *        | 53             | 46          | 0.20           |                     |  |
| Cape Gris Nez  | 29.68 | 50                                 | SW              | 8      | r                 | ?        | ?                               | 50                                | 49          | - 2  | SW                                | 12     | r                 | 8        | 54             | 45          | 0.75           |                     |  |
| Paris  | 29.82 | 48                                 | S               | 3      | o                 | 29.55    | - .39                           | 50                                | 45          | + 7  | WSW                               | 7      | bc                | *        | 49             | ?           | 0.08           |                     |  |
| Brest  | *     | *                                  | *               | *      | *                 | *        | *                               | *                                 | *           | *    | *                                 | *      | *                 | *        | *              | *           | *              | *                   |  |
| Lorient  | 29.67 | 54                                 | SW              | 8      | r                 | 29.73    | - .15                           | 52                                | 46          | - 3  | W                                 | 7      | o                 | 7        | 55             | 50          | 0.32           |                     |  |
| Rochefort  | 29.86 | 54                                 | S               | 4      | o                 | 29.89    | - .07                           | 50                                | 50          | + 5  | W                                 | 7      | bc                | 2        | 57             | 48          | 0.24           |                     |  |
| Belfort  | *     | *                                  | *               | *      | *                 | *        | *                               | *                                 | *           | *    | *                                 | *      | *                 | *        | *              | *           | *              | *                   |  |
| Lyons  | 30.00 | 48                                 | NNW             | 1      | o                 | 29.86    | - .22                           | 54                                | 50          | + 17 | S                                 | 5      | r                 | *        | ?              | ?           | -              |                     |  |
| Nice   | 30.01 | 64                                 | S               | 1      | bc                | ?        | ?                               | 53                                | 50          | + 5  | Z                                 | 0      | o                 | 3        | ?              | 43          | -              |                     |  |
| Perpignan  | 29.96 | 49                                 | NE              | 1      | b                 | 29.96    | - .12                           | 48                                | 48          | + 7  | Z                                 | 0      | o                 | *        | 69             | ?           | -              |                     |  |
| Biarritz   | 29.80 | 64                                 | SSE             | 4      | o                 | 29.96    | - .09                           | 66                                | 55          | + 10 | W                                 | 7      | r                 | 5        | 66             | ?           | 0.16           |                     |  |
| Corunna  | *     | *                                  | *               | *      | *                 | 30.02    | - .02                           | 57                                | 50          | - 4  | WSW                               | 1      | b                 | 5        | 63             | 48          | 0.55           |                     |  |
| Lisbon   | 30.12 | 62                                 | SW              | 5      | o                 | 30.07    | - .06                           | 62                                | 61          | + 2  | SW                                | 7      | o                 | 5        | 64             | ?           | 0.16           |                     |  |

For Explanation of Columns, see p. 4.



# WEATHER

# CHARTS

for 8 a.m. on

Sunday

30<sup>th</sup> October

1887.

## BAROMETER, WIND & SEA.

(Explanation of Map)

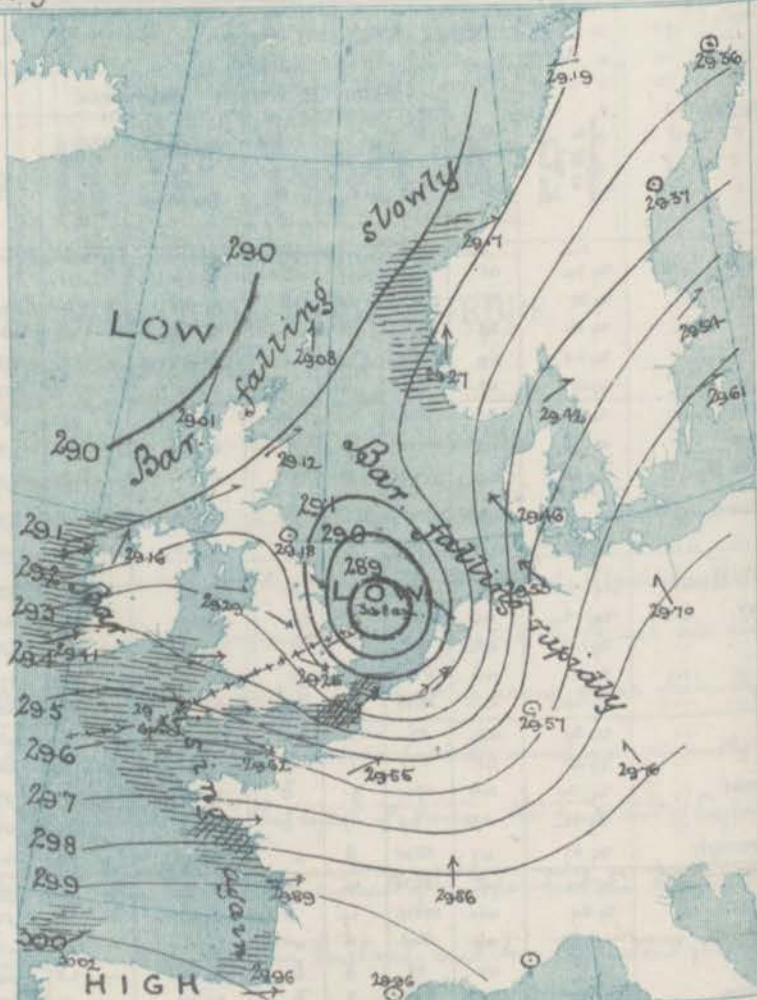
**Barometer** — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.  
**Wind** — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —  
 — = forces above 10, — = forces 8 to 10,  
 — = forces 5 to 7, — = 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 10 Years 1871—1880.

| STATIONS.     | MEAN READINGS. |
|---------------|----------------|
| Sumburgh Head | 29.685         |
| Stornoway     | 29.707         |
| Wick          | 29.718         |
| Nairn         | 29.738         |
| Aberdeen      | 29.748         |
| Leith         | 29.780         |
| Shields       | 29.821         |
| York          | 29.880         |
| Ardrossan     | 29.749         |
| Donaghadee    | 29.805         |
| Holyhead      | 29.830         |
| Liverpool     | 29.848         |
| Valencia      | 29.842         |
| Roche's Point | 29.843         |
| Pembroke      | 29.847         |
| Scilly        | 29.877         |
| Hurst Castle  | 29.894         |
| Dover         | 29.907         |
| LONDON        | 29.902         |
| Oxford        | 29.891         |
| Cambridge     | 29.894         |
| Yarmouth      | 29.889         |



## TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

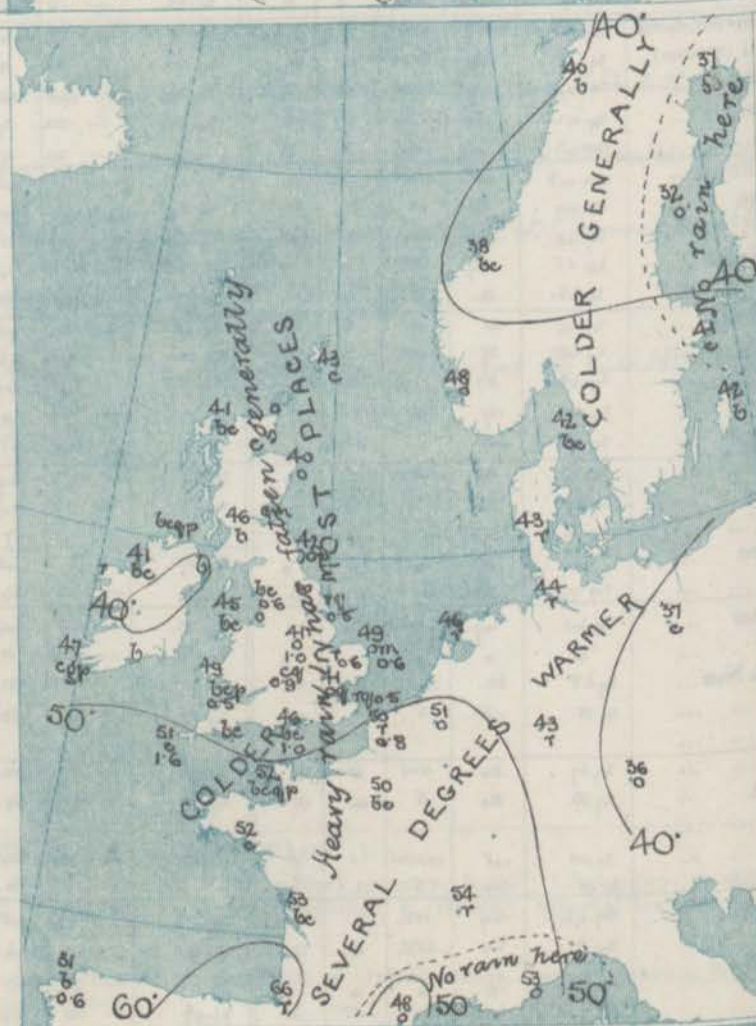
**Temperature** — Isotherms are drawn for each 10° Changes since previous morning are stated in words.  
**Weather** — is shown by Letters of the Beaufort Scale.  
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more,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

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of October

| STATIONS      | TEMPERATURE   |               |           |           | RAINFALL<br>(Inches) |
|---------------|---------------|---------------|-----------|-----------|----------------------|
|               | Daily<br>Max. | Daily<br>Min. | At 8 a.m. | At 4 p.m. |                      |
| Sumburgh Head | 49.5          | 41.6          | 45.9      | 44.4      | 4.83                 |
| Stornoway     | 50.2          | 38.8          | 45.1      | 43.9      | 4.94                 |
| Wick          | 51.8          | 40.0          | 46.0      | 44.3      | 2.94                 |
| Nairn         | 51.4          | 40.7          | 44.6      | 42.5      | 2.38                 |
| Aberdeen      | 52.1          | 41.3          | 45.5      | 43.5      | 2.88                 |
| Leith         | 55.3          | 41.9          | 46.7      | 45.1      | 1.94                 |
| Shields       | 53.2          | 43.1          | 47.3      | 45.5      | 2.46                 |
| York          | 55.2          | 40.9          | 46.0      | 44.7      | 2.64                 |
| Ardrossan     | 53.7          | 43.2          | 47.7      | 45.4      | 4.81                 |
| Donaghadee    | 53.2          | 43.2          | 47.8      | 46.8      | 3.35                 |
| Holyhead      | 54.9          | 47.5          | 50.4      | 48.6      | 4.53                 |
| Liverpool     | 54.0          | 44.9          | 48.0      | 46.2      | 3.62                 |
| Valencia      | 56.7          | 46.5          | 51.3      | 49.1      | 6.09                 |
| Roche's Point | 55.0          | 46.4          | 50.4      | 48.6      | 4.17                 |
| Pembroke      | 55.1          | 48.4          | 51.5      | 49.4      | 4.13                 |
| Scilly        | 56.8          | 50.7          | 53.9      | 52.0      | 3.84                 |
| Hurst Castle  | 57.7          | 46.8          | 51.5      | 50.5      | 3.24                 |
| Dover         | 56.2          | 47.8          | 51.5      | 49.4      | 3.28                 |
| LONDON        | 57.1          | 43.5          | 48.4      | 46.9      | 2.74                 |
| Oxford        | 55.7          | 42.9          | 47.0      | 45.8      | 2.72                 |
| Cambridge     | 57.0          | 41.6          | 46.6      | 45.7      | 2.36                 |
| Yarmouth      | 54.9          | 45.1          | 49.5      | 48.2      | 2.07                 |

NOTE — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 10 years 1866—85





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.0 in. over Spain.  
Lowest, 28.9 in. and less, in a small but deep depression the centre of which lies to the E<sup>W</sup> of Yarmouth, relatively low, 29.0 in. and less in a large area lying off the NW of Scotland.  
Gradients steep over Belgium, the southeast of England and the northeast of France.

## TEMPERATURE

Highest, 66° at Biarritz, 62° at Lisbon, 54° at Lyons, 53° at Rochefort and Nice and 52° at Jersey and Lorient.  
Lowest, 32° at Helsingfors, 36° at Munich, 37° at Haparanda, Kaini, and Berlin, and 38° at Christiansund and Donaghadee.

## WIND

Light to fresh from SW or S. on our western and northern coasts.  
Strong to gale from W. over the south of England, the Channel, and the west and north of France.  
Severe SW gale blowing in Belgium; moderate or fresh SE winds in Germany, and the south of Denmark.

## WEATHER

Cloudy in most places, with rain in the Netherlands, North Germany and the southeast of England.  
Since yesterday heavy rain has fallen over England and France, the largest amounts being 1.6 in. at Seilly, 1.0 in. at Loughborough and Hunt Cote, 0.9 in. at Oxford and 0.8 in. at Cape Greig. Solar and lunar halos were seen yesterday in many parts of the Kingdom.

## SEA

Very high at C. Greig, high at Lorient, and rough in the south and southeast generally.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The general conditions remain very unsettled, for although the deep depression in the southeast is passing away from our coasts a new disturbance [apparently shallow] is appearing off the northwest of Scotland. No material improvement in the weather is likely just at present.

## FORECASTS

For the 24 hours ending at NOON on 31<sup>st</sup> OCT<sup>r</sup> 1887.

### DISTRICTS.

### FORECASTS.

### DISTRICTS.

### FORECASTS.

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



NONE ISSUED

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

### WARNINGS

NONE ISSUED.

The south cone was hoisted last evening in districts 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.  | Dry. | Wet. | Wind. | Wes. | Sea. |   | Bar.          | Dry.  | Wet. | Wind. | Wes. | Sea. |      |   |
|-------------------|-------|------|------|-------|------|------|---|---------------|-------|------|-------|------|------|------|---|
| Skudesnaes ...    | 29.26 | 48   | 45   | SSE   | 7    | 0    | 5 | Holyhead ...  | 29.54 | 51   | 46    | SW   | 4    | brng | 5 |
| Sumburgh Head ... | 29.11 | 48   | 45   | W     | 1    | 0    | 2 | Valencia ...  | 29.30 | 50   | 47    | SW   | 2    | 0    | 4 |
| Stornoway ...     | 29.12 | 48   | 45   | SW    | 4    | 0    | 3 | Scilly ...    | 29.40 | 50   | 51    | SW   | 4    | 0    | 6 |
| Aberdeen ...      | 29.22 | 49   | 43   | WSW   | 4    | 0    | 1 | Dungeness ... | 29.70 | 54   | 51    | WSW  | 4    | 0    | 4 |
| Shields ...       | 29.39 | 51   | 45   | W     | 4    | 0    | 2 | London ...    | 29.67 | 56   | 48    | SW   | 2    | 0    | * |
| Ardrossan ...     | 29.35 | 47   | 45   | W     | 4    | 0    | 3 | Yarmouth ...  | 29.64 | 53   | 47    | SW   | 3    | 0    | 2 |
| Malin Head ...    | 29.30 | 46   | 44   | WSW   | 4    | 0    | 4 | Jersey ...    | 29.75 | 55   | 50    | SW   | 3    | 0    | 3 |
| Mullaghmore ...   | 29.39 | 48   | 45   | WSW   | 6    | 0    | 6 | Rochefort ... | 29.99 | 55   | 54    | SSE  | 4    | 0    | 2 |
| Belmullet ...     | 29.39 | 50   | 45   | WSW   | 3    | 0    | * |               |       |      |       |      |      |      |   |

## GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS. 29<sup>th</sup>

The reports for yesterday morning showed that although the highest pressures of all (30.3 in. and upwards) were reported over the south of Russia relatively high readings existed over the whole of Southern and Eastern Europe. The lowest pressures were reported in a large area lying to the northward of our Islands and the W<sup>est</sup> of Norway, but shallow extridiary depressions were found over various parts of the United Kingdom. Fresh SW<sup>th</sup> breezes prevailed over the whole of Northern and Northwestern Europe, but in the south of France the wind was NW<sup>th</sup> and in Italy N<sup>th</sup>, while in Spain it was very variable. The weather was fine in Algeria and the south of France, but cloudy elsewhere, with showers in many parts of our Islands, as well as in Scandinavia, Denmark, and the northern parts of Germany and France. Temperature had fallen a few degrees over the United Kingdom, as well as in Russia, but risen elsewhere. Readings ranged from 55° and upwards over Spain, Algeria, the west of France and the south of Italy to 32° or less in Russia. The highest individual readings were 66° at Tunis, 63° at Malta and Algiers, 61° at Brindisi, and 60° at Barcelona and Lisbon; the lowest were 26° at Charkov, 29° at Archangel, 30° at Kiew, 33° at Moscow, Warsaw, and Nicolaiiff, and 34° at Carrel and Berlin.

In the course of the day the barometer fell quickly over the southern part of our Islands, and at night the centre of a deep depression moved rapidly in an east-north-easterly direction across the south of England. Heavy rain fell as the disturbance advanced, but no serious increase of wind took place until the centre had passed over when strong W<sup>th</sup> gales were experienced over the Channel and severe gales over the north of France.

## EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for Monday 31<sup>st</sup> October

1887.

Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

|                            | + YESTERDAY EVENING.               |                 |       |                   |          |   | 8 A.M. TO DAY.                    |             |      |                                   |       |                   |          |                |             |      | PAST 24 HOURS.      |  |  |
|----------------------------|------------------------------------|-----------------|-------|-------------------|----------|---|-----------------------------------|-------------|------|-----------------------------------|-------|-------------------|----------|----------------|-------------|------|---------------------|--|--|
| STATIONS.                  | Barometer at 32° F. and Sea Level. | Temp. in Shade. | WIND. |                   | Weather. | Barometer. Reading at 32° F. and Sea Level. | Difference from 8 a.m. yesterday. | SHADE TEMP. |      |                                   | WIND. |                   | Weather. | Sea. (0 to 9.) | SHADE TEMP. |      | Amount of Rainfall. |  |  |
|                            |                                    |                 | Dir.  | Force. (0 to 12.) |          |   |                                   | Dry.        | Wet. | Difference from 8 a.m. yesterday. | Dir.  | Force. (0 to 12.) |          |                | Max.        | Min. |                     |  |  |
| SCANDINAVIA.               |                                    |                 |       |                   |          |   |                                   |             |      |                                   |       |                   |          |                |             |      |                     |  |  |
| Haparanda ..               | 29.43                              | 37              | Z     | 0                 | 0        | 29.45                                       | +09                               | 36          | 36   | -1                                | SE    | 2                 | 0        | *              | 39          | 34   | 0.08                |  |  |
| Hernösand ...              | 29.38                              | 41              | Z     | 0                 | 0        | 29.23                                       | -14                               | 41          | 40   | +9                                | NE    | 4                 | r        | *              | 43          | 30   | 0.04                |  |  |
| Stockholm ...              | 29.39                              | 44              | SE    | 2                 | r        | 29.03                                       | -51                               | 44          | 43   | +3                                | S     | 4                 | 0        | *              | 46          | 36   | 0.32                |  |  |
| Wisby ...                  | 29.35                              | 44              | S     | 6                 | r        | 29.27                                       | -34                               | 47          | 43   | +5                                | NEW   | 6                 | 0        | *              | 48          | 39   | 0.24                |  |  |
| Bodö ...                   | 29.27                              | 36              | ESE   | 4                 | b        | 29.26                                       | +07                               | 35          | 33   | -5                                | ESE   | 4                 | b        | 2              | 40          | 34   | -                   |  |  |
| Christiansund...           | 29.18                              | 39              | ESE   | 2                 | b        | 29.12                                       | -05                               | 38          | 36   | 0                                 | SE    | 1                 | 0        | 4              | 43          | 36   | -                   |  |  |
| Skudesnaes ...             | 29.11                              | 44              | ESE   | 2                 | r        | 29.15                                       | -12                               | 44          | 42   | -4                                | Z     | 0                 | r        | 3              | 48          | 43   | -                   |  |  |
| Christiania Fjord (Færder) | 29.10                              | 44              | E     | 6                 | r        | 29.12                                       | -25                               | 41          | 40   | -6                                | NW    | 2                 | 0        | 2              | 49          | 39   | 0.32                |  |  |
| Skagen (The Seaw)          | 28.93                              | 44              | SE    | 5                 | 0        | 29.19                                       | -23                               | 43          | 42   | +1                                | W     | 4                 | 0        | 3              | 45          | 41   | 0.59                |  |  |
| Faro ...                   | 29.19                              | 46              | WSW   | 7                 | c        | 29.38                                       | -08                               | 46          | 43   | +3                                | WSW   | 5                 | bc       | *              | 48          | 43   | 0.55                |  |  |
| BRITISH ISLANDS.           |                                    |                 |       |                   |          |   |                                   |             |      |                                   |       |                   |          |                |             |      |                     |  |  |
| Sumburgh Head              | 29.04                              | 46              | Z     | 0                 | c        | 29.06                                       | -02                               | 41          | 39   | -2                                | Z     | 0                 | 0        | 1              | 47          | 39   | -                   |  |  |
| Stornoway ...              | 28.93                              | 40              | NW    | 4                 | 0        | 29.13                                       | +12                               | 40          | 40   | -1                                | NW    | 4                 | 0        | 4              | 45          | 37   | 0.31                |  |  |
| Wick ...                   | 29.01                              | 46              | SW    | 2                 | bc       | 29.00                                       | -05                               | 40          | 40   | -3                                | NW    | 2                 | r        | 0              | 48          | 37   | 0.02                |  |  |
| Nairn ...                  | 29.00                              | 42              | Z     | 0                 | c        | 29.07                                       | -02                               | 40          | 39   | +3                                | SW    | 2                 | 0        | 1              | 48          | 35   | -                   |  |  |
| Aberdeen...                | 29.06                              | 42              | WSW   | 3                 | b        | 29.17                                       | +05                               | 38          | 32   | -7                                | W     | 2                 | b        | 0              | 49          | 31   | -                   |  |  |
| Leith ...                  | 29.12                              | 43              | W     | 3                 | bc       | 29.21                                       | +05                               | 41          | 39   | -1                                | NW    | 1                 | em       | *              | 50          | 39   | 0.05                |  |  |
| Shields ...                | 29.22                              | 47              | SW    | 2                 | c        | 29.29                                       | +11                               | 42          | 40   | 0                                 | SW    | 2                 | 0        | 2              | 50          | 39   | -                   |  |  |
| Spurn Head ...             | 29.35                              | 45              | SW    | 5                 | b        | 29.38                                       | +34                               | 40          | 39   | -2                                | SW    | 4                 | b        | 3              | 48          | 38   | 0.04                |  |  |
| York ...                   | 29.31                              | 44              | SSW   | 1                 | b        | 29.36                                       | +17                               | 40          | 39   | -1                                | SSW   | 3                 | r        | *              | 51          | 39   | 0.05                |  |  |
| Loughborough               | 29.41                              | 44              | WSW   | 4                 | b        | 29.44                                       | +32                               | 39          | 37   | -2                                | SW    | 4                 | b        | *              | 53          | 37   | -                   |  |  |
| GERMANY.                   |                                    |                 |       |                   |          |   |                                   |             |      |                                   |       |                   |          |                |             |      |                     |  |  |
| Ardsrossan ...             | 29.12                              | 46              | WSW   | 3                 | 0        | 29.22                                       | +06                               | 43          | 42   | -3                                | NW    | 1                 | 0        | 3              | 49          | 42   | 0.27                |  |  |
| Malin Head ...             | 29.12                              | 42              | WSW   | 4                 | 0 qpr    | 29.31                                       | +23                               | 44          | 43   | +2                                | NW    | 4                 | 0 qpr    | 4              | 45          | 40   | 0.28                |  |  |
| Mullaghmore ...            | 29.20                              | 45              | WNW   | 6                 | p        | 29.44                                       | +28                               | 46          | 42   | +5                                | NW    | 6                 | 0        | 6              | 48          | 40   | 0.52                |  |  |
| Belmullet ...              | 29.22                              | 45              | WNW   | 7                 | 0        | 29.51                                       | +35                               | 44          | 42   | 0                                 | NW    | 2                 | 0        | *              | 49          | 42   | 0.54                |  |  |
| Donaghadee ...             | 29.20                              | 43              | SW    | 5                 | c        | 29.32                                       | +10                               | 42          | 41   | +4                                | W     | 5                 | r        | 3              | 49          | 38   | 0.03                |  |  |
| FRANCE & NETHERLANDS.      |                                    |                 |       |                   |          |   |                                   |             |      |                                   |       |                   |          |                |             |      |                     |  |  |
| Barrow-in-Furness          | 29.26                              | 46              | WSW   | 6                 | bc       | 29.31                                       | +07                               | 45          | 42   | +3                                | WSW   | 5                 | bc p     | *              | 48          | 40   | 0.21                |  |  |
| Liverpool (Bidston)        | 29.33                              | 42              | WSW   | 5                 | b        | 29.39                                       | +13                               | 43          | 41   | +1                                | WSW   | 4                 | 0        | 4              | 49          | 41   | 0.02                |  |  |
| Holyhead ...               | 29.34                              | 44              | WSW   | 5                 | c qpr    | 29.41                                       | +12                               | 45          | 42   | 0                                 | W     | 5                 | c q      | 5              | 50          | 44   | 0.02                |  |  |
| Parsonstown ...            | 29.35                              | 41              | S     | 2                 | c        | 29.53                                       | +20                               | 40          | 38   | +1                                | SW    | 2                 | b        | *              | 46          | 37   | 0.36                |  |  |
| Valencia ...               | 29.49                              | 45              | WNW   | 6                 | 0 qpr    | 29.68                                       | +27                               | 49          | 44   | +2                                | NW    | 5                 | c qpr    | 5              | 51          | 41   | 0.31                |  |  |
| Roche's Point...           | 29.46                              | 45              | W     | 4                 | bc       | 29.58                                       | +16                               | 45          | 42   | +2                                | WNW   | 6                 | bc p     | 4              | 48          | 41   | 0.18                |  |  |
| Pembroke ...               | 29.46                              | 49              | WSW   | 5                 | bc       | 29.50                                       | +11                               | 45          | 45   | -4                                | W     | 6                 | bc q     | 6              | 51          | 43   | 0.18                |  |  |
| Scilly ...                 | 29.54                              | 50              | W     | 8                 | 0        | 29.66                                       | +13                               | 48          | 46   | -3                                | WNW   | 8                 | 0        | 6              | 52          | 43   | 0.10                |  |  |
| Prawle Point ...           | 29.60                              | 50              | WSW   | 7                 | c        | 29.60                                       | +10                               | 44          | 42   | -4                                | W     | 6                 | c p      | 5              | 52          | 38   | 0.25                |  |  |
| Jersey ...                 | 29.71                              | 50              | W     | 5                 | c        | 29.65                                       | +03                               | 45          | 42   | -7                                | W     | 6                 | 0        | 5              | 55          | 44   | 0.79                |  |  |
| Hurst Castle ...           | 29.59                              | 50              | W     | 6                 | bc       | 29.55                                       | +12                               | 44          | 42   | -2                                | W     | 4                 | bc       | 4              | 53          | 40   | -                   |  |  |
| Dungeness ...              | 29.55                              | 50              | W     | 5                 | b        | 29.52                                       | +40                               | 47          | 44   | +1                                | WSW   | 4                 | 0        | 4              | 55          | 43   | 0.18                |  |  |
| London ...                 | 29.61                              | 48              | W     | 4                 | c pr     | 29.53                                       | +28                               | 41          | 39   | 0                                 | W     | 2                 | 0        | *              | 52          | 38   | 0.01                |  |  |
| Oxford ...                 | 29.53                              | 41              | WSW   | 3                 | bc       | 29.51                                       | +19                               | 40          | 38   | 0                                 | SW    | 3                 | bc       | *              | 51          | 37   | 0.05                |  |  |
| Cambridge ...              | 29.43                              | 44              | SW    | 1                 | b        | 29.49                                       | +33                               | 37          | 36   | -4                                | SW    | 1                 | bc       | *              | 52          | 34   | -                   |  |  |
| Yarmouth ...               | 29.42                              | 46              | WSW   | 5                 | b        | 29.47                                       | +38                               | 40          | 39   | -9                                | SW    | 3                 | b        | 3              | 49          | 36   | 0.01                |  |  |
| Cuxhaven ...               | 29.16                              | 41              | WSW   | 9                 | r        | 29.54                                       | +01                               | 42          | 41   | -2                                | SW    | 4                 | b        | *              | 47          | 40   | 0.36                |  |  |
| Berlin ...                 | 29.62                              | 49              | SW    | 2                 | c        | 29.76                                       | +06                               | 41          | 40   | +4                                | SW    | 2                 | bc       | *              | 55          | 40   | 0.08                |  |  |
| Wiesbaden ...              | *                                  | *               | *     | *                 | *        | 29.77                                       | +20                               | 43          | 42   | 0                                 | S     | 1                 | 0        | *              | 56          | 39   | 0.08                |  |  |
| Munich ...                 | 29.91                              | 47              | SW    | 2                 | 0        | 29.91                                       | +15                               | 42          | 41   | +6                                | S     | 2                 | 0        | *              | 54          | 36   | -                   |  |  |
| FRANCE & NETHERLANDS.      |                                    |                 |       |                   |          |   |                                   |             |      |                                   |       |                   |          |                |             |      |                     |  |  |
| The Helder ...             | 29.47                              | 48              | WSW   | 7                 | 0        | 29.48                                       | +46                               | 46          | 44   | 0                                 | SW    | 3                 | r        | 3              | 50          | 45   | 0.16                |  |  |
| Brussels ...               | *                                  | *               | *     | *                 | *        | 29.62                                       | +43                               | 45          | 44   | -6                                | SW    | 7                 | 0        | *              | 53          | 42   | 0.16                |  |  |
| Cape Gris Nez...           | 29.60                              | 46              | W     | 9                 | r        | 29.49                                       | ?                                 | 46          | 46   | -4                                | W     | 7                 | r        | 5              | 54          | 46   | 0.24                |  |  |
| Paris ...                  | 29.80                              | 49              | SW    | 4                 | bc       | 29.72                                       | +17                               | 44          | 43   | -6                                | SW    | 3                 | bc       | *              | 58          | 43   | 0.12                |  |  |
| Brest ...                  | 29.77                              | 52              | WNW   | 7                 | 0        | 29.78                                       | ?                                 | 50          | 47   | -3                                | WNW   | 8                 | 0        | 6              | 57          | 45   | -                   |  |  |
| Lorient ...                | 29.80                              | 54              | WSW   | 5                 | bc       | 29.78                                       | +05                               | 46          | 43   | -6                                | NW    | 9                 | 0        | 7              | 55          | 45   | 0.12                |  |  |
| Rochefort ...              | 29.95                              | 53              | WSW   | 5                 | b        | 29.94                                       | +05                               | 50          | 48   | -3                                | NW    | 5                 | bc       | 5              | 57          | 36   | 0.39                |  |  |
| Belfort ...                | *                                  | *               | *     | *                 | *        | *   | *                                 | *           | *    | *                                 | *     | *                 | *        | *              | *           | *    | *                   |  |  |
| Lyons ...                  | 29.97                              | 51              | WNW   | 1                 | c        | 29.91                                       | +05                               | 40          | 39   | -14                               | SSW   | 1                 | 0        | *              | 59          | 39   | 0.04                |  |  |
| Nice ...                   | 29.97                              | 52              | E     | 3                 | f        | 29.91                                       | ?                                 | 51          | 49   | -2                                | E     | 1                 | bc       | 3              | ?           | ?    | 0.23                |  |  |
| Perpignan ...              | 30.01                              | 56              | WSW   | 1                 | 0        | 29.92                                       | -04                               | 53          | 50   | ?                                 | NW    | 1                 | r        | *              | 60          | 50   | -                   |  |  |
| Biarritz ...               | 30.01                              | 55              | Z     | 0                 | b        | 30.00                                       | +04                               | 52          | 48   | -14                               | WNW   | 7                 | r        | 5              | ?           | 50   | 0.08                |  |  |
| Corunna ...                | *                                  | *               | *     | *                 | *        | *   | *                                 | *           | *    | *                                 | *     | *                 | *        | *              | *           | *    | *                   |  |  |
| Lisbon ...                 | 30.17                              | 59              | WNW   | 0                 | 0        | 30.17                                       | +10                               | 57          | 55   | -5                                | WSW   | 4                 | 0        | 5              | 64          | 57   | 0.12                |  |  |

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on Monday, 31<sup>st</sup> October.

1887.

## BAROMETER, WIND & 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.

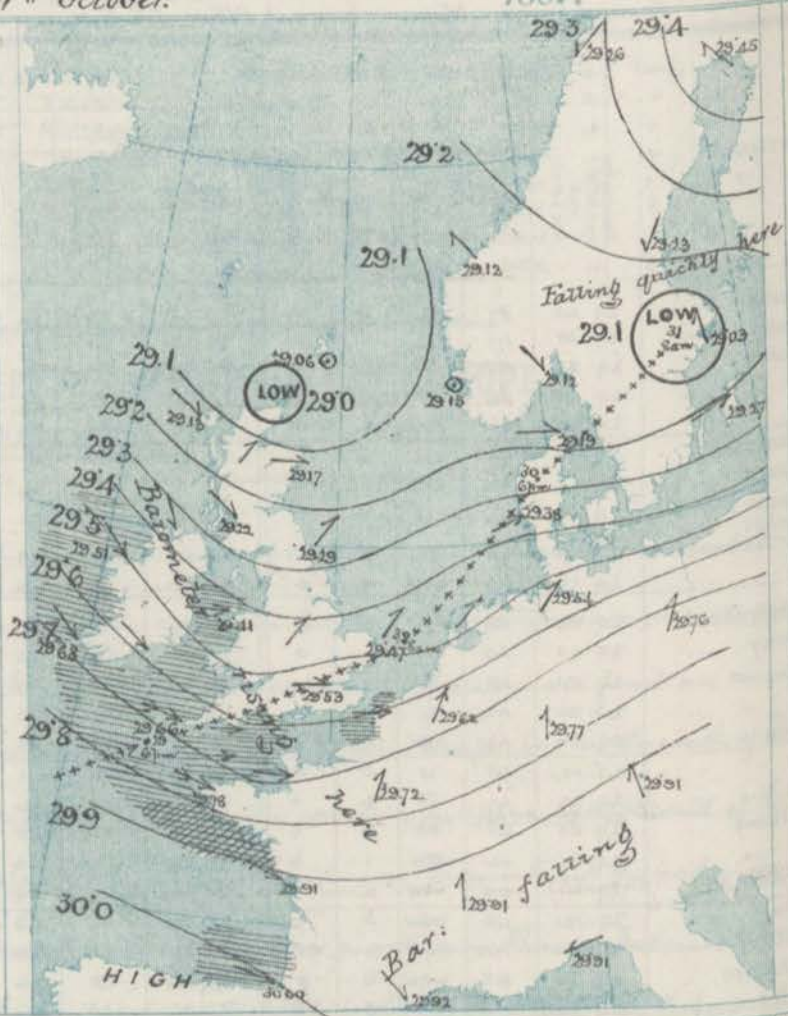
**Sea Disturbance**—where considerable is shown thus

— Rough. — High.

## MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of October  
During the 10 Years 1871—1880.

| STATIONS.     | MEAN READINGS. |
|---------------|----------------|
|               | in.            |
| Sumburgh Head | 29.685         |
| Stornoway     | 29.707         |
| Wick          | 29.715         |
| Nairn         | 29.738         |
| Aberdeen      | 29.748         |
| Leith         | 29.780         |
| Shields       | 29.821         |
| York          | 29.860         |
| Ardrossan     | 29.749         |
| Donaghadee    | 29.805         |
| Holyhead      | 29.830         |
| Liverpool     | 29.848         |
| Valencia      | 29.842         |
| Roche's Point | 29.843         |
| Pembroke      | 29.847         |
| Scilly        | 29.877         |
| Hurst Castle  | 29.894         |
| Dover         | 29.907         |
| LONDON        | 29.902         |
| Oxford        | 29.801         |
| Cambridge     | 29.894         |
| Yarmouth      | 29.889         |



## 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.

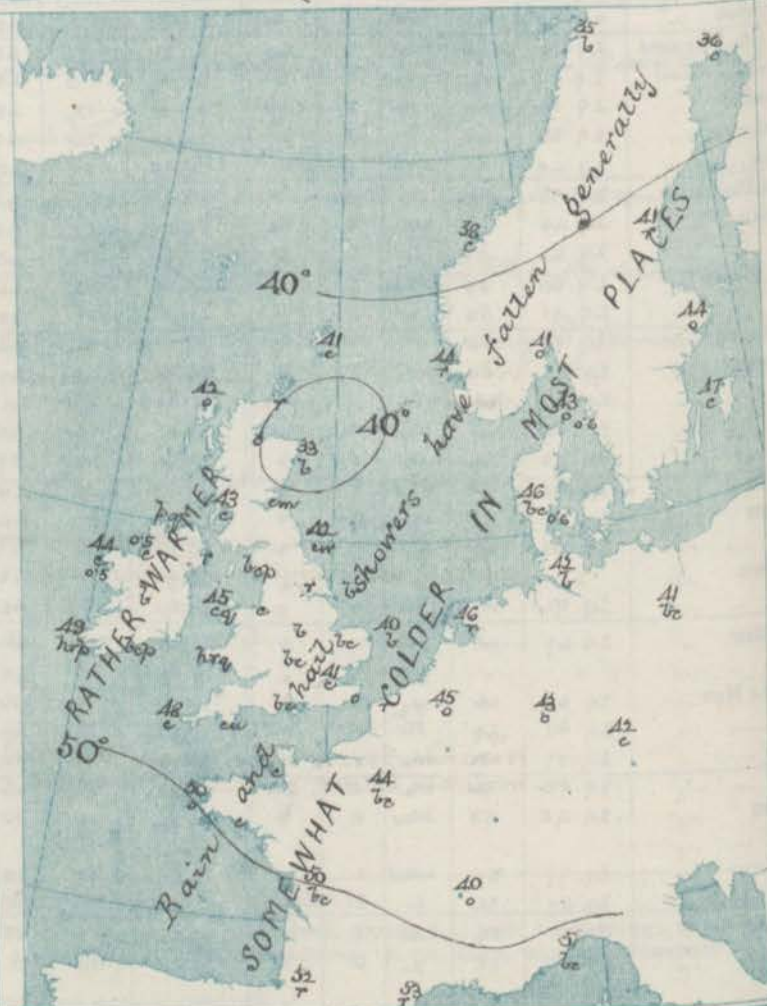
**Rainfall**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of October.

| STATIONS      | TEMPERATURE   |               |                   |      | RAINFALL<br>(Inches) |
|---------------|---------------|---------------|-------------------|------|----------------------|
|               | Daily<br>Max. | Daily<br>Min. | At 8 a.m.<br>Dry. | Wet. |                      |
| Sumburgh Head | 40.5          | 41.6          | 45.9              | 44.4 | 4.33                 |
| Stornoway     | 50.2          | 38.8          | 45.1              | 43.9 | 4.94                 |
| Wick          | 51.8          | 40.0          | 46.0              | 44.3 | 2.94                 |
| Nairn         | 51.4          | 40.7          | 44.6              | 42.5 | 2.38                 |
| Aberdeen      | 52.1          | 41.3          | 45.5              | 43.5 | 2.88                 |
| Leith         | 55.3          | 41.9          | 46.7              | 45.1 | 1.94                 |
| Shields       | 53.2          | 43.1          | 47.3              | 45.5 | 2.46                 |
| York          | 55.2          | 40.9          | 46.0              | 44.7 | 2.64                 |
| Ardrossan     | 53.7          | 43.2          | 47.7              | 45.4 | 4.31                 |
| Donaghadee    | 53.2          | 43.2          | 47.8              | 46.8 | 8.35                 |
| Holyhead      | 54.9          | 47.5          | 50.4              | 48.6 | 4.53                 |
| Liverpool     | 54.0          | 44.9          | 48.0              | 46.2 | 3.62                 |
| Valencia      | 56.7          | 46.5          | 51.3              | 49.1 | 6.09                 |
| Roche's Point | 55.6          | 46.4          | 50.4              | 48.6 | 4.17                 |
| Pembroke      | 55.1          | 48.4          | 51.5              | 49.4 | 4.13                 |
| Scilly        | 56.8          | 50.7          | 53.9              | 52.0 | 3.84                 |
| Hurst Castle  | 57.7          | 46.8          | 51.5              | 50.5 | 3.24                 |
| Dover         | 56.2          | 47.8          | 51.5              | 49.4 | 3.28                 |
| LONDON        | 57.1          | 43.5          | 48.4              | 46.9 | 2.74                 |
| Oxford        | 55.7          | 42.9          | 47.0              | 45.8 | 2.72                 |
| Cambridge     | 57.0          | 41.6          | 46.6              | 45.7 | 2.36                 |
| Yarmouth      | 54.9          | 45.1          | 49.5              | 48.2 | 2.97                 |

NOTE—The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 10 years 1866—85





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.17 in: at Lisbon, 30.0 in: and more, over Spanish Peninsula generally, and also over northern part of Adriatic Sea.  
Lowest, about 29.0 in: in a depression over the Orkneys, and in another over the South of Sweden. The latter appears to be identical with the one noticed in the SE. on Sunday morning.  
Gradients, moderate but irregular. Barometer rising west and south, falling northeast.

## TEMPERATURE

Highest, 57° at Lisbon, 53° at Perpignan, 51° at Nice, 50° at Rheims, and 48° at Valencia.  
Lowest, 35° at Porto, 36° at Havana, 38° at Christiania, 38° to 40° over our Midland counties, 40° at Lyons, 41° at Berlin.  
It had fallen considerably in the north and east and over France, risen in the west, since yesterday.

## WIND

Light E in the north of Scandinavia. Moderate to fresh SW over the North Sea and England.  
Strong W in English and Irish Channels. (NW gale at Scilly and over Brittany)  
Fresh to strong NW in Ireland, and moderate NW in west of Scotland.

## WEATHER

Very variable - clear in some places, showery in others, over the British Isles, North Sea and Scandinavia.  
Much rain fell yesterday on the eastern shore of the North Sea; hail and rain showers over the British Isles.

## SEA

Very rough over the Bay of Biscay - rough in both Channels, slight over the North Sea, smooth in the far north.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

It is probable that as the very shallow depressions now moving over our Islands pass off the wind will become NW very generally, with some local showers, colder weather, and probably ground frost at night.

## FORECASTS

for the 24 hours ending at NOON on 1<sup>st</sup> November 1887.

### DISTRICTS.

### FORECASTS.

|   |                  |   |
|---|------------------|---|
| 0 | SCOTLAND NORTH   | W <sup>2</sup> and NW <sup>2</sup> winds, changeable, some showers.   |
| 1 | SCOTLAND EAST    | -----D°-----D°-----D°-----  |
| 2 | ENGLAND N.E.     | SW <sup>2</sup> to NW <sup>2</sup> winds, moderate, some showers, colder. Frost inland in early morning.        |
| 3 | ENGLAND EAST     | -----D°-----D°-----D°-----  |
| 4 | MIDLAND COUNTIES | -----D°-----D°-----D°-----  |
| 5 | ENGLAND SOUTH    | W <sup>2</sup> winds, fresh or strong, showery; then NW <sup>2</sup> , moderate, colder, ground frost in night. |

### DISTRICTS.

### FORECASTS.

|          |               |   |
|----------|---------------|---|
| 6        | SCOTLAND WEST | NW <sup>2</sup> winds, fresh, some showers.                             |
| 7        | ENGLAND N.W.  | -----D°-----D°-----D°-----  |
| 8        | ENGLAND S.W.  | NW <sup>2</sup> winds, strong, showery, cold.                           |
| 9        | IRELAND NORTH | NW <sup>2</sup> winds, moderating, showery to fair, very cold at night. |
| 10       | IRELAND SOUTH | -----D°-----D°-----D°-----  |
| WARNINGS |               | The south cone is still flying in districts 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.  | Dry. | Wet. | Wind. | Wes. | Sea. |               | Bar.  | Dry. | Wet. | Wind. | Wes. | Sea. |
|-------------------|-------|------|------|-------|------|------|---------------|-------|------|------|-------|------|------|
| Skudesnaes ...    | 29.16 | 47   | 44   | W 5   | 0    | 4    | Holyhead ...  | 29.33 | 49   | 44   | W 5   | 6c   | 5    |
| Sumburgh Head ... |       |      |      |       |      |      | Valencia ...  |       |      |      |       |      |      |
| Stornoway ...     | 28.95 | 43   | 43   | E 5   | 0    | 4    | Scilly ...    |       |      |      |       |      |      |
| Aberdeen ...      |       |      |      |       |      |      | Dungeness ... | 29.51 | 51   | 48   | W 6   | 6c   | 5    |
| Shields ...       |       |      |      |       |      |      | London ...    |       |      |      |       |      |      |
| Ardrossan ...     |       |      |      |       |      |      | Farmouth ...  |       |      |      |       |      |      |
| Malin Head ...    | 29.07 | 44   | 43   | W 5   | 0    | 4    | Jersey ...    | 29.69 | 51   | 49   | W 6   | 6c   | 5    |
| Mullaghmore ...   |       |      |      |       |      |      | Rocheport ... | 29.96 | 51   | 51   | W 7   | 7    | 2    |
| Belmullet ...     | 29.17 | 45   | 43   | W 5   | 0    | 4    |               |       |      |      |       |      |      |

## GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

100

The reports for yesterday morning showed that the general distribution of pressure remained very similar to that of Saturday; reading being highest over East and South Europe, and lowest in a large area lying to the westward of our Islands and westward of Norway. In the course of the night however, a well defined and deep secondary disturbance had advanced rapidly in an east-northeast direction across the Channel and South of England, and at 8 a.m. yesterday its centre lay a little to the East of Yarmouth.

Over the greater part of Europe, moderate to strong W gales were reported over the English Channel and North of France, and S or SW gales over the Netherlands and Western Germany. This while SW winds of moderate strength prevailed.

The weather was fine in Italy and Algeria, but cloudy and overcast elsewhere with showers in many places and steady rain over the Netherlands and South of Denmark. Temperature had fallen a few degrees over the British Islands and North of France, but risen in most other localities; readings ranged from 55° and upwards over the extreme South of Europe to 32° and less over Central and southern Russia.

The highest individual readings were 65° at Algiers, 62° at Lisbon and Malta, 61° at Spain, 60° at Barcelona, 59° at Brindisi and Palermo and 58° at Cagliari; the lowest were 18° at Nicolaïeff, 19° at Odessa, 32° at Moscow and Herndon and 36° at Breslau, Vienna, Archangel and Kiev.

In the course of the day the deep depression off the East of England moved north-eastward to Denmark, and the gales over the Channel and the Netherlands subsided.

Owing however, to the appearance of a large shallow disturbance over our North district the weather remained very unsettled with showers of hail or rain in many places, and thunder locally.

## SUMMARY OF CHANGE IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 22<sup>ND</sup> TO THE 29<sup>TH</sup> OCTOBER 1887

The weather experienced over the British Islands during the week now under review has been very changeable; at some times exceedingly cold and quiet, at others rough, mild and rainy.

At the commencement of the week pressure was high over France and Germany, low over Lapland, and rather so over the North of our Islands, from which regions a depression and some subsidiary disturbances were passing off to the eastward.

The barometer then rose and temperature fell fast, while the wind drew N.W. and blew freshly with showers of cold rain, hail and sleet and afterwards blew hard at the Dutch stations. On Tuesday a well defined anticyclone (in which pressure exceeded 30.7 in.) had advanced over us; the cold became very severe in Ireland, and subsequently over England also, as the centre moved south-eastwards in its journey towards France and Germany.

In the rear of this system cyclonic S.W. winds set in, blowing hard in the West and North, and bringing with them a great amelioration of temperature much rain in Ireland and a smaller quantity elsewhere. The thermometer subsequently rose everywhere, until on Friday, maxima as high as 60° were recorded over the southern half of the Kingdom, and frost disappeared entirely from our Island.

A very large and apparently very deep depression passed north-eastwards outside our extreme northwest and northern coasts on the 26<sup>th</sup> and 27<sup>th</sup>, and some small shallow secondary systems came over Ireland and Scotland on the following day, but on Saturday morning these were passing off.

Later on a sudden fall of the barometer took place in the southwest, and the sky assumed a very unsettled appearance at all our southern stations, and a small deep depression advanced rapidly up Channel causing heavy gales in France, and severe temporary gales on our extreme southern coast.

## EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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



# CORRECTIONS AND ADDITIONS TO THE REPORTS FOR OCTOBER 1887

## 1. REPORTS RECEIVED TOO LATE FOR INSERTION DAILY.

| DATE. | STATIONS.     | † YESTERDAY EVENING.                        |                    |        |                      |          |   | 8 A.M. TO DAY.                          |             |      |   |        |                      |                   |             |      |                           | PAST 24 HOURS. |  |  |
|-------|---------------|---|--------------------|--------|----------------------|----------|---|---|-------------|------|---|--------|----------------------|-------------------|-------------|------|---------------------------|----------------|--|--|
|       |               | Barometer<br>at 32° F.<br>and<br>Sea Level. | Temp. in<br>Shade. | WIND.  |                      | Weather. | BAROMETER.                                |   | SHADE TEMP. |      |   | WIND.  |                      | Sea.<br>(0 to 9.) | SHADE TEMP. |      | Amount<br>of<br>Rainfall. |                |  |  |
|       |               |   |                    | Direc. | Force.<br>(0 to 12.) |          | Reading<br>at 32° F.<br>and<br>Sea Level. | Difference<br>from 8 a.m.<br>yesterday. | Dry.        | Wet. | Difference<br>from 8 a.m.<br>yesterday. | Direc. | Force.<br>(0 to 12.) |                   | Max.        | Min. |                           |                |  |  |
|       |               |   |                    |        |                      |          |   |   |             |      |   |        |                      |                   |             |      |                           |                |  |  |
| 1     | Belfast.....  | 29.80                                       | 51                 | N      | 1                    | c        | 30.01                                     | + .33                                   | 49          | 47   | + 4                                     | N      | 1                    | b                 | *           | 53   | 43                        | -              |  |  |
| -     | Corunna....   | *   | *                  | *      | *                    | *        | 30.01                                     | + .26                                   | 52          | ?    | - 1                                     | ENE    | 1                    | bc                | 5           | 61   | 45                        | 0.32           |  |  |
| 3     | Orient.....   | 30.27                                       | 58                 | NE     | 3                    | c        | 30.33                                     | + .11                                   | 52          | -    | + 1                                     | ENE    | 3                    | c                 | 2           | 61   | 48                        | -              |  |  |
| -     | Corunna....   | *   | *                  | *      | *                    | *        | 30.20                                     | + .06                                   | 57          | 51   | - 3                                     | NE     | 1                    | b                 | 2           | 63   | 46                        | 0.08           |  |  |
| 4     | Corunna....   | *   | *                  | *      | *                    | *        | 30.15                                     | - .05                                   | 57          | 52   | 0                                       | NE     | 1                    | b                 | 2           | 62   | 46                        | -              |  |  |
| 5     | Corunna....   | *   | *                  | *      | *                    | *        | 30.10                                     | - .05                                   | 56          | 52   | - 1                                     | ENE    | 1                    | b                 | 3           | 64   | 46                        | -              |  |  |
| 6     | Corunna....   | *   | *                  | *      | *                    | *        | 30.02                                     | - .08                                   | 54          | 50   | - 2                                     | ENE    | 1                    | b                 | 2           | 68   | 45                        | -              |  |  |
| 7     | Corunna....   | *   | *                  | *      | *                    | *        | 29.97                                     | - .05                                   | 51          | 49   | - 3                                     | ENE    | 1                    | b                 | 3           | 64   | 43                        | -              |  |  |
| 10    | Lyon.....     | 29.52                                       | 57                 | S      | 3                    | 0        | 29.49                                     | - .36                                   | 55          | -    | + 14                                    | SW     | 1                    | c                 | *           | 61   | ?                         | 0.12           |  |  |
| -     | Corunna....   | *   | *                  | *      | *                    | *        | 29.89                                     | -                                       | 58          | 56   | -                                       | NE     | 1                    | f                 | 4           | 64   | 52                        | 0.32           |  |  |
| 11    | Biarritz....  | 29.94                                       | 56                 | N      | 4                    | r        | 30.00                                     | + .36                                   | 52          | -    | - 8                                     | SW     | 5                    | 0                 | 2           | 63   | 50                        | 0.47           |  |  |
| -     | Corunna....   | *   | *                  | *      | *                    | *        | 30.06                                     | + .17                                   | 50          | 46   | - 8                                     | ENE    | 3                    | f                 | 3           | ?    | 45                        | -              |  |  |
| 12    | Corunna....   | *   | *                  | *      | *                    | *        | 30.06                                     | 00                                      | 50          | 48   | 0                                       | ESE    | 3                    | bc                | 4           | 61   | 45                        | 0.04           |  |  |
| 13    | Corunna....   | *   | *                  | *      | *                    | *        | 30.06                                     | 00                                      | 55          | 54   | + 5                                     | ENE    | 1                    | 0                 | 4           | 61   | 48                        | 0.20           |  |  |
| 15    | Brussels....  | *   | *                  | *      | *                    | *        | 29.82                                     | + .06                                   | 35          | -    | - 6                                     | W      | 1                    | 0                 | *           | 44   | 33                        | 0.57           |  |  |
| -     | Belfast.....  | 29.78                                       | 39                 | NW     | 3                    | 0        | 29.81                                     | - .03                                   | 35          | 34   | - 4                                     | W      | 3                    | 0                 | *           | 41   | 31                        | 0.28           |  |  |
| -     | Corunna....   | *   | *                  | *      | *                    | *        | 30.19                                     | + .02                                   | 46          | 45   | + 4                                     | E      | 1                    | c                 | ?           | 59   | 39                        | -              |  |  |
| 16    | Frisby.....   | 30.13                                       | 35                 | NE     | 2                    | b        | 30.10                                     | -                                       | 44          | 40   | -                                       | NW     | 2                    | bc                | *           | 45   | 34                        | -              |  |  |
| 17    | Corunna....   | *   | *                  | *      | *                    | *        | 30.38                                     | + .21                                   | 51          | 47   | - 5                                     | NE     | 1                    | b                 | 2           | 61   | 41                        | -              |  |  |
| 18    | Frisby.....   | 30.02                                       | 45                 | N      | 4                    | b        | 29.93                                     | -                                       | 45          | 43   | -                                       | W      | 2                    | bc                | *           | 46   | 34                        | -              |  |  |
| -     | Corunna....   | *   | *                  | *      | *                    | *        | 30.32                                     | - .06                                   | 51          | 45   | 0                                       | ENE    | 1                    | b                 | 2           | 68   | 41                        | -              |  |  |
| 19    | Corunna....   | *   | *                  | *      | *                    | *        | 30.27                                     | - .05                                   | 48          | 45   | - 3                                     | E      | 1                    | b                 | 2           | 64   | 41                        | -              |  |  |
| 21    | Corunna....   | *   | *                  | *      | *                    | *        | 30.24                                     | + .04                                   | 59          | 53   | + 6                                     | E      | 1                    | b                 | 1           | 68   | 43                        | -              |  |  |
| 22    | The Helder... | 30.45                                       | 46                 | N      | 4                    | c        | 30.54                                     | + .22                                   | 45          | -    | - 2                                     | NW     | 1                    | c                 | 1           | 48   | 45                        | -              |  |  |
| -     | Lyon.....     | 30.37                                       | 47                 | N      | 5                    | 0        | 30.45                                     | + .07                                   | 37          | -    | + 2                                     | N      | 4                    | c                 | *           | 48   | ?                         | -              |  |  |
| 24    | Corunna....   | *   | *                  | *      | *                    | *        | 30.34                                     | + .13                                   | 48          | 47   | - 8                                     | NE     | 3                    | f                 | 2           | 61   | 45                        | 0.04           |  |  |
| 28    | Frisby.....   | 29.94                                       | 44                 | NW     | 6                    | c        | 29.86                                     | - .13                                   | 43          | 40   | - 2                                     | WSW    | 4                    | bc                | *           | 46   | 32                        | -              |  |  |
| -     | Corunna....   | *   | *                  | *      | *                    | *        | 30.05                                     | - .14                                   | 57          | 56   | + 12                                    | E      | 3                    | 0                 | 3           | 63   | ?                         | -              |  |  |
| 29    | Frisby.....   | 29.73                                       | 45                 | SW     | 6                    | 0        | 29.61                                     | - .25                                   | 45          | 42   | + 2                                     | SW     | 4                    | bc                | *           | 48   | 39                        | -              |  |  |
| -     | Corunna....   | *   | *                  | *      | *                    | *        | 30.04                                     | - .01                                   | 55          | 55   | - 2                                     | NE     | 3                    | 0                 | 4           | 59   | 50                        | 0.28           |  |  |
| 31    | Belfast.....  | 29.87                                       | 41                 | WSW    | 3                    | c        | 29.82                                     | -                                       | 36          | -    | -                                       | SSE    | 1                    | f                 | *           | 53   | 31                        | 0.12           |  |  |
| -     | Corunna....   | *   | *                  | *      | *                    | *        | 30.15                                     | + .12                                   | 55          | 50   | + 4                                     | NW     | 1                    | b                 | 5           | 63   | 45                        | 0.12           |  |  |



**SUMMARY of the METEOROLOGICAL OBSERVATIONS made at TELEGRAPHIC REPORTING**  
 Observations are made at 8 a.m. daily, but the numbers of days of Rain, Snow, Hail,  
 (The Stations are grouped in Districts, and then arranged in order of

| Names<br>of<br>Districts. | Names<br>of<br>Stations.   | Mean height of Barometer (at<br>32° Fahrenheit and Mean Sea<br>Level) from observations made<br>at 8 a.m.<br>ins. | Air Temperature.             |                              |                              |                              |                      |  |                      |  | Tension of Vapour<br>ins. |
|---------------------------|--|---|------------------------------|------------------------------|------------------------------|------------------------------|----------------------|--|----------------------|--|---------------------------|
|                           |  |   | At 8 a.m.                    | Means of                     |                              |                              | Absolute Extremes.   |  |                      |  |                           |
|                           |  |   |                              | Minima                       | Maxima                       | Min. and Max.<br>combined    | Minimum              | Date   | Maximum              | Date   |                           |
| 0. SCOTLAND, N.           | { Sumburgh Head ...<br>Wick ...<br>Stornoway ...   | 29.868<br>29.948<br>29.995  | 43.3<br>44.5<br>44.4         | 38.8<br>38.9<br>39.2         | 47.3<br>48.9<br>49.1         | 43.1<br>43.9<br>44.2         | 28<br>30<br>29       | 25 <sup>th</sup><br>12 <sup>th</sup><br>25 <sup>th</sup>   | 55<br>58<br>57       | 5 <sup>th</sup><br>18 <sup>th</sup><br>6 <sup>th</sup>   | 244<br>253<br>275         |
| 1. SCOTLAND, E.           | { Nairn...<br>Aberdeen ...<br>Leith ...  | 30.000<br>29.981<br>30.063  | 44.0<br>42.8<br>44.4         | 40.1<br>38.5<br>39.6         | 50.2<br>51.1<br>54.0         | 45.2<br>44.8<br>46.8         | 31<br>30<br>30       | 12 <sup>th</sup><br>22 <sup>nd</sup> + 26 <sup>th</sup><br>12 <sup>th</sup> + 22 <sup>nd</sup>                     | 59<br>62<br>64       | 23 <sup>rd</sup> + 27 <sup>th</sup><br>6 <sup>th</sup><br>22 <sup>nd</sup> + 25 <sup>th</sup>                  | 248<br>230<br>236         |
| 2. ENGLAND, N.E.          | { Shields ...<br>York ...<br>Spurn Head ...  | 30.022<br>30.061<br>30.023  | 44.2<br>42.4<br>45.5         | 38.8<br>37.3<br>42.0         | 51.0<br>51.1<br>50.0         | 44.9<br>44.2<br>46.0         | 29<br>27<br>33       | 26 <sup>th</sup><br>22 <sup>nd</sup><br>12 <sup>th</sup> + 25 <sup>th</sup>  | 60<br>59<br>56       | 3 <sup>rd</sup><br>23 <sup>rd</sup> + 27 <sup>th</sup><br>7 <sup>th</sup>                                      | 234<br>233<br>277         |
| 3. ENGLAND, E.            | { Yarmouth ...<br>Cambridge ...  | 30.046<br>30.080  | 45.3<br>43.1                 | 40.9<br>37.3                 | 50.4<br>53.1                 | 45.7<br>45.2                 | 30<br>24             | 13 <sup>th</sup><br>26 <sup>th</sup>   | 56<br>60             | 15 <sup>th</sup> 3 <sup>rd</sup> 7 <sup>th</sup><br>7 <sup>th</sup> + 28 <sup>th</sup>                         | 268<br>246                |
| 4. MIDLAND<br>COUNTIES.   | { Loughborough ...<br>Oxford ...   | 30.097<br>30.123  | 41.3<br>41.4                 | 36.9<br>37.4                 | 52.7<br>52.2                 | 44.8<br>44.8                 | 29<br>26             | 22 <sup>nd</sup> + 26 <sup>th</sup><br>26 <sup>th</sup> + 27 <sup>th</sup>   | 61<br>60             | 4 <sup>th</sup><br>5 <sup>th</sup> + 28 <sup>th</sup>  | 228<br>227                |
| 5. ENGLAND, S.            | { London ...<br>Dungeness ...<br>Hurst Castle...   | 30.103<br>30.056<br>30.131  | 42.4<br>43.7<br>45.2         | 38.2<br>39.4<br>39.6         | 52.8<br>53.3<br>54.1         | 45.5<br>46.4<br>46.9         | 26<br>27<br>27       | 26 <sup>th</sup><br>13 <sup>th</sup> + 26 <sup>th</sup><br>26 <sup>th</sup>  | 63<br>61<br>63       | 8 <sup>th</sup><br>8 <sup>th</sup><br>8 <sup>th</sup>  | 229<br>254<br>262         |
| 6. SCOTLAND, W.           | Ardrossan ...  | 30.058  | 45.8                         | 39.7                         | 52.1                         | 45.9                         | 29                   | 15 <sup>th</sup>   | 60                   | 3 <sup>rd</sup>  | 265                       |
| 7. ENGLAND, N.W.          | { *Hawes Junction ...<br>Barrow-in-Furness ...<br>Liverpool Obs <sup>r</sup> . (Bidston) ...<br>Holyhead ... | 28.815<br>30.072<br>30.097<br>30.115  | 39.4<br>45.0<br>45.3<br>48.6 | 35.1<br>41.5<br>42.4<br>45.7 | 45.8<br>51.0<br>51.0<br>52.7 | 40.5<br>46.3<br>46.7<br>49.2 | 23<br>32<br>32<br>35 | 12 <sup>th</sup> + 26 <sup>th</sup><br>12 <sup>th</sup> + 25 <sup>th</sup><br>26 <sup>th</sup><br>13 <sup>th</sup> | 58<br>59<br>58<br>60 | 4 <sup>th</sup><br>4 <sup>th</sup><br>22 <sup>nd</sup> + 30 <sup>th</sup> + 4 <sup>th</sup><br>8 <sup>th</sup> | 230<br>243<br>244<br>271  |
| 8. ENGLAND, S.W.          | { Pembroke ...<br>Prawle Point ...   | 30.140<br>30.156  | 48.6<br>47.8                 | 45.2<br>41.0                 | 52.5<br>53.3                 | 48.9<br>48.2                 | 37<br>29             | 12 <sup>th</sup><br>25 <sup>th</sup>   | 58<br>61             | 1 <sup>st</sup><br>2 <sup>nd</sup> + 7 <sup>th</sup> + 18 <sup>th</sup>  | 320<br>267                |
| 9. IRELAND, N.            | { Malin Head ...<br>Donaghadee ...<br>Mullaghmore ...<br>Belmullet ...                                       | 30.082<br>30.100<br>30.131<br>30.157  | 47.4<br>46.3<br>47.6<br>48.0 | 44.4<br>42.9<br>43.8<br>45.3 | 50.1<br>52.0<br>51.7<br>52.2 | 47.3<br>47.5<br>47.8<br>48.8 | 36<br>33<br>35<br>39 | 12 <sup>th</sup><br>12 <sup>th</sup><br>26 <sup>th</sup><br>8 <sup>th</sup>  | 58<br>58<br>59<br>61 | 6 <sup>th</sup><br>1 <sup>st</sup> 3 <sup>rd</sup> 7 <sup>th</sup><br>3 <sup>rd</sup><br>2 <sup>nd</sup>       | 275<br>261<br>261<br>267  |
| 10. IRELAND, S.           | { Parsonstown...<br>Valencia ...<br>Roche's Point ...  | 30.178<br>30.192<br>30.168  | 42.2<br>49.5<br>47.7         | 37.9<br>44.4<br>43.8         | 51.8<br>54.8<br>54.2         | 44.4<br>49.4<br>49.0         | 24<br>31<br>34       | 25 <sup>th</sup> + 26 <sup>th</sup><br>25 <sup>th</sup><br>25 <sup>th</sup>  | 57<br>61<br>62       | 7 <sup>th</sup><br>1 <sup>st</sup><br>1 <sup>st</sup>  | 239<br>284<br>271         |
| CHANNEL<br>ISLANDS.       | { Scilly (St. Mary's) ..<br>Jersey (Noirmont) ...  | 30.151<br>30.145  | 51.2<br>49.8                 | 47.5<br>44.7                 | 54.4<br>55.0                 | 51.0<br>49.9                 | 41<br>33             | 26 <sup>th</sup><br>26 <sup>th</sup>   | 59<br>61             | 30<br>18 <sup>th</sup>   | 312<br>275                |

\* Hawes Junction is 1135 feet above mean Sea Level and the

\* Hawes Junction is 1135 feet above mean Sea Level and the



STATIONS in the BRITISH ISLANDS during the Month of OCTOBER 1887.  
 Thunderstorms and Gales are counted irrespective of the hours at which they occurred.  
 Latitude, beginning in each case with the Station lying furthest North.)

| Relative Humidity | Amount of Cloud | Rainfall.               |                         |                  | Weather        |      |      |               |           |          |       | Wind                  |      |      |      |       |      |      |      |      |
|-------------------|-----------------|-------------------------|-------------------------|------------------|----------------|------|------|---------------|-----------|----------|-------|-----------------------|------|------|------|-------|------|------|------|------|
|                   |                 | Total Fall in the month | Maximum Fall in one day | Date             | No. of Days of |      |      |               |           |          |       | No. of Observation of |      |      |      |       |      |      |      |      |
|                   |                 | ins.                    | in.                     |                  | Rain           | Snow | Hail | Thunderstorms | Clear Sky | Overcast | Gales | North                 | N.E. | East | S.E. | South | S.W. | West | N.W. | Calm |
| 88                | 8.7             | 2.65                    | 0.40                    | 26 <sup>th</sup> | 28             | 2    | 1    | 1             | 0         | 21       | 1     | 13                    | 0    | 0    | 0    | 1     | 4    | 4    | 6    | 3    |
| 86                | 8.2             | 2.38                    | 0.35                    | 31 <sup>st</sup> | 20             | 3    | 2    | 0             | 0         | 15       | 0     | 9                     | 2    | 0    | 1    | 0     | 2    | 8    | 9    | 0    |
| 94                | 8.7             | 5.35                    | 0.67                    | 9 <sup>th</sup>  | 27             | 4    | 2    | 1             | 0         | 23       | 8     | 5                     | 5    | 2    | 0    | 1     | 8    | 5    | 3    | 2    |
| 86                | 5.8             | 2.83                    | 0.99                    | 9 <sup>th</sup>  | 15             | 2    | 0    | 0             | 6         | 8        | 0     | 3                     | 1    | 0    | 1    | 0     | 13   | 8    | 1    | 4    |
| 84                | 5.5             | 2.73                    | 0.55                    | 9 <sup>th</sup>  | 16             | 6    | 2    | 0             | 10        | 10       | 5     | 6                     | 2    | 0    | 0    | 0     | 6    | 8    | 4    | 0    |
| 81                | 5.5             | 1.15                    | 0.45                    | 7 <sup>th</sup>  | 11             | 1    | 0    | 0             | 8         | 6        | 0     | 2                     | 1    | 0    | 0    | 0     | 3    | 18   | 7    | 0    |
| 80                | 7.2             | 2.97                    | 0.68                    | 14 <sup>th</sup> | 15             | 1    | 2    | 0             | 5         | 14       | 1     | 5                     | 1    | 0    | 0    | 1     | 8    | 9    | 6    | 1    |
| 86                | 7.2             | 2.16                    | 0.70                    | 8 <sup>th</sup>  | 14             | 0    | 0    | 0             | 7         | 18       | 0     | 9                     | 1    | 0    | 0    | 3     | 3    | 7    | 7    | 1    |
| 91                | 5.1             | 2.43                    | 0.67                    | 24 <sup>th</sup> | 19             | 4    | 2    | 0             | 8         | 3        | 5     | 5                     | 2    | 1    | 0    | 0     | 5    | 6    | 12   | 0    |
| 89                | 6.1             | 3.06                    | 0.54                    | 24 <sup>th</sup> | 22             | 2    | 2    | 0             | 4         | 7        | 4     | 6                     | 1    | 0    | 0    | 0     | 6    | 9    | 9    | 0    |
| 88                | 6.7             | 1.54                    | 0.60                    | 29 <sup>th</sup> | 13             | 0    | 1    | 0             | 8         | 16       | 0     | 12                    | 0    | 0    | 0    | 2     | 5    | 5    | 5    | 2    |
| 88                | 7.3             | 1.53                    | 0.95                    | 29 <sup>th</sup> | 11             | 0    | 0    | 0             | 4         | 16       | 1     | 2                     | 1    | 2    | 1    | 0     | 3    | 11   | 10   | 1    |
| 88                | 6.8             | 1.76                    | 0.85                    | 29 <sup>th</sup> | 9              | 1    | 1    | 0             | 7         | 15       | 0     | 4                     | 4    | 0    | 0    | 2     | 2    | 9    | 7    | 3    |
| 85                | 6.9             | 1.32                    | 0.55                    | 29 <sup>th</sup> | 10             | 2    | 2    | 0             | 8         | 17       | 2     | 4                     | 4    | 0    | 1    | 2     | 3    | 10   | 5    | 2    |
| 88                | 7.7             | 1.32                    | 0.47                    | 29 <sup>th</sup> | 12             | 1    | 0    | 0             | 1         | 12       | 1     | 10                    | 5    | 0    | 0    | 0     | 3    | 5    | 8    | 0    |
| 87                | 5.1             | 1.43                    | 0.97                    | 29 <sup>th</sup> | 8              | 0    | 0    | 0             | 5         | 0        | 1     | 11                    | 8    | 1    | 0    | 0     | 1    | 2    | 8    | 0    |
| 86                | 4.8             | 1.43                    | 0.28                    | 7 <sup>th</sup>  | 9              | 0    | 1    | 0             | 13        | 8        | 4     | 4                     | 2    | 4    | 0    | 1     | 5    | 6    | 6    | 3    |
| 95                | 8.1             | 2.74                    | 0.49                    | 8 <sup>th</sup>  | 16             | 1    | 1    | 0             | 4         | 22       | 0     | 4                     | 4    | 3    | 1    | 5     | 6    | 2    | 6    | 0    |
| 82                | 6.0             | 3.23                    | 0.91                    | 27 <sup>th</sup> | 11             | 0    | 0    | 0             | 3         | 9        | 2     | 7                     | 9    | 1    | 0    | 3     | 4    | 1    | 6    | 0    |
| 81                | 7.3             | 2.26                    | 0.37                    | 9 <sup>th</sup>  | 16             | 0    | 1    | 1             | 5         | 16       | 1     | 5                     | 4    | 1    | 2    | 3     | 6    | 7    | 3    | 0    |
| 79                | 7.0             | 2.83                    | 0.50                    | 27 <sup>th</sup> | 14             | 1    | 3    | 1             | 3         | 11       | 2     | 11                    | 4    | 0    | 0    | 2     | 4    | 6    | 4    | 0    |
| 93                | 5.9             | 2.45                    | 0.47                    | 29 <sup>th</sup> | 14             | 0    | 4    | 1             | 3         | 8        | 3     | 6                     | 9    | 2    | 1    | 2     | 3    | 6    | 2    | 0    |
| 81                | 6.4             | 2.14                    | 0.50                    | 29 <sup>th</sup> | 10             | 1    | 1    | 0             | 4         | 11       | 1     | 10                    | 7    | 0    | 1    | 0     | 2    | 4    | 7    | 0    |
| 84                | 8.1             | 2.32                    | 0.30                    | 28 <sup>th</sup> | 20             | 0    | 7    | 0             | 1         | 20       | 1     | 9                     | 1    | 1    | 0    | 1     | 7    | 5    | 7    | 0    |
| 84                | 6.2             | 1.51                    | 0.36                    | 31 <sup>st</sup> | 11             | 0    | 0    | 0             | 6         | 10       | 4     | 2                     | 12   | 0    | 0    | 0     | 6    | 9    | 2    | 0    |
| 79                | 7.7             | 3.50                    | 1.26                    | 31 <sup>st</sup> | 17             | 1    | 3    | 0             | 2         | 11       | 9     | 6                     | 3    | 1    | 2    | 7     | 7    | 0    | 4    | 1    |
| 80                | 8.3             | 4.81                    | 2.30                    | 31 <sup>st</sup> | 18             | 0    | 2    | 1             | 2         | 18       | 4     | 7                     | 4    | 1    | 2    | 4     | 7    | 3    | 3    | 0    |
| 87                | 6.4             | 2.52                    | 1.15                    | 26 <sup>th</sup> | 9              | 0    | 0    | 0             | 9         | 16       | 0     | 1                     | 1    | 0    | 0    | 2     | 2    | 1    | 3    | 21   |
| 80                | 7.5             | 4.74                    | 2.32                    | 26 <sup>th</sup> | 12             | 0    | 1    | 0             | 4         | 17       | 2     | 5                     | 7    | 1    | 3    | 3     | 2    | 4    | 3    | 3    |
| 82                | 5.9             | 2.67                    | 1.15                    | 31 <sup>st</sup> | 8              | 0    | 0    | 0             | 9         | 11       | 1     | 12                    | 5    | 2    | 0    | 1     | 4    | 2    | 5    | 0    |
| 83                | 8.4             | 3.78                    | 1.59                    | 29 <sup>th</sup> | 14             | 0    | 2    | 1             | 0         | 15       | 6     | 4                     | 7    | 4    | 1    | 2     | 1    | 3    | 4    | 5    |
| 77                | 6.1             | 3.38                    | 0.70                    | 30 <sup>th</sup> | 16             | 0    | 3    | 2             | 4         | 9        | 1     | 3                     | 11   | 3    | 2    | 0     | 1    | 3    | 7    | 1    |

Barometric Observations at this Station are not corrected for altitude.



## 2. CORRECTIONS.

| DATE. | STATIONS.           | + YESTERDAY EVENING.                        |                    |        |                      |          | 8 A.M. TO DAY.                            |   |             |      |   |        |                      |          | PAST 24 HOURS.   |             |      |                           |
|-------|---------------------|---|--------------------|--------|----------------------|----------|---|---|-------------|------|---|--------|----------------------|----------|------------------|-------------|------|---------------------------|
|       |                     | Barometer<br>at 32° F.<br>and<br>Sea Level. | Temp. in<br>Shade. | WIND.  |                      | Weather. | BAROMETER.                                |   | SHADE TEMP. |      |   | WIND.  |                      | Weather. | Sea<br>(0 to 9.) | SHADE TEMP. |      | Amount<br>of<br>Rainfall. |
|       |                     |   |                    | Dirac. | Force.<br>(0 to 12.) |          | Reading<br>at 32° F.<br>and<br>Sea Level. | Difference<br>from 8 a.m.<br>yesterday. | Dry.        | Wet. | Difference<br>from 8 a.m.<br>yesterday. | Dirac. | Force.<br>(0 to 12.) |          |                  | Max.        | Min. |                           |
| 2     | Liverpool...        | -   | -                  | -      | -                    | -        | -   | -                                       | -           | -    | -                                       | -      | -                    | -        | -                | -           | 47   | -                         |
| 4     | Mullaghmore<br>2pm  | -   | -                  | -      | -                    | -        | -   | -                                       | -           | -    | -                                       | -      | -                    | 0        | -                | -           | -    | -                         |
| -     | Shields...          | -   | -                  | -      | -                    | -        | -   | -                                       | -           | -    | -                                       | -      | -                    | -        | -                | -           | 41   | -                         |
| 7     | Sumburgh Hd         | 29.99                                       | -                  | -      | -                    | -        | -   | -                                       | -           | -    | -                                       | -      | -                    | -        | -                | -           | -    | -                         |
| -     | Valencia...         | -   | -                  | -      | -                    | -        | -   | -                                       | -           | -    | -                                       | -      | -                    | -        | -                | -           | 40   | -                         |
| -     | Silly...            | -   | -                  | -      | -                    | -        | 30.09                                     | -0.09                                   | -           | -    | -                                       | -      | -                    | -        | -                | -           | -    | -                         |
| 9     | Pembroke...         | -   | -                  | -      | -                    | -        | -   | -                                       | -           | -    | -                                       | -      | -                    | -        | -                | -           | -    | 0.11                      |
| 10    | Aberdeen...         | -   | -                  | -      | -                    | -        | -   | -                                       | -           | -    | -                                       | -      | -                    | -        | -                | -           | -    | 0.55                      |
| -     | London...           | -   | -                  | -      | -                    | -        | -   | -                                       | -           | -    | -                                       | -      | rw                   | -        | -                | -           | -    | -                         |
| -     | Ardrrossan<br>2pm   | -   | -                  | -      | -                    | -        | -   | -                                       | -           | -    | -                                       | -      | rrw                  | -        | -                | -           | -    | -                         |
| 11    | Aberdeen...         | -   | -                  | -      | -                    | -        | -   | -                                       | 36          | -    | 8                                       | -      | -                    | -        | -                | -           | -    | -                         |
| 12    | Slairn...           | -   | -                  | -      | -                    | -        | 29.62                                     | -0.08                                   | -           | -    | -                                       | -      | -                    | -        | -                | -           | -    | -                         |
| 13    | Mullaghmore<br>2pm. | -   | -                  | -      | -                    | -        | 30.14                                     | -                                       | -           | -    | -                                       | -      | -                    | -        | -                | -           | -    | -                         |
| 14    | Ardrrossan          | -   | -                  | -      | -                    | -        | -   | -                                       | -           | -    | -                                       | -      | rrw                  | -        | -                | -           | -    | Do rain                   |
| -     | Mullaghmore         | -   | -                  | -      | -                    | -        | -   | -                                       | -           | -    | -                                       | -      | -                    | -        | -                | -           | 44   | -                         |
| 15    | Belmullet...        | -   | -                  | -      | -                    | -        | -   | -                                       | -           | -    | -                                       | -      | -                    | -        | -                | 52          | -    | -                         |
| 17    | Loughborough        | -   | -                  | -      | -                    | -        | -   | -                                       | 34          | 33   | +6                                      | -      | -                    | -        | -                | -           | -    | -                         |
| -     | Silly...            | -   | -                  | -      | -                    | -        | 30.60                                     | +18                                     | -           | -    | -                                       | -      | -                    | -        | -                | -           | -    | -                         |
| 20    | Leith...            | 30.12                                       | -                  | -      | -                    | -        | -   | -                                       | -           | -    | -                                       | -      | -                    | -        | -                | -           | -    | -                         |
| -     | Roche's Point.      | -   | -                  | -      | -                    | -        | -   | -                                       | -           | -    | -                                       | -      | -                    | -        | -                | -           | 48   | -                         |
| -     | Jersey...           | -   | -                  | -      | -                    | -        | -   | -                                       | -           | -    | -                                       | -      | -                    | -        | -                | 56          | -    | -                         |
| 21    | Sumburgh Hd         | 30.14                                       | 38                 | -      | -                    | -        | -   | -                                       | -           | -    | -                                       | -      | 4                    | -        | -                | -           | 32   | -                         |
| 23    | Sumburgh Hd         | -   | -                  | -      | -                    | -        | -   | -                                       | -           | -    | -                                       | -      | -                    | -        | -                | -           | -    | 0.19                      |
| 25    | Leith...            | -   | -                  | -      | -                    | 6        | -   | -                                       | -           | -    | -                                       | -      | -                    | -        | -                | -           | -    | -                         |
| 26    | Mullaghmore         | -   | -                  | WSW    | -                    | -        | -   | -                                       | -           | -    | -                                       | -      | -                    | -        | -                | -           | -    | -                         |
| -     | Paris...            | -   | -                  | -      | -                    | -        | -   | -                                       | -           | 27   | -                                       | -      | -                    | -        | -                | -           | -    | -                         |
| 27    | Jersey...           | -   | -                  | -      | -                    | -        | -   | -                                       | -           | -    | -                                       | -      | -                    | -        | -                | -           | 36   | -                         |
| 28    | Ardrrossan          | -   | 32                 | -      | -                    | -        | -   | -                                       | -           | -    | -                                       | -      | -                    | -        | -                | -           | -    | -                         |
| 29    | Mullaghmore         | -   | -                  | -      | -                    | -        | -   | -                                       | -           | -    | -                                       | -      | -                    | -        | -                | -           | 41   | 0.20                      |
| 30    | Parsonstown         | -   | -                  | -      | -                    | -        | -   | -                                       | -           | -    | -                                       | -      | -                    | -        | -                | -           | -    | 0.09                      |
| 31    | Stornoway...        | -   | -                  | -      | -                    | -        | 29.23                                     | +22                                     | -           | -    | -                                       | -      | -                    | -        | -                | -           | -    | -                         |
| -     | Nairn...            | -   | -                  | -      | -                    | -        | 29.16                                     | +07                                     | -           | -    | -                                       | -      | -                    | -        | -                | -           | -    | -                         |
| -     | Malin Head          | -   | -                  | -      | -                    | -        | -   | -                                       | -           | -    | -                                       | -      | -                    | -        | -                | -           | 41   | -                         |
| -     | Silly...            | 29.64                                       | -                  | -      | -                    | -        | -   | -                                       | -           | -    | -                                       | -      | -                    | -        | -                | -           | -    | -                         |