

EIGHT A.M.

## WEATHER REPORT. 1870

Saturday

January 1<sup>st</sup>

| STATIONS.                                  | Barometer. | Thermometer. |      | Present Wind. |                      | Extreme Wind.        |            | Amount of Cloud.<br>(0 to 9.) | Weather. | Rain.<br>(Inches) | Dir.<br>(°) |
|--|------------|--------------|------|---------------|----------------------|----------------------|------------|-------------------------------|----------|-------------------|-------------|
|  |            | Dry.         | Wet. | Direction.    | Force.<br>(0 to 12.) | Force.<br>(0 to 12.) | Direction. |                               |          |                   |             |
| * Christiansund                            |            |              |      |               |                      |                      |            | —                             |          | —                 |             |
| * Skudesnaes ...                           |            |              |      |               |                      |                      |            | —                             |          | —                 |             |
| * Oxo (Christiansund)                      |            |              |      |               |                      |                      |            | —                             |          | —                 |             |
| Thurso ...                                 |            |              |      |               |                      |                      |            |                               |          |                   |             |
| Wick ...                                   | 29.13T     | 40           | 39   | SSE           | 3                    | 3                    | SSW        | 6                             | c        | 0.02              |             |
| Nairn ...                                  | 29.15T     | 35           | 34   | SSE           | 1                    | 3                    | WSW        | 6                             | bc       | —                 |             |
| Aberdeen ...                               | 29.20T     | 37           | 36   | SSW           | 1                    | 1                    | SE         | 9                             | co       | —                 |             |
| Leith ...                                  | 29.20f     | 39           | 38   | ESE           | 2                    | 6                    | W          | 8                             | bo       | 0.01              |             |
| Shields ...                                | 29.18f     | 36           | 35   | SW            | 1                    | 2                    | SW         | 8                             | cm       | —                 |             |
| Scarborough ...                            | 29.21f     | 36           | 36   | WSW           | 2                    | 3                    | SW         | 8                             | co       | —                 |             |
| Yarmouth ...                               | 29.29f     | 41           | 41   | S             | 2                    | 3                    | SSW        | 6                             | rm       | 0.40              |             |
| Ardrossan ...                              | 29.18f     | 40           | 39   | ENE           | 2                    | 6                    | SW         | 9                             | or       | 0.05              |             |
| Greencastle ...                            | 29.10f     | 42           | 40   | NE            | 1                    | 3                    | SW         | 9                             | ro       | 0.05              |             |
| Holyhead ...                               | 29.13f     | 44           | 44   | SSW           | 4                    | 6                    | SSW        | 7                             | c        | 0.14              |             |
| Liverpool ...                              | 29.17f     | —            | —    | SE            | 2                    | 2                    | SSE        | 9                             | o        | 0.06              |             |
| Valencia ...                               | 29.03f     | 46           | 45   | SSE           | 3                    | 5                    | SSW        | 9                             | r        | 0.25              |             |
| Cape Clear ...                             | 29.06f     | 46           | 45   | S             | 2                    | 7                    | SW         | 8                             | cr       | 0.55              |             |
| Roche's Point                              | 29.13f     | 45           | 44   | SSW           | 2                    | 7                    | SW         | 9                             | o        | 0.25              |             |
| Pembroke ...                               | 29.17f     | 47           | 46   | SW            | 4                    | 5                    | SSW        | 5                             | oc       | 0.14              |             |
| Penzance ...                               | 29.26f     | 45           | 45   | Z             | 0                    | 0                    | Z          | 7                             | f        | 0.28              |             |
| Plymouth ...                               | 29.28f     | 47           | 46   | SW            | 1                    | 0                    | Z          | 7                             | rc       | 0.39              |             |
| Portsmouth ...                             | 29.33f     | 46           | 45   | SW            | 1                    | 3                    | SW         | 7                             | oc       | 0.35              |             |
| London ...                                 | 29.30f     | 44           | 43   | WSW           | 2                    | 3                    | SW         | 0                             | rbm      | 0.34              |             |
| Helder ...                                 |            |              |      |               |                      |                      |            | —                             |          | —                 |             |
| Cape Gris Nez                              |            |              |      |               |                      |                      |            |                               |          |                   |             |
| Brest ...                                  | 29.38f     | 50           | 48   | SW            | 4                    | 7                    | NW         | 9                             | mo       | 0.13              |             |
| L'Orient ...                               |            |              |      |               |                      |                      |            |                               |          |                   |             |
| Rochefort ...                              | 29.73f     | 41           | 39   | S             | 5                    | 5                    | S          | 9                             | o        | —                 |             |
| Biarritz ...                               |            |              |      |               |                      |                      |            |                               |          |                   |             |
| Corunna ...                                |            |              |      |               |                      |                      |            |                               |          |                   |             |
| Brussels ...                               |            |              |      |               |                      |                      |            |                               |          |                   |             |
| Paris ...                                  |            |              |      |               |                      |                      |            |                               |          |                   |             |
| Strasbourg ...                             |            |              |      |               |                      |                      |            |                               |          |                   |             |
| Lyons ...                                  |            |              |      |               |                      |                      |            |                               |          |                   |             |
| Toulon ...                                 | 30.00f     | 39           | 35   | SE            | 5                    | 5                    | SE         | 9                             | fr       | —                 |             |
| Heart's Content<br>(9 a.m. local<br>time.) |            |              |      |               |                      |                      |            |                               |          |                   |             |

## 2 P.M. REPORT.

|                 |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|
| Skudesnaes ...  |  |  |  |  |  |  |  |  |  |  |  |
| Nairn ...       |  |  |  |  |  |  |  |  |  |  |  |
| Scarborough ... |  |  |  |  |  |  |  |  |  |  |  |
| Greencastle ... |  |  |  |  |  |  |  |  |  |  |  |
| Valencia ..     |  |  |  |  |  |  |  |  |  |  |  |
| Penzance ...    |  |  |  |  |  |  |  |  |  |  |  |
| London ...      |  |  |  |  |  |  |  |  |  |  |  |
| Rochefort ...   |  |  |  |  |  |  |  |  |  |  |  |

\* **BAROMETER** corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER** exposed in shade. **EXTREME FORCE** with its Direction during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l.—lightning; m.—mist (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**, snow, hail (melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

\* Rainfall is not reported from the Norwegian stations; and their "extremes" are the observations made at 8 pm. on the previous day.



## REMARKS.

Satur - day

The decrease in pressure which commenced in Ireland yesterday afternoon still continues, and the change since 8 am yesterday is 0.4 in. In England readings are about 3 tenths lower except in the East coast, but in the North of Scotland there is a slight increase. The difference between Brest and Valencia is 0.35 in.

Temperature is rather higher in the South but lower in the North.

Winds backed to SW and were strong on the South coast of Ireland last night but they have fallen light again this morning: and the light SW<sup>ly</sup> breezes still hold every where, except at Ardrossan and Greenacres where NE is reported.

Rain has been general but most heavy on the Southern coasts. Weather is wet and cloudy this morning. The sea is moderate.

Warnings were issued to the West coast last night.

## CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

| Date.                 | Station.        | Bar.   | Temp. |    | Wind. |    | Extreme. |     | Cloud. | Weather. | Rain. | Sea. |
|-----------------------|-----------------|--------|-------|----|-------|----|----------|-----|--------|----------|-------|------|
| DEC. 31 <sup>st</sup> | Christiansund   | 29.26  | 27    | -  | ESE   | 6  | 4        | ESE | -      | Co S     | -     | 3    |
| - - -                 | Skudesnas       | 29.30  | 45    | 41 | S     | 6  | 8        | SSE | -      | O        | -     | 8    |
| - - -                 | Oxo             | 29.48  | 38    | 37 | SSW   | 10 | 8        | SW  | -      | OT       | -     | 8    |
| - - -                 | Wick            | 28.92f | 40    | 39 | SSW   | 4  | 7        | SSE | 8      | To       | 0.40  | 5    |
| - - -                 | Biarritz        | 29.76f | 43    | 41 | S     | 8  | 4        | S   | 9      | Co       | -     | 3    |
| - - -                 | Brussels        | 29.81  | 36    | -  | SW    | 6  | -        | -   | -      | O        | -     | -    |
| - - -                 | Paris           | 29.84  | 43    | -  | SE    | 2  | -        | -   | -      | O        | -     | -    |
| - - -                 | Strasbourg      | 30.21  | 44    | -  | N     | 1  | -        | -   | -      | f        | -     | -    |
| - - -                 | Lyons           | 30.04  | 37    | -  | S     | 1  | -        | -   | -      | f        | -     | -    |
| - - -                 | Heart's Content | 29.907 | 34    | 34 | S     | 1  | 1        | W   | 8      | OTS      | 0.20  | 2    |

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.



EIGHT A.M.

## WEATHER REPORT. 1870.

Sun. day

January 2<sup>nd</sup>

| STATIONS.                               | Barometer. | Thermometer. |      | Present Wind. |                   | Extreme Wind.     |            | Amount of Cloud. (0 to 9.) | Weather. | Rain. (Inches) | Dist. (0 to 10) |
|---|------------|--------------|------|---------------|-------------------|-------------------|------------|----------------------------|----------|----------------|-----------------|
|   |            | Dry.         | Wet. | Direction.    | Force. (0 to 12.) | Force. (0 to 12.) | Direction. |                            |          |                |                 |
| *Christiansund                          |            |              |      |               |                   |                   |            | —                          |          | —              |                 |
| *Skudesnaes ...                         |            |              |      |               |                   |                   |            | —                          |          | —              |                 |
| Oxo (Christiansund)                     | 29.55      | 39           | 39   | ESE           | 6                 | 0                 | Z          | —                          | bo       | —              |                 |
| Thurso ...                              |            |              |      |               |                   |                   |            |                            |          |                |                 |
| Wick ...                                | 29.34r     | 40           | 39   | SW            | 2                 | 3                 | SSE        | 7                          | c        | 0.09           | 2               |
| Nairn ...                               | 29.41r     | 34           | 33   | WNW           | 1                 | 1                 | E          | 6                          | bc       | —              | 1               |
| Aberdeen ...                            | 29.44r     | 38           | 37   | Z             | 0                 | 1                 | SSW        | 8                          | om       | 0.10           | 1               |
| Leith ...                               |            |              |      |               |                   |                   |            |                            |          |                |                 |
| Shields ...                             | 29.44r     | 40           | 40   | SW            | 1                 | 2                 | SW         | 8                          | om       | —              | 2               |
| Scarborough ...                         | 29.46r     | 46           | 46   | SW            | 3                 | 2                 | SSW        | 9                          | fo       | 0.19           | 2               |
| Yarmouth ...                            | 29.60r     | 45           | 45   | S             | 3                 | 3                 | SW         | 5                          | o        | —              | 3               |
| Ardrossan ...                           | 29.47r     | 41           | 41   | E             | 1                 | 2                 | ENE        | 6                          | rm       | 0.37           | 1               |
| Greencastle ...                         | 29.48r     | 38           | 38   | WNW           | 1                 | 1                 | NE         | 2                          | om       | —              | 1               |
| Holyhead ...                            | 29.45r     | 45           | 44   | NNW           | 2                 | 3                 | SSW        | 9                          | cfr      | 0.24           | 1               |
| Liverpool ...                           | 29.43r     | —            | —    | SE            | 1                 | 1                 | SE         | 9                          | o        | 0.15           | 1               |
| Valencia ...                            |            |              |      |               |                   |                   |            |                            |          |                |                 |
| Cape Clear ...                          |            |              |      |               |                   |                   |            |                            |          |                |                 |
| Roche's Point                           | 29.47r     | 44           | 43   | N             | 3                 | 4                 | SSE        | 8                          | o        | 0.28           | 3               |
| Pembroke ...                            | 29.41r     | 46           | 46   | W             | 1                 | 6                 | SSE        | 9                          | of       | 0.20           | 4               |
| Penzance ...                            | 29.46r     | 45           | 45   | NNW           | 3                 | 5                 | S          | 4                          | mrc      | 0.25           | 4               |
| Plymouth ...                            |            |              |      |               |                   |                   |            |                            |          |                |                 |
| Portsmouth ...                          | 29.52r     | 46           | 45   | SSW           | 2                 | 3                 | SW         | 6                          | oc       | 0.02           | 2               |
| London ...                              | 29.54r     | 46           | 45   | SW            | 2                 | 4                 | SW         | 9                          | To       | 0.02           | 1               |
| Helder ...                              | 29.63      | 40           | —    | S             | 4                 | —                 | —          | —                          | —        | —              | 2               |
| Cape Gris Nez                           | 29.57r     | 43           | 41   | SSW           | 4                 | 5                 | SSW        | 9                          | o        | 0.01           | 2               |
| Brest ...                               |            |              |      |               |                   |                   |            |                            |          |                |                 |
| L'Orient ...                            |            |              |      |               |                   |                   |            |                            |          |                |                 |
| Rochefort ...                           | 29.59f     | 43           | 41   | S             | 5                 | 5                 | S          | 6                          | c        | —              | 1               |
| Biarritz ...                            | 29.74r     | 50           | 46   | S             | 5                 | 5                 | S          | 8                          | co       | —              | 5               |
| Corunna ...                             |            |              |      |               |                   |                   |            |                            |          |                |                 |
| Brussels ...                            | 29.68      | 45           | —    | SE            | 4                 | —                 | —          | —                          | o        | —              | 1               |
| Paris ...                               | 29.69      | 41           | —    | S             | 2                 | —                 | —          | —                          | o        | —              | 1               |
| Strasbourg ...                          | 29.97      | 37           | —    | S             | 1                 | —                 | —          | —                          | c        | —              | 1               |
| Lyons ...                               | 29.84      | 41           | —    | SW            | 1                 | —                 | —          | —                          | o        | —              | 1               |
| Toulon ...                              | 29.80r     | 46           | 46   | E             | 8                 | 5                 | E          | 9                          | r        | 0.19           | 1               |
| Heart's Content<br>(9 a.m. local time.) | 30.49r     | 21           | —    | N             | 3                 | 6                 | SSE        | 2                          | sgb      | —              | 5               |

## 2 P.M. REPORT.

|                 |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|
| Skudesnaes ...  |  |  |  |  |  |  |  |  |  |  |  |
| Nairn ...       |  |  |  |  |  |  |  |  |  |  |  |
| Scarborough ... |  |  |  |  |  |  |  |  |  |  |  |
| Greencastle ... |  |  |  |  |  |  |  |  |  |  |  |
| Valencia ..     |  |  |  |  |  |  |  |  |  |  |  |
| Penzance ...    |  |  |  |  |  |  |  |  |  |  |  |
| London ...      |  |  |  |  |  |  |  |  |  |  |  |
| Rochefort ...   |  |  |  |  |  |  |  |  |  |  |  |

**BAROMETER** corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER** exposed in shade. **EXTREME FORCE** with its Direction during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l.—lightning; m.—mist (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**, snow (hail melted), during last 24 hours. **SEA DISTURBANCE**: 0—dead calm; 9—extremely high sea.

\* Rainfall is not reported from the Norwegian stations; and their "extremes" are the observations made at 8 pm. on the previous day.



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DIRECTOR.



EIGHT A.M.

WEATHER REPORT. 1870 *January 3<sup>rd</sup>**Monday*

| STATIONS.                                  | Barometer. | Thermometer. |      | Present Wind. |                      | Extreme Wind.        |            | Amount of Cloud.<br>(0 to 9.) | Weather. | Rain.<br>(Inches) | Dis.<br>(0) |
|--|------------|--------------|------|---------------|----------------------|----------------------|------------|-------------------------------|----------|-------------------|-------------|
|  |            | Dry.         | Wet. | Direction.    | Force.<br>(0 to 12.) | Force.<br>(0 to 12.) | Direction. |                               |          |                   |             |
| * Christiansund                            | 29.54      | 35           | 32   | E             | 4                    | 4                    | E NE       | —                             | b        | —                 | —           |
| * Skudesnaes ...                           | 29.55      | 39           | 36   | ESE           | 6                    | 0                    | Z          | —                             | o        | —                 | —           |
| * Oxo (Christiansund)                      | 29.63      | 34           | 33   | NNE           | 6                    | 8                    | NE         | —                             | o        | —                 | —           |
| Thurso ...                                 |            |              |      |               |                      |                      |            |                               |          |                   |             |
| Wick ...                                   | 29.39f     | 40           | 39   | S             | 3                    | 3                    | S          | 6                             | c        | —                 | —           |
| Nairn ...                                  | 29.42f     | 34           | 32   | WNW           | 1                    | 1                    | WNW        | 1                             | b        | —                 | —           |
| Aberdeen ...                               | 29.48f     | 39           | 38   | SSW           | 1                    | 1                    | S          | 5                             | c        | 0.01              | —           |
| Leith ...                                  | 29.49f     | 41           | 41   | NE            | 1                    | 2                    | W          | 9                             | cm       | 0.01              | —           |
| Shields ...                                | 29.53s     | 42           | 42   | SW            | 2                    | 2                    | SW         | 8                             | mt       | —                 | —           |
| Scarborough...                             | 29.58f     | 44           | 44   | S             | 2                    | 3                    | SW         | 9                             | mf       | 0.03              | —           |
| Yarmouth ...                               | 29.69f     | 42           | 42   | SSW           | 2                    | 3                    | S          | 4                             | c        | —                 | —           |
| Ardrossan ...                              | 29.49f     | 44           | 42   | SW            | 3                    | 2                    | NE         | 7                             | c        | 0.04              | —           |
| Greencastle ...                            | 29.46f     | 39           | 38   | SW            | 1                    | 1                    | WNW        | 1                             | mt       | —                 | —           |
| Holyhead ...                               | 29.51f     | 44           | 44   | SSW           | 1                    | 2                    | SSW        | 9                             | ft       | 0.32              | —           |
| Liverpool ...                              | 29.54—     | —            | —    | SSE           | 1                    | 1                    | SE         | 9                             | ot       | 0.02              | —           |
| Valencia ...                               |            |              |      |               |                      |                      |            |                               |          |                   |             |
| Cape Clear ...                             |            |              |      |               |                      |                      |            |                               |          |                   |             |
| Roche's Point                              | 29.54f     | 44           | 43   | W             | 2                    | 3                    | W          | 6                             | c        | 0.35              | —           |
| Pembroke ...                               | 29.51f     | 44           | 46   | W SW          | 4                    | 3                    | SSE        | 8                             | fg       | 0.54              | —           |
| Penzance ...                               | 29.65f     | 48           | 47   | W SW          | 3                    | 4                    | NNW        | 3                             | c        | 0.07              | —           |
| Plymouth ...                               | 29.64f     | 47           | 46   | W             | 2                    | 2                    | SE         | 5                             | rc       | 0.14              | —           |
| Portsmouth ...                             | 29.67f     | 46           | 45   | SW            | 1                    | 2                    | SSW        | 8                             | cr       | 0.01              | —           |
| London ...                                 | 29.66f     | 47           | 46   | SW            | 2                    | 2                    | SW         | 9                             | fo       | 0.06              | —           |
| Helder ...                                 |            |              |      |               |                      |                      |            |                               |          |                   |             |
| Cape Gris Nez                              |            |              |      |               |                      |                      |            |                               |          |                   |             |
| Brest ...                                  | 29.74f     | 50           | 48   | W             | 3                    | 3                    | W          | 2                             | b        | 0.01              | —           |
| L'Orient ...                               | 29.73f     | 48           | 46   | WNW           | 4                    | 5                    | SW         | 4                             | c        | 0.03              | —           |
| Rochefort ...                              |            |              |      |               |                      |                      |            |                               |          |                   |             |
| Biarritz ...                               |            |              |      |               |                      |                      |            |                               |          |                   |             |
| Corunna ...                                |            |              |      |               |                      |                      |            |                               |          |                   |             |
| Brussels ...                               |            |              |      |               |                      |                      |            |                               |          |                   |             |
| Paris ...                                  |            |              |      |               |                      |                      |            |                               |          |                   |             |
| Strasbourg ...                             |            |              |      |               |                      |                      |            |                               |          |                   |             |
| Lyons ...                                  |            |              |      |               |                      |                      |            |                               |          |                   |             |
| Toulon ...                                 |            |              |      |               |                      |                      |            |                               |          |                   |             |
| Heart's Content<br>(9 a.m. local<br>time.) | 30.00f     | 45           | 43   | E             | 5                    | 7                    | ESE        | 7                             | rf       | 0.14              | —           |

## 2 P.M. REPORT.

|                 |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|
| Skudesnaes ...  |  |  |  |  |  |  |  |  |  |  |  |
| Nairn ...       |  |  |  |  |  |  |  |  |  |  |  |
| Scarborough...  |  |  |  |  |  |  |  |  |  |  |  |
| Greencastle ... |  |  |  |  |  |  |  |  |  |  |  |
| Valencia ..     |  |  |  |  |  |  |  |  |  |  |  |
| Penzance ...    |  |  |  |  |  |  |  |  |  |  |  |
| London...       |  |  |  |  |  |  |  |  |  |  |  |
| Rochefort ...   |  |  |  |  |  |  |  |  |  |  |  |

**BAROMETER** corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER** exposed in shade. **EXTREME FORCE** with its Direction during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l.—lightning; m.—mist (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**, snow hail (melted), during last 24 hours. **SEA DISTURBANCE**: 0—dead calm; 9—extremely high sea.

\* Rainfall is not reported from the Norwegian stations; and their "extremes" are the observations made at 8 pm. on the previous day.



## REMARKS.

Monday

Since Saturday afternoon pressure has increased in the southwest and is higher everywhere: the change, however, has been very slight since yesterday morning and readings are now pretty uniform, L'Orient being 0.3 in. higher than Havre.

Temperature has scarcely changed. Winds continue from the SW and are still very light.

Fog and mist are reported in places and rain has been general. The sea is nearly calm.

## CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

| Date.               | Station.               | Bar.  | Temp. | Wind. | Extreme. | Cloud. | Weather | Rain. | Sea. |
|---------------------|------------------------|-------|-------|-------|----------|--------|---------|-------|------|
| AN: 1 <sup>st</sup> | Christiansund          | 29.54 | 29    | -     | NE 6     | -      | -       | -     | -    |
|                     | Skudesnødt             | 29.40 | 40    | 38    | E 6      | 6      | S       | -     | 6    |
|                     | Oso                    | 29.44 | 37    | 37    | ESE 4    | 8      | SSW     | -     | 3    |
|                     | Helder                 | 29.35 | 39    | -     | S 6      | 4      | -       | -     | 4    |
|                     | L'Orient               | 29.39 | 50    | 50    | SW 7     | 8      | WSW     | 9     | 0.10 |
|                     | Biancity               | 29.77 | 40    | 43    | S 5      | 7      | S       | 3     | 5    |
|                     | Cornoua                | 29.69 | 46    | -     | SW 6     | -      | -       | -     | 8    |
|                     | Brussels               | 29.56 | 46    | -     | WSW 3    | -      | -       | -     | -    |
|                     | Paris                  | 29.63 | 42    | -     | S 6      | -      | -       | -     | -    |
|                     | Pleasantburg           | 29.94 | 36    | -     | SW 3     | -      | -       | -     | -    |
|                     | Lyon                   | 29.92 | 45    | -     | S 3      | -      | -       | -     | -    |
|                     | St. Pierre's Continent | 29.80 | 32    | -     | WSW 5    | 5      | WSW     | 2     | 5    |

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.



EIGHT A.M.

## WEATHER REPORT. 1870

Tues-day

January 4<sup>th</sup>

| STATIONS.                               | Barometer. | Thermometer. |      | Present Wind. |                      | Extreme Wind.        |            | Amount of Cloud.<br>(0 to 9.) | Weather. | Rain.<br>(Inches) | Dis.<br>(0 to 10) |
|---|------------|--------------|------|---------------|----------------------|----------------------|------------|-------------------------------|----------|-------------------|-------------------|
|   |            | Dry.         | Wet. | Direction.    | Force.<br>(0 to 12.) | Force.<br>(0 to 12.) | Direction. |                               |          |                   |                   |
| * Christiansund                         | 29.77      | 33.5         | —    | ENE           | 4                    | 6                    | SE         | —                             | o        | —                 | 2                 |
| * Skudesnaes ...                        | 29.75      | 41           | 40   | SE            | 6                    | 4                    | ESE        | —                             | o        | —                 | 4 taken           |
| * Oxo (Christiansund)                   | 29.83      | 37           | 37   | ENE           | 4                    | 4                    | NE         | —                             | of       | —                 | 10th, extend      |
| Thurso ...                              |            |              |      |               |                      |                      |            |                               |          |                   | 0.7               |
| Wick ...                                | 29.30 f    | 42           | 41   | SSE           | 5                    | 6                    | S          | 8                             | co       | 0.16              | 1                 |
| Nairn ...                               | 29.29 f    | 41           | 39   | SW            | 1                    | 2                    | SW         | 8                             | bco      | 0.03              | 1                 |
| Aberdeen ...                            | 29.39 f    | 42           | 41   | S             | 1                    | 2                    | S          | 9                             | co       | 0.11              | 1                 |
| Leith ...                               | 29.36 f    | 45           | 41   | S             | 3                    | 2                    | E          | 6                             | oc       | 0.03              | 1                 |
| Shields ...                             | 29.47 f    | 42           | 42   | SW            | 4                    | 2                    | SW         | 2                             | rc       | 0.11              | 1                 |
| Scarborough ...                         | 29.56 f    | 44           | 44   | SW            | 3                    | 2                    | SSW        | 2                             | ocb      | 0.09              | 1                 |
| Yarmouth ...                            | 29.73 f    | 45           | 45   | SSW           | 2                    | 3                    | S          | 4                             | c        | —                 | 1                 |
| Ardrossan ...                           | 29.32 f    | 44           | 42   | S             | 4                    | 6                    | SSW        | 7                             | c        | 0.48              | 1                 |
| Greencastle ...                         | 29.26 f    | 43           | 41   | SW            | 2                    | 4                    | SW         | 8                             | ro       | 0.06              | 1                 |
| Holyhead ...                            | 29.41 f    | 40           | 45   | SSW           | 8                    | 3                    | SSW        | 8                             | cr       | 0.27              | 1                 |
| Liverpool ...                           | 29.51 f    | —            | —    | S             | 2                    | 5                    | ESE        | 2                             | ob       | 0.05              | 1                 |
| Valencia ...                            | 29.41 r    | 43           | 41   | W             | 6                    | 7                    | SW         | 8                             | hpg      | 0.23              | 5                 |
| Cape Clear ...                          |            |              |      |               |                      |                      |            |                               |          |                   |                   |
| Roche's Point                           | 29.45 r    | 44           | 43   | WSW           | 8                    | 9                    | SW         | 9                             | rgo      | 0.48              | 6                 |
| Pembroke ...                            | 29.50 f    | 48           | 45   | SW            | 7                    | 7                    | SSW        | 7                             | c        | —                 | 5                 |
| Penzance ...                            | 29.68 r    | 49           | 46   | SW            | 5                    | 7                    | S          | 4                             | bc       | 0.03              | 2                 |
| Plymouth ...                            | 29.72 r    | 50           | 47   | SW            | 3                    | 5                    | SW         | 9                             | co       | 0.04              | 3                 |
| Portsmouth ...                          | 29.77 f    | 48           | 46   | WSW           | 3                    | 4                    | W          | 8                             | co       | 0.44              | 2                 |
| London ...                              | 29.74 f    | 48           | 47   | SW            | 2                    | 3                    | SW         | 9                             | roc      | 0.03              | 1                 |
| Helder ...                              | 29.84      | 43           | —    | S             | 6                    | —                    | —          | —                             | —        | —                 | 4                 |
| Cape Gris Nez                           | 29.87 r    | 46           | 44   | SW            | 5                    | 5                    | SW         | 7                             | co       | —                 | 3                 |
| Brest ...                               | 29.82 r    | 50           | 48   | SW            | 4                    | 5                    | SW         | 8                             | o        | 0.06              | 3                 |
| L'Orient ...                            | 29.82 r    | 50           | 50   | WSW           | 4                    | 7                    | SW         | 9                             | ro       | 0.12              | 3                 |
| Rochefort ...                           | 29.99 f    | 46           | 44   | SW            | 5                    | 5                    | SW         | 9                             | r        | 0.03              | 1                 |
| Biarritz ...                            | 30.06 f    | 52           | 47   | SSE           | 5                    | 5                    | W          | 2                             | mc       | —                 | 5                 |
| Corunna ...                             |            |              |      |               |                      |                      |            |                               |          |                   |                   |
| Brussels ...                            |            |              |      |               |                      |                      |            |                               |          |                   |                   |
| Paris ...                               |            |              |      |               |                      |                      |            |                               |          |                   |                   |
| Strasbourg ...                          |            |              |      |               |                      |                      |            |                               |          |                   |                   |
| Lyons ...                               |            |              |      |               |                      |                      |            |                               |          |                   |                   |
| Toulon ...                              | 30.14 r    | 48           | 41   | WNW           | 1                    | 5                    | NW         | 0                             | cb       | —                 | 4                 |
| Heart's Content<br>(9 a.m. local time.) |            |              |      |               |                      |                      |            |                               |          |                   |                   |

## 2 P.M. REPORT.

|                 |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|
| Skudesnaes ...  |  |  |  |  |  |  |  |  |  |  |  |
| Nairn ...       |  |  |  |  |  |  |  |  |  |  |  |
| Scarborough ... |  |  |  |  |  |  |  |  |  |  |  |
| Greencastle ... |  |  |  |  |  |  |  |  |  |  |  |
| Valencia ...    |  |  |  |  |  |  |  |  |  |  |  |
| Penzance ...    |  |  |  |  |  |  |  |  |  |  |  |
| London ...      |  |  |  |  |  |  |  |  |  |  |  |
| Rochefort ...   |  |  |  |  |  |  |  |  |  |  |  |

**BAROMETER** corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER** exposed in shade. **EXTREME FORCE** with its Direction during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l.—lightning; m.—mist (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**, snow hail (melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

\* Rainfall is not reported from the Norwegian stations; and their "extremes" are the observations made at 8 pm. on the previous day.



## REMARKS.

Tues. day

Since last evening a fresh decrease of barometrical pressure taken place at the British stations - more particularly in the north; but in the south readings are higher than they were yesterday morning. Pressure is lowest at Greenacastle, where it is 0.73 in. less than at Rochefort.

Temperature has risen slightly in Great Britain, and above 40° at all but the Norwegian stations; - 50° at Plymouth.

A SW  $\frac{1}{2}$  gale set in at stations in the Irish Channel during the night, but elsewhere the winds continue light to moderate from the same quarter.

Rain has again been general, but not heavy. The sky is very cloudy. The sea is rough in the SW.

## CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

| Date.   | Station.                    | Bar.   | Temp. |    | Wind.        |   | Extreme. |     | Cloud. | Weather. | Rain. | Sea. |
|---|-----------------------------|--------|-------|----|--------------|---|----------|-----|--------|----------|-------|------|
| N 2 <sup>ND</sup>   | Christiansund               | 29.54  | 35    | 32 | E            | 4 | 4        | ENE | -      | 6        | -     | 2    |
| "   | Skudesnaes                  | 29.55  | 39    | 36 | ESE          | 6 | 0        | Z   | -      | 0        | -     | 4    |
| "   | Oxö.                        | 29.63  | 34    | 33 | NNE          | 6 | 8        | NE  | -      | 0        | -     | 4    |
| N. B. In consequence of an error in the Telegram the above were erroneously entered in the report for the 3 <sup>RD</sup> , instead of the following; |                             |        |       |    |              |   |          |     |        |          |       |      |
| N: 3 <sup>RD</sup>  | Christiansund               | -      | -     | -  | Not received |   | -        | -   | -      | -        | -     | -    |
| "   | Skudesnaes                  | 29.60  | 40    | 39 | Z            | 0 | 8        | ESE | -      | 02       | -     | 4    |
| "   | Oxö                         | 29.67  | 36    | 36 | -            | - | -        | -   | -      | -        | -     | -    |
| "   | Salerno                     | 29.512 | 45    | 43 | WSW          | 3 | 3        | S   | 6      | 6c       | 0.09  | 1    |
| "   | Cape Clear                  | 29.508 | 47    | 45 | SW           | 5 | 4        | SW  | 1      | 06       | 0.11  | 3    |
| "   | Holder                      | 29.76  | 42    | -  | SSW          | 2 | -        | -   | -      | -        | -     | 2    |
| "   | Biarritz                    | 30.092 | 52    | 48 | VV           | 5 | 5        | SSW | 9      | er       | 0.20  | 5    |
| "   | Corunna                     | 30.03  | 50    | -  | NW           | 3 | -        | -   | -      | 0        | -     | 8    |
| "   | Brussels                    | 29.41  | 48    | -  | S            | 3 | -        | -   | -      | c        | -     | -    |
| "   | Paris                       | 29.83  | 44    | -  | SSW          | 2 | -        | -   | -      | 0        | -     | -    |
| "   | Lyon                        | 30.03  | 46    | -  | S            | 3 | -        | -   | -      | 0        | -     | -    |
| "   | Barcelona Cont <sup>E</sup> | 30.43  | 34    | 33 | SSW          | 2 | 3        | N   | 8      | 60       | -     | 4    |

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.



EIGHT A.M.

## WEATHER REPORT. 1870.

January 5<sup>th</sup>

Wednesday

| STATIONS.                                  | Barometer. | Thermometer. |      | Present Wind. |                      | Extreme Wind.        |            | Amount of Cloud.<br>(0 to 9.) | Weather. | Rain.<br>(Inches) | D.<br>(0) |
|--|------------|--------------|------|---------------|----------------------|----------------------|------------|-------------------------------|----------|-------------------|-----------|
|  |            | Dry.         | Wet. | Direction.    | Force.<br>(0 to 12.) | Force.<br>(0 to 12.) | Direction. |                               |          |                   |           |
| *Christiansund                             | 29.49      | 41           | 36   | SE            | 2                    | 4                    | ESE        | —                             | oc       | —                 | 2         |
| *Skudesnaes ...                            | 29.61      | 42           | 41   | S             | 6                    | 6                    | SE         | —                             | o        | —                 | was ye    |
| *Oxo (Christiansund)                       | 29.73      | 40           | 39   | SSE           | 6                    | 6                    | SSE        | —                             | orc      | —                 | showing   |
| Thurso ...                                 |            |              |      |               |                      |                      |            |                               |          |                   | and       |
| Wick ...                                   | 29.362     | 38           | 37   | S             | 4                    | 4                    | SSE        | 7                             | c        | —                 | 3 Wick    |
| Nairn ...                                  | 29.422     | 37           | 35   | SW            | 1                    | 1                    | SW         | 2                             | ocb      | —                 | 1         |
| Aberdeen ...                               | 29.542     | 37           | 36   | SW            | 1                    | 1                    | S          | 4                             | oc       | 0.01              | shore     |
| Leith ...                                  | 29.552     | 41           | 39   | SW            | 3                    | 7                    | SW         | 6                             | c        | 0.05              |           |
| Shields ...                                | 29.622     | 41           | 40   | SE            | 2                    | 6                    | S          | 2                             | c m      | 0.03              | 2         |
| Scarborough ...                            | 29.672     | 41           | 40   | SW            | 3                    | 5                    | SW         | 9                             | co       | 0.03              | 3         |
| Yarmouth ...                               | 29.802     | 45           | 44   | SSW           | 2                    | 3                    | SVV        | 6                             | c        | —                 | 2         |
| Ardrossan ...                              | 29.575     | 42           | 40   | WSW           | 3                    | 7                    | WSW        | 5                             | c        | 0.06              | 3         |
| Greencastle ...                            | 29.552     | 36           | 35   | W             | 2                    | 5                    | WNW        | 1                             | orb      | 0.01              | nearly    |
| Holyhead ...                               | 29.652     | 43           | 42   | SW            | 5                    | 9                    | SSW        | 7                             | c        | 0.15              |           |
| Liverpool ...                              | 29.512     | —            | —    | S             | 2                    | 5                    | ESE        | 2                             | ob       | —                 | 1         |
| Valencia ...                               | 29.702     | 42           | 40   | N             | 3                    | 4                    | WNW        | 6                             | clp      | 0.22              | 4         |
| Cape Clear ...                             |            |              |      |               |                      |                      |            |                               |          |                   |           |
| Roche's Point                              | 29.702     | 38           | 36   | W             | 1                    | 8                    | WSW        | 2                             | gfb      | 0.04              | 2         |
| Pembroke ...                               | 29.692     | 45           | 43   | WSW           | 4                    | 7                    | SVV        | 4                             | c        | 0.14              | 3         |
| Penzance ...                               | 29.772     | 45           | 43   | WSW           | 1                    | 5                    | SW         | 6                             | c        | 0.20              | 1         |
| Plymouth ...                               | 29.792     | 47           | 46   | Z             | 0                    | 3                    | WSW        | 9                             | co       | 0.21              | 3         |
| Portsmouth ...                             | 29.792     | 48           | 47   | WSW           | 2                    | 4                    | WSW        | 9                             | or       | 0.39              | 1         |
| London ...                                 | 29.782     | 48           | 48   | WSW           | 1                    | 4                    | SVV        | 9                             | omr      | 0.15              |           |
| Helder ...                                 | 29.88      | 46           | —    | SSW           | 6                    | —                    | —          | —                             | —        | —                 | 5         |
| Cape Gris Nez                              | 29.872     | 46           | 44   | WSW           | 4                    | 5                    | SW         | 9                             | or       | —                 | 2         |
| Brest ...                                  | 29.842     | 48           | 46   | WSW           | 3                    | 4                    | SVV        | 9                             | fo       | 0.02              | 2         |
| L'Orient ...                               | 29.822     | 48           | 46   | W             | 3                    | 4                    | SW         | 9                             | er       | 0.13              | 4         |
| Rochefort ...                              | 30.022     | 43           | 41   | S             | 5                    | 4                    | S          | 9                             | or       | —                 | 1         |
| Biarritz ...                               | 30.082     | 45           | 41   | SE            | 4                    | 4                    | S          | 5                             | c        | —                 | 4         |
| Corunna ...                                |            |              |      |               |                      |                      |            |                               |          |                   |           |
| Brussels ...                               |            |              |      |               |                      |                      |            |                               |          |                   |           |
| Paris ...                                  |            |              |      |               |                      |                      |            |                               |          |                   |           |
| Strasbourg ...                             |            |              |      |               |                      |                      |            |                               |          |                   |           |
| Lyons ...                                  |            |              |      |               |                      |                      |            |                               |          |                   |           |
| Toulon ...                                 | 30.292     | 45           | 45   | ENE           | 1                    | 3                    | SSE        | 8                             | co       | —                 | 3         |
| Heart's Content<br>(9 a.m. local<br>time.) |            |              |      |               |                      |                      |            |                               |          |                   |           |

## 2 P.M. REPORT.

|                 |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|
| Skudesnaes ...  |  |  |  |  |  |  |  |  |  |  |  |
| Nairn ...       |  |  |  |  |  |  |  |  |  |  |  |
| Scarborough ... |  |  |  |  |  |  |  |  |  |  |  |
| Greencastle ... |  |  |  |  |  |  |  |  |  |  |  |
| Valencia ...    |  |  |  |  |  |  |  |  |  |  |  |
| Penzance ...    |  |  |  |  |  |  |  |  |  |  |  |
| London ...      |  |  |  |  |  |  |  |  |  |  |  |
| Rochefort ...   |  |  |  |  |  |  |  |  |  |  |  |

**BAROMETER** corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER** exposed in shade. **EXTREME FORCE** with its Direction during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l.—lightning; m.—mist (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**, snow (melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

\* Rainfall is not reported from the Norwegian stations; and their "extremes" are the observations made at 8 pm. on the previous day.



## REMARKS.

Wednesday

Barometrical pressure is greater at all our stations than it was yesterday morning, the rise being chief on our W<sup>th</sup> coasts; but during the night readings have decreased somewhat in England and France. Pressure still remains lowest in the north, that at Vich being 0.66 in: lower than that at Rochefort.

Temperature has fallen slightly, except in the southeast, where there is no change. Aberdeen is 11° colder than London.

The wind has fallen light everywhere; and though variable in our Islands is principally from the SW<sup>wd</sup>.

Rain has again fallen at most stations, and the sky has since cleared considerably except in the SE of England and in France - where it is overcast, with rain. The sea is nearly calm.

## CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

| Date.               | Station.        | Bar.   | Temp. |    | Wind. |   | Extreme. |    | Cloud. | Weather. | Rain. | Sea. |
|---------------------|-----------------|--------|-------|----|-------|---|----------|----|--------|----------|-------|------|
| JAN 4 <sup>TH</sup> | Cape Clear      | 29.442 | 45    | 43 | WSW   | 9 | 6        | SW | 7      | ret      | 0.65  | 6    |
| "                   | Corunna         | 29.94  | 52    | -  | N     | 3 | -        | -  | -      | 2        | -     | 8    |
| "                   | Brussels        | -      | 49    | -  | SSW   | 4 | -        | -  | -      | 0        | -     | -    |
| "                   | Paris           | 30.00  | 47    | -  | SE    | 1 | -        | -  | -      | 02       | -     | -    |
| "                   | Strasbourg      | 30.26  | 40    | -  | SVV   | 3 | -        | -  | -      | c        | -     | -    |
| "                   | Lyon            | 30.20  | 45    | -  | S     | 3 | -        | -  | -      | f        | -     | -    |
| "                   | Heart's Content | 29.787 | 47    | 47 | SSW   | 2 | 7        | S  | 9      | f 0      | 0.26  | 4    |

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.



EIGHT A.M.

## WEATHER REPORT. 1870.

January 6<sup>th</sup>

day

| STATIONS.                                  | Barometer. | Thermometer. |      | Present Wind. |                      | Extreme Wind.        |            | Amount of Cloud.<br>(0 to 9.) | Weather. | Rain.<br>(Inches) | Dis.<br>(0) |
|--|------------|--------------|------|---------------|----------------------|----------------------|------------|-------------------------------|----------|-------------------|-------------|
|  |            | Dry.         | Wet. | Direction.    | Force.<br>(0 to 12.) | Force.<br>(0 to 12.) | Direction. |                               |          |                   |             |
| * Christiansund                            | 29.27      | 33           | 31   | ESE           | 2                    | —                    | —          | —                             | b        | —                 | 4           |
| * Skudesnaes ...                           | 29.43      | 38           | 37   | WSW           | 6                    | 6                    | SSE        | —                             | o 2      | —                 | 7           |
| * Oxo (Christiansand)                      | 29.47      | 38           | 37   | WSW           | 4                    | 4                    | E          | —                             | o f 2    | —                 | 2           |
| Thurso ...                                 |            |              |      |               |                      |                      |            |                               |          |                   | Wick        |
| Wick ...                                   | 29.352     | 36           | 35   | SSW           | 2                    | 3                    | S          | 4                             | c        | —                 | 2           |
| Nairn ...                                  | 29.442     | 36           | 35   | SW            | 1                    | 2                    | SW         | 1                             | cb       | —                 | 1           |
| Aberdeen ...                               | 29.482     | 35           | 34   | SSW           | 1                    | 2                    | S          | 3                             | c        | —                 | 1           |
| Leith ...                                  | 29.538     | 40           | 39   | SW            | 2                    | 3                    | W          | 8                             | b m      | —                 |             |
| Shields ...                                | 29.528     | 38           | 38   | SW            | 2                    | 2                    | SW         | 5                             | m        | —                 | 2           |
| Scarborough ...                            | 29.668     | 39           | 38   | SW            | 3                    | 2                    | WSW        | 9                             | co       | —                 | 3           |
| Yarmouth ...                               | 29.852     | 39           | 39   | SSW           | 2                    | 4                    | S          | 2                             | rc       | 0.36              | 2           |
| Ardrossan ...                              | 29.528     | 43           | 41   | SW            | 1                    | 5                    | WSW        | 7                             | co       | 0.04              | 3           |
| Greencastle ...                            | 29.488     | 40           | 39   | SW            | 1                    | 2                    | WSW        | 6                             | bc       | —                 |             |
| Holyhead ...                               | 29.628     | 45           | 44   | SSW           | 6                    | 4                    | SW         | 9                             | cr       | 0.15              |             |
| Liverpool ...                              | 29.638     | —            | —    | SSE           | 4                    | 2                    | SSE        | 8                             | o        | 0.01              | 1           |
| Valencia ...                               | 29.548     | 47           | 45   | SW            | 3                    | 4                    | SSW        | 9                             | ahf      | 0.42              | 1           |
| Cape Clear ...                             | 29.448     | 48           | 47   | SW            | 5                    | 5                    | SW         | 7                             | c        | 0.26              | 4           |
| Roche's Point                              | 29.578     | 47           | 47   | WSW           | 6                    | 6                    | WSW        | 7                             | p 2      | 0.28              | 4           |
| Pembroke ...                               | 29.678     | 47           | 45   | SSW           | 5                    | 5                    | WSW        | 8                             | cp 9     | 0.05              | 4           |
| Penzance ...                               | 29.758     | 47           | 45   | SSW           | 4                    | 5                    | WSW        | 6                             | c        | 0.02              | 4           |
| Plymouth ...                               | 29.818     | 47           | 46   | SSW           | 3                    | 5                    | WSW        | 9                             | cho      | 0.07              | 3           |
| Portsmouth ...                             | 29.862     | 44           | 42   | SW            | 2                    | 4                    | SW         | 8                             | o        | 0.07              | 1           |
| London ...                                 | 29.862     | 43           | 41   | WSW           | 2                    | 2                    | SW         | 7                             | hrc      | 0.16              |             |
| Helder ...                                 | 29.88      | 42           | —    | SW            | 6                    | —                    | —          | —                             | —        | —                 | 4           |
| Cape Gris Nez                              | 29.922     | 41           | 41   | SW            | 5                    | 5                    | WSW        | 6                             | rc       | 0.10              | 3           |
| Brest ...                                  | 29.828     | 48           | 46   | SSW           | 4                    | 4                    | SSW        | 3                             | cb       | —                 | 3           |
| L'Orient ...                               | 29.858     | 46           | 46   | SW            | 4                    | 4                    | W          | 9                             | co       | 0.07              | 3           |
| Rochefort ...                              | 30.008     | 45           | 43   | S             | 5                    | 4                    | S          | 9                             | co       | 0.01              | 1           |
| Biarritz ...                               | 30.048     | 52           | 47   | S             | 3                    | 3                    | E          | 8                             | co       | —                 | 6           |
| Corunna ...                                |            |              |      |               |                      |                      |            |                               |          |                   |             |
| Brussels ...                               |            |              |      |               |                      |                      |            |                               |          |                   |             |
| Paris ...                                  |            |              |      |               |                      |                      |            |                               |          |                   |             |
| Strasbourg ...                             |            |              |      |               |                      |                      |            |                               |          |                   |             |
| Lyons ...                                  |            |              |      |               |                      |                      |            |                               |          |                   |             |
| Toulon ...                                 | 30.208     | 46           | 46   | SE            | 5                    | 4                    | SSE        | 8                             | f o      | —                 | 5           |
| Heart's Content<br>(9 a.m. local<br>time.) |            |              |      |               |                      |                      |            |                               |          |                   |             |

## 2 P.M. REPORT.

|                 |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|
| Skudesnaes ...  |  |  |  |  |  |  |  |  |  |  |  |
| Nairn ...       |  |  |  |  |  |  |  |  |  |  |  |
| Scarborough ... |  |  |  |  |  |  |  |  |  |  |  |
| Greencastle ... |  |  |  |  |  |  |  |  |  |  |  |
| Valencia ..     |  |  |  |  |  |  |  |  |  |  |  |
| Penzance ...    |  |  |  |  |  |  |  |  |  |  |  |
| London ...      |  |  |  |  |  |  |  |  |  |  |  |
| Rochefort ...   |  |  |  |  |  |  |  |  |  |  |  |

**BAROMETER** corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER** exposed in shade. **EXTREME FORCE** with its Direction during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l.—lightning; m.—mist (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**, snow hail (melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

\* Rainfall is not reported from the Norwegian stations; and their "extremes" are the observations made at 8 pm. on the previous day.



# REMARKS.

Thurs. day

The distribution of pressure over our Islands differs very little from that of yesterday; though readings have fallen somewhat in the west since last evening, and also in Norway. Pressure at Wick is now 0.65 in: less than that at Rochefort.

Temperature has increased on the western coasts, but fallen in the east and northeast. Brest is 13° warmer than Aberdeen.

The wind continues light everywhere, but has become rather more S<sup>W</sup> than it was yesterday.

Rain has fallen except in the north and east, - hail at Plymouth and London. The sky is again overcast. The sea is moderate in the south, calm elsewhere.

## CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

| Date.                                     | Station.        | Bar.   | Temp. |    | Wind. |   | Extreme. |     | Cloud. | Weather | Rain. | Sea. |
|---|-----------------|--------|-------|----|-------|---|----------|-----|--------|---------|-------|------|
| AN:<br>5 <sup>TH</sup>                    | Cape Clear      | 29.662 | 43    | 41 | W     | 5 | 3        | W   | 4      | c       | 0.24  | 4    |
| "   | Brussels        | 29.93  | 50    | -  | SSE   | 3 | -        | -   | -      | fc      | -     | -    |
| 5   | Paris           | 30.01  | 44    | -  | S     | 2 | -        | -   | -      | o       | -     | -    |
| "   | Strasbourg      | 30.26  | 35    | -  | S     | 3 | -        | -   | -      | b       | -     | -    |
| "   | Lyon's          | 30.17  | 45    | -  | S     | 3 | -        | -   | -      | b       | -     | -    |
| "   | Heart's Content | 29.792 | 37    | 35 | WSW   | 3 | 5        | S   | 5      | fb c    | 0.15  | 5    |
| <u>Correction - of telegraphic error.</u> |                 |        |       |    |       |   |          |     |        |         |       |      |
| "   | Liverpool       | 29.678 | -     | -  | SSE   | 2 | 5        | SSE | 4      | c       | 0.04  | 1    |

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.



EIGHT A.M.

## WEATHER REPORT. 1870.

January 7<sup>th</sup>

Friday

| STATIONS.                                  | Barometer.         | Thermometer. |      | Present Wind. |                      | Extreme Wind.        |            | Amount of Cloud.<br>(0 to 9.) | Weather. | Rain.<br>(Inches) |
|--|--------------------|--------------|------|---------------|----------------------|----------------------|------------|-------------------------------|----------|-------------------|
|  |                    | Dry.         | Wet. | Direction.    | Force.<br>(0 to 12.) | Force.<br>(0 to 12.) | Direction. |                               |          |                   |
| *Christiansund                             | 29.24              | 35           | 33   | ESE           | 6                    | 6                    | ESE        | —                             | ab       | —                 |
| *Skudesnaes ...                            | 29.15              | 41           | 39   | SE            | 6                    | 6                    | SW         | —                             | o        | —                 |
| *Oxo (Christiansund)                       | 29.29              | 39           | 39   | SSE           | 6                    | 2                    | NNW        | —                             | o        | —                 |
| Thurso ...                                 |                    |              |      |               |                      |                      |            |                               |          |                   |
| Wick ...                                   | 28.85 <sup>f</sup> | 39           | 38   | NW            | 3                    | 5                    | SSE        | 8                             | cz       | 0.20              |
| Nairn ...                                  | 28.93 <sup>f</sup> | 35           | 34   | SW            | 2                    | 1                    | SW         | 9                             | o        | 0.09              |
| Aberdeen ...                               | 28.89 <sup>f</sup> | 38           | 37   | W             | 1                    | 2                    | SSW        | 8                             | bo       | 0.10              |
| Leith ...                                  | 29.01 <sup>f</sup> | 42           | 40   | W             | 6                    | 5                    | SW         | 2                             | ob       | 0.20              |
| Shields ...                                | 29.11 <sup>f</sup> | 41           | 40   | W             | 6                    | 8                    | W          | 2                             | c        | —                 |
| Scarborough ...                            | 29.19 <sup>f</sup> | 41           | 40   | W             | 4                    | 6                    | SW         | 2                             | ob       | 0.24              |
| Yarmouth ...                               | 29.37 <sup>f</sup> | 42           | 41   | WSW           | 5                    | 7                    | SW         | 2                             | c        | 0.16              |
| Ardrossan ...                              | 29.14 <sup>f</sup> | 46           | 42   | WNW           | 4                    | 8                    | SW         | 7                             | c        | 0.65              |
| Greencastle ...                            | 29.26 <sup>f</sup> | 42           | 40   | SW            | 4                    | 1                    | SSW        | 5                             | zc       | 0.27              |
| Holyhead ...                               | 29.35 <sup>f</sup> | 44           | 42   | WSW           | 6                    | 8                    | SSW        | 5                             | zgc      | 0.55              |
| Liverpool ...                              | 29.34 <sup>f</sup> | —            | —    | WSW           | 4                    | 7                    | SSE        | 4                             | oc       | 0.16              |
| Valencia ...                               | 29.46 <sup>f</sup> | 47           | 45   | WSW           | 3                    | 6                    | W          | 9                             | lo       | 0.35              |
| Cape Clear ...                             | 29.47 <sup>f</sup> | 48           | 47   | SW            | 5                    | 7                    | WSW        | 9                             | mo       | 0.20              |
| Roche's Point                              | 29.47 <sup>f</sup> | 45           | 43   | W             | 3                    | 7                    | SW         | 9                             | o        | 0.20              |
| Pembroke ...                               | 29.47 <sup>f</sup> | 48           | 46   | WSW           | 7                    | 7                    | S          | 8                             | o        | 0.15              |
| Penzance ...                               | 29.64 <sup>f</sup> | 49           | 47   | WSW           | 2                    | 6                    | SSW        | 8                             | co       | 0.25              |
| Plymouth ...                               | 29.65 <sup>f</sup> | 47           | 45   | W             | 2                    | 5                    | SSW        | 7                             | c        | 0.23              |
| Portsmouth ...                             | 29.58 <sup>f</sup> | 44           | 42   | WNW           | 3                    | 6                    | SW         | 6                             | oc       | 0.10              |
| London ...                                 | 29.50 <sup>f</sup> | 43           | 41   | W             | 3                    | 7                    | S          | 7                             | zbc      | 0.09              |
| Helder ...                                 | 29.28              | 44           | —    | WSW           | 7                    | —                    | —          | —                             | —        | —                 |
| Cape Gris Nez                              | 29.50 <sup>f</sup> | 46           | 42   | W             | 7                    | 5                    | WSW        | 5                             | c        | 0.03              |
| Brest ...                                  | 29.77 <sup>f</sup> | 50           | 50   | WSW           | 4                    | 7                    | SW         | 9                             | f        | 0.05              |
| L'Orient ...                               | 29.82 <sup>f</sup> | 50           | 48   | WSW           | 5                    | 7                    | SW         | 9                             | zo       | 0.05              |
| Rochefort ...                              | 30.00 <sup>f</sup> | 50           | 48   | W             | 7                    | 4                    | WSW        | 9                             | cz       | 0.04              |
| Biarritz ...                               | 30.20 <sup>f</sup> | 52           | 48   | W             | 5                    | 4                    | S          | 8                             | om       | —                 |
| Corunna ...                                |                    |              |      |               |                      |                      |            |                               |          |                   |
| Brussels ...                               |                    |              |      |               |                      |                      |            |                               |          |                   |
| Paris ...                                  |                    |              |      |               |                      |                      |            |                               |          |                   |
| Strasbourg ...                             |                    |              |      |               |                      |                      |            |                               |          |                   |
| Lyons ...                                  |                    |              |      |               |                      |                      |            |                               |          |                   |
| Toulon ...                                 | 30.11 <sup>f</sup> | 46           | 44   | WNW           | 4                    | 4                    | SSE        | 4                             | zc       | 0.01              |
| Heart's Content<br>(9 a.m. local<br>time.) |                    |              |      |               |                      |                      |            |                               |          |                   |

## 2 P.M. REPORT.

|                 |  |  |  |  |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|--|--|--|--|
| Skudesnaes ...  |  |  |  |  |  |  |  |  |  |  |
| Nairn ...       |  |  |  |  |  |  |  |  |  |  |
| Scarborough ... |  |  |  |  |  |  |  |  |  |  |
| Greencastle ... |  |  |  |  |  |  |  |  |  |  |
| Valencia ..     |  |  |  |  |  |  |  |  |  |  |
| Penzance ...    |  |  |  |  |  |  |  |  |  |  |
| London ...      |  |  |  |  |  |  |  |  |  |  |
| Rochefort ...   |  |  |  |  |  |  |  |  |  |  |

**BAROMETER** corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direct motion of the mercury within last 14 hours. **THERMOMETER** exposed in shade. **EXTREME FORCE** with its Direction last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l.—lightning; m.—(hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**, during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

\* Rainfall is not reported from the Norwegian stations; and their "extremes" are the observations made at 8 pm. on the previous day.



# REMARKS.

Fri. day

The decrease of pressure noticed in the west yesterday afternoon became very considerable during the night, and has passed rapidly across the north of our Islands towards Norway. A subsequent recovery is reported from all but the eastern stations. The lowest reading is at Wick, and is 1.15 ins lower than that at Rochefort.

Temperature has risen slightly at most stations.

The wind became strong from SW over the British Isles and the northwest of France last night, reaching the force 8 at Holyhead, Ardrossan and Shields, but has since veered and subsided. At the west western stations there appears a tendency to "back" again.

Rain has been general, with lightning at Valencia. The sky is clear on the east coast but has again become overcast in the west and southwest. The sea is moderate.

Warnings issued to our western coasts this morning.

## CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

| Date.           | Station.        | Bar.   | Temp. |   | Wind. |   | Extreme. |    | Cloud. | Weather. | Rain. | Sea. |
|-----------------|-----------------|--|-------|---|-------|---|----------|----|--------|----------|-------|------|
| JAN:            |                 |  |       |   |       |   |          |    |        |          |       |      |
| 6 <sup>TH</sup> | Brunels         | 29.99  | 46    | - | SW    | 3 | -        | -  | -      | rc       | -     | -    |
| -               | Paris           | 30.04  | 42    | - | S     | 2 | -        | -  | -      | or       | -     | -    |
| -               | Strasbourg      | 30.22  | 40    | - | W     | 3 | -        | -  | -      | c        | -     | -    |
| -               | Lyon            | 30.12  | 47    | - | NE    | 3 | -        | -  | -      | c        | -     | -    |
| -               | Heart's Content | 29.912   | 31    | - | NW    | 4 | 4        | NW | 4      | bse      | 0.09  | 5    |
| -               | Cape Clear      | The barometer reading appears doubtful for the 6 <sup>th</sup> . |       |   |       |   |          |    |        |          |       |      |

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.



EIGHT A.M.

WEATHER REPORT. 1870. *January 8<sup>th</sup>**Saturday day*

| STATIONS.                               | Barometer. | Thermometer. |      | Present Wind. |                      | Extreme Wind.        |            | Amount of Cloud.<br>(0 to 9.) | Weather. | Rain.<br>(Inches) | Direction. |
|---|------------|--------------|------|---------------|----------------------|----------------------|------------|-------------------------------|----------|-------------------|------------|
|   |            | Dry.         | Wet. | Direction.    | Force.<br>(0 to 12.) | Force.<br>(0 to 12.) | Direction. |                               |          |                   |            |
| * Christiansund                         |            |              |      |               |                      |                      |            | —                             |          | —                 |            |
| * Skudesnaes ...                        |            |              |      |               |                      |                      |            | —                             |          | —                 |            |
| * Oxo (Christiansund)                   |            |              |      |               |                      |                      |            | —                             |          | —                 |            |
| Thurso ...                              |            |              |      |               |                      |                      |            |                               |          |                   |            |
| Wick ...                                | 28.728     | 39           | 38   | E             | 5                    | 4                    | NW         | 8                             | ca       | 0.15              |            |
| Nairn ...                               | 28.661     | 37           | 36   | ESE           | 1                    | 2                    | SW         | 9                             | ber      | 0.18              |            |
| Aberdeen ...                            | 28.642     | 42           | 41   | S             | 1                    | 1                    | W          | 9                             | br       | 0.28              |            |
| Leith ...                               | 28.562     | 40           | 39   | SE            | 2                    | 6                    | WNW        | 6                             | c        | 0.44              |            |
| Shields ...                             | 28.592     | 44           | 43   | SW            | 2                    | 4                    | SW         | 5                             | rc       | 0.38              |            |
| Scarborough ...                         | 28.752     | 45           | 43   | SSW           | 6                    | 7                    | SW         | 9                             | co       | 0.08              |            |
| Yarmouth ...                            | 29.142     | 47           | 45   | SSW           | 5                    | 6                    | SW         | 2                             | c        | —                 |            |
| Ardrossan ...                           | 28.562     | 43           | 42   | NNE           | 1                    | 5                    | WSW        | 8                             | ro       | 0.57              |            |
| Greencastle ...                         | 28.622     | 43           | 43   | NW            | 3                    | 4                    | SW         | 9                             | emr      | 0.23              |            |
| Holyhead ...                            | 28.582     | 47           | 45   | SSW           | 8                    | 6                    | SSW        | 9                             | o        | 0.45              |            |
| Liverpool ...                           | 28.672     | —            | —    | SW            | 3                    | 7                    | SSE        | 8                             | tlo      | 0.26              |            |
| Valencia ...                            | 29.032     | 49           | 47   | NW            | 8                    | 11                   | NW         | 8                             | ro       | 0.81              |            |
| Cape Clear ...                          |            |              |      |               |                      |                      |            |                               |          |                   |            |
| Roche's Point                           | 28.902     | 45           | 45   | WNW           | 9                    | 10                   | SSW        | 9                             | z        | 0.82              |            |
| Pembroke ...                            | 28.722     | 47           | 47   | WSW           | 11                   | 10                   | SSW        | 9                             | o        | 0.20              |            |
| Penzance ...                            | 29.192     | 48           | 45   | SW            | 10                   | 10                   | SW         | 8                             | rog      | 0.20              |            |
| Plymouth ...                            | 29.182     | 49           | 45   | W             | 11                   | 11                   | W          | 9                             | co       | 0.26              |            |
| Portsmouth ...                          | 29.232     | 47           | 43   | WSW           | 8                    | 6                    | WSW        | 7                             | rc       | 0.15              |            |
| London ...                              | 29.172     | 48           | 44   | WSW           | 8                    | 9                    | WSW        | 7                             | rgc      | 0.05              |            |
| Helder ...                              | 29.22      | 46           | —    | SW            | 7                    | —                    | —          | —                             | —        | —                 |            |
| Cape Gris Nez                           |            |              |      |               |                      |                      |            |                               |          |                   |            |
| Brest ...                               | 29.382     | 52           | 45   | WSW           | 9                    | 11                   | WSW        | 7                             | f        | 0.05              |            |
| L'Orient ...                            | 29.582     | 50           | 46   | WSW           | 9                    | 8                    | WSW        | 6                             | rc       | 0.04              |            |
| Rochefort ...                           | 30.052     | 52           | 50   | SW            | 5                    | 5                    | SW         | 9                             | z        | 0.02              |            |
| Biarritz ...                            | 30.072     | 55           | 50   | W             | 7                    | 4                    | SW         | 6                             | f        | —                 |            |
| Corunna ...                             |            |              |      |               |                      |                      |            |                               |          |                   |            |
| Brussels ...                            |            |              |      |               |                      |                      |            |                               |          |                   |            |
| Paris ...                               |            |              |      |               |                      |                      |            |                               |          |                   |            |
| Strasbourg ...                          |            |              |      |               |                      |                      |            |                               |          |                   |            |
| Lyons ...                               |            |              |      |               |                      |                      |            |                               |          |                   |            |
| Toulon ...                              | 30.082     | 48           | 48   | S             | 3                    | 5                    | WNW        | 5                             | f        | —                 |            |
| Heart's Content<br>(9 a.m. local time.) |            |              |      |               |                      |                      |            |                               |          |                   |            |

## 2 P.M. REPORT.

|                 |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|
| Skudesnaes ...  |  |  |  |  |  |  |  |  |  |  |  |
| Nairn ...       |  |  |  |  |  |  |  |  |  |  |  |
| Scarborough ... |  |  |  |  |  |  |  |  |  |  |  |
| Greencastle ... |  |  |  |  |  |  |  |  |  |  |  |
| Valencia ..     |  |  |  |  |  |  |  |  |  |  |  |
| Penzance ...    |  |  |  |  |  |  |  |  |  |  |  |
| London ...      |  |  |  |  |  |  |  |  |  |  |  |
| Rochefort ...   |  |  |  |  |  |  |  |  |  |  |  |

**BAROMETER** corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER** exposed in shade. **EXTREME FORCE** with its Direction during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l.—lightning; m.—mist (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**, snow hail (melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

\* Rainfall is not reported from the Norwegian stations; and their "extremes" are the observations made at 8 pm. on the previous day.



# REMARKS.

Saturday

The diminution of pressure which showed itself at Valencia yesterday afternoon has advanced in a NE<sup>ly</sup> direction, and the lowest reported (about 28.6 ins.) is now in the north of England. To the northward of this district readings vary but little, whilst to the southward they increase suddenly; that at Rochefort exceeding by nearly 1.5 ins. those at Holyhead and Ardrossan.

Temperature has risen a little on the south and east coasts but fallen slightly in the north.

The wind is apparently circulating round the centre of depression; blowing hard gales from WNW at Roches Point and WSW in the Channel and France, fresh from SSW in the E of England, and light from the E<sup>nd</sup> in Scotland. (\*Only the Irish reports has arrived at present - 11.40 am.)

Rain has fallen everywhere, with thunder and lightning at Liverpool; and it continues raining in Scotland. The weather overcast and very unsettled generally. The sea is high on the southern coasts.

Warnings were sent yesterday to the South and West, this morning to the East and North.

## CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

| Date.           | Station.        | Bar.               | Temp. |    | Wind. |   | Extreme. |     | Cloud. | Weather | Rain. | Sea. |
|-----------------|-----------------|--------------------|-------|----|-------|---|----------|-----|--------|---------|-------|------|
| 7 <sup>th</sup> | Corunna         | 30.18              | 52    | -  | -     | 6 | -        | -   | -      | o       | -     | 2    |
|                 | Brunels         | 29.49              | 48    | -  | SW    | 6 | -        | -   | -      | nc      | -     | -    |
|                 | Paris           | 29.73              | 50    | -  | W     | 6 | -        | -   | -      | e       | -     | -    |
|                 | Strasbourg      | 29.93              | 46    | -  | WSW   | 6 | -        | -   | -      | o       | -     | -    |
|                 | Lyon            | 30.04              | 45    | -  | S     | 3 | -        | -   | -      | z       | -     | -    |
|                 | Heart's Content | 30.25 <sub>n</sub> | 36    | 36 | SSW   | 1 | 4        | WNW | 8      | bo      | -     | 3    |

\* The remaining telegrams arrived soon after this.

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.



EIGHT A.M.

## WEATHER REPORT. 1870.

Sun-day

January 9<sup>th</sup>

| STATIONS.                                  | Barometer. | Thermometer. |      | Present Wind. |                      | Extreme Wind.        |            | Amount of Cloud.<br>(0 to 9.) | Weather. | Rain.<br>(Inches) | Sea<br>Dist.<br>(0 to 10) |
|--|------------|--------------|------|---------------|----------------------|----------------------|------------|-------------------------------|----------|-------------------|---------------------------|
|  |            | Dry.         | Wet. | Direction.    | Force.<br>(0 to 12.) | Force.<br>(0 to 12.) | Direction. |                               |          |                   |                           |
| *Christiansund                             | 28.94      | ? 36         | —    | ESE           | 2                    | 6                    | ESE        | —                             | o        | —                 | 3                         |
| *Skudesnaes ...                            | 28.91      | 38           | 37   | NNE           | 2                    | 6                    | SSE        | —                             | ob       | —                 | 4                         |
| *Oxo (Christiansund)                       | 28.84      | 37           | 37   | N             | 6                    | 6                    | SSE        | —                             | ro       | —                 | 3                         |
| Thurso ...                                 |            |              |      |               |                      |                      |            |                               |          |                   |                           |
| Wick ...                                   | 29.29 r    | 38           | 37   | NNW           | 3                    | 4                    | E          | 6                             | rc       | 0.50              |                           |
| Nairn ...                                  |            |              |      |               |                      |                      |            |                               |          |                   |                           |
| Aberdeen ...                               | 29.30 r    | 38           | 37   | NNW           | 2                    | 1                    | SSE        | 5                             | oc       | 0.15              |                           |
| Leith ...                                  | 29.36 r    | 40           | 39   | NNW           | 2                    | 2                    | NW         | 6                             | cm       | 0.10              |                           |
| Shields ...                                |            |              |      |               |                      |                      |            |                               |          |                   |                           |
| Scarborough ...                            | 29.27 r    | 38           | 37   | W             | 2                    | 8                    | SSW        | 2                             | rob      | 0.06              |                           |
| Yarmouth ...                               | 29.36 r    | 44           | 44   | SW            | 4                    | 9                    | SW         | 6                             | ro       | 0.24              |                           |
| Ardrossan ...                              | 29.40 r    | 41           | 38   | NNW           | 3                    | 4                    | NW         | 5                             | c        | 0.15              |                           |
| Greencastle ...                            | 29.54 r    | 43           | 39   | N             | 4                    | 5                    | NW         | 5                             | rc       | 0.34              |                           |
| Holyhead ...                               | 29.32 r    | 42           | 41   | WNW           | 8                    | 9                    | WSW        | 9                             | or       | 0.11              |                           |
| Liverpool ...                              | 29.27 r    | —            | —    | SW            | 1                    | 7                    | SW         | 9                             | or       | 0.22              |                           |
| Valencia ...                               | 29.66 r    | 38           | 36   | NW            | 5                    | 8                    | WNW        | 5                             | hcf      | 0.09              | 5                         |
| Cape Clear ...                             |            |              |      |               |                      |                      |            |                               |          |                   |                           |
| Roche's Point                              | 29.53 r    | 44           | 42   | NW            | 7                    | 9                    | WNW        | 6                             | oc       | 0.09              | 4                         |
| Pembroke ...                               | 29.33 r    | 44           | 42   | WNW           | 7                    | 11                   | WSW        | 9                             | o        | 0.29              | 4                         |
| Penzance ...                               | 29.48 r    | 46           | 44   | NW            | 8                    | 10                   | SW         | 6                             | hpg      | 0.37              | 4                         |
| Plymouth ...                               | 29.40 s    | 45           | 43   | N             | 1                    | 11                   | W          | 7                             | pc       | 0.36              | 4                         |
| Portsmouth ...                             | 29.40 r    | 43           | 41   | W             | 2                    | 10                   | WSW        | 6                             | oc       | 0.07              | 4                         |
| London ...                                 | 29.37 r    | 44           | 42   | W             | 1                    | 10                   | WSW        | 9                             | gbo      | 0.09              | 4                         |
| Helder ...                                 | 29.36      | 44           | —    | SW            | 3                    | —                    | —          | —                             | —        | —                 | 3                         |
| Cape Gris Nez                              | 29.42 r    | 45           | 45   | WSW           | 7                    | 11                   | WSW        | 9                             | r        | 0.02              | 4                         |
| Brest ...                                  | 29.60 r    | 48           | 44   | WNW           | 5                    | 9                    | WSW        | 6                             | o        | 0.03              | 4                         |
| L'Orient ...                               | 29.60 r    | 45           | 43   | W             | 7                    | 8                    | WSW        | 7                             | c        | 0.09              | 7                         |
| Rochefort ...                              | 29.83 r    | 48           | 46   | SW            | 8                    | 8                    | SW         | 9                             | cr       | 0.07              | 3                         |
| Biarritz ...                               | 30.02 f    | 48           | 46   | SE            | 3                    | 3                    | W          | 5                             | f        | —                 | 7                         |
| Corunna ...                                | 30.01      | 51           | —    | NNW           | 9                    | —                    | —          | —                             | r        | —                 | 8                         |
| Brussels ...                               | 29.58      | 46           | —    | SW            | 6                    | —                    | —          | —                             | c        | —                 | —                         |
| Paris ...                                  | 29.63      | 43           | —    | SW            | 7                    | —                    | —          | —                             | o        | —                 | —                         |
| Strasbourg ...                             | 29.96      | 46           | —    | SW            | 3                    | —                    | —          | —                             | c        | —                 | —                         |
| Lyons ...                                  | 29.82      | 36           | —    | S             | 3                    | —                    | —          | —                             | c        | —                 | —                         |
| Toulon ...                                 | 30.04 f    | 48           | 46   | SSW           | 4                    | 3                    | S          | 7                             | mf       | —                 | 4                         |
| Heart's Content<br>(9 a.m. local<br>time.) | 29.72 f    | 34           | 33   | S             | 1                    | 6                    | W          | 6                             | sc       | 0.24              | 4                         |

## 2 P.M. REPORT.

|                 |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|
| Skudesnaes ...  |  |  |  |  |  |  |  |  |  |  |  |
| Nairn ...       |  |  |  |  |  |  |  |  |  |  |  |
| Scarborough ... |  |  |  |  |  |  |  |  |  |  |  |
| Greencastle ... |  |  |  |  |  |  |  |  |  |  |  |
| Valencia ..     |  |  |  |  |  |  |  |  |  |  |  |
| Penzance ...    |  |  |  |  |  |  |  |  |  |  |  |
| London ...      |  |  |  |  |  |  |  |  |  |  |  |
| Rochefort ...   |  |  |  |  |  |  |  |  |  |  |  |

**BAROMETER** corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER** exposed in shade. **EXTREME FORCE** with its Direction during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l.—lightning; m.—mist (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**, snow (hail melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

\* Rainfall is not reported from the Norwegian stations; and their "extremes" are the observations made at 8 pm. on the previous day.

Date.



day

*Reports received too late for insertion in their proper places.*

DIRECTOR.



EIGHT A.M.

WEATHER REPORT. 1870. *January 10<sup>th</sup>**Mon-day*

| STATIONS.                               | Barometer. | Thermometer. |      | Present Wind. |                      | Extreme Wind.        |            | Amount of Cloud.<br>(0 to 9.) | Weather. | Rain.<br>(Inches) | Dir.<br>(0 to 10) |
|---|------------|--------------|------|---------------|----------------------|----------------------|------------|-------------------------------|----------|-------------------|-------------------|
|   |            | Dry.         | Wet. | Direction.    | Force.<br>(0 to 12.) | Force.<br>(0 to 12.) | Direction. |                               |          |                   |                   |
| * Christiansund                         | 29.12      | 33           | —    | ESE           | 4                    | 2                    | ESE        | —                             | o        | —                 | 4                 |
| * Skudesnaes ...                        | 29.29      | 36           | 35   | NW            | 2                    | 0                    | Z          | —                             | ob       | —                 | 3                 |
| * Oxo (Christiansund)                   | 29.23      | 33           | 32   | NNE           | 2                    | 4                    | ?WNW       | —                             | oc       | —                 | 2                 |
| Thurso ...                              |            |              |      |               |                      |                      |            |                               |          |                   |                   |
| Wick ...                                | 29.61r     | 34           | 32   | NNW           | 4                    | 4                    | NNW        | 4                             | c        | 0.05              | 3                 |
| Nairn ...                               | 29.72r     | 32           | —    | WNW           | 2                    | 1                    | NW         | 0                             | ob       | —                 | 1                 |
| Aberdeen ...                            | 29.69r     |              |      | NNW           | 1                    | 3                    | NNW        | 1                             | cb       | —                 | 2                 |
| Leith ...                               | 29.71r     | 32           | —    | WNW           | 2                    | 3                    | NW         | 1                             | bm       | —                 | —                 |
| Shields ...                             | 29.70r     | 33           | 32   | NNW           | 2                    | 2                    | NW         | 2                             | c        | 0.13              | 4                 |
| Scarborough ...                         | 29.70r     | 32           | —    | WNW           | 1                    | 5                    | N          | 1                             | cb       | 0.16              | 3                 |
| Yarmouth ...                            | 29.72r     | 32           |      | WNW           | 2                    | 3                    | SW         | 2                             | cm       | —                 | 3                 |
| Ardrossan ...                           | 29.79r     | 35           | 33   | NNW           | 2                    | 2                    | NW         | 3                             | c        | —                 | 1                 |
| Greencastle ...                         | 29.84r     | 37           | 35   | NW            | 1                    | 4                    | N          | 5                             | rc       | 0.02              | —                 |
| Holyhead ...                            | 29.77r     | 40           | 37   | NNW           | 3                    | 8                    | NNW        | 7                             | oc       | —                 | —                 |
| Liverpool ...                           | 29.75      | —            | —    | NW            | 2                    | 2                    | WNW        | 9                             | on       | —                 | 1                 |
| Valencia ...                            | 29.90r     | 39           | 37   | NNE           | 3                    | 6                    | NW         | 2                             | hpb      | 0.08              | 2                 |
| Cape Clear ...                          |            |              |      |               |                      |                      |            |                               |          |                   |                   |
| Roche's Point                           | 29.86r     | 35           | 33   | NNE           | 1                    | 7                    | NW         | 1                             | cb       | —                 | 1                 |
| Pembroke ...                            | 29.77r     | 36           | 35   | WNW           | 3                    | 7                    | WNW        | 4                             | c        | —                 | 1                 |
| Penzance ...                            | 29.74f     | 40           | 39   | NNE           | 2                    | 8                    | NW         | 4                             | ghc      | 0.10              | 3                 |
| Plymouth ...                            | 29.78r     | 37           | 35   | Z             | 0                    | 7                    | NW         | 5                             | cpf      | 0.02              | 3                 |
| Portsmouth ...                          | 29.76r     | 36           | 34   | N             | 1                    | 4                    | WNW        | 3                             | oc       | —                 | 1                 |
| London ...                              | 29.76r     | 34           | 33   | W             | 1                    | 3                    | NW         | 7                             | opo      | 0.03              | —                 |
| Helder ...                              |            |              |      |               |                      |                      |            |                               |          |                   |                   |
| Cape Gris Nez                           |            |              |      |               |                      |                      |            |                               |          |                   |                   |
| Brest ...                               | 29.63f     | 43           | 41   | ESE           | 3                    | 5                    | WNW        | 9                             | on       | 0.06              | 2                 |
| L'Orient ...                            | 29.66f     | 43           | 41   | SSW           | 3                    | 7                    | WNW        | 9                             | cn       | 0.02              | 4                 |
| Rochefort ...                           | 29.89f     | 43           | 41   | W             | 7                    | 6                    | W          | 9                             | n        | 0.05              | 3                 |
| Biarritz ...                            | 30.04f     | 48           | 46   | SW            | 8                    | 8                    | WSW        | 9                             | tr       | 0.32              | 7                 |
| Corunna ...                             |            |              |      |               |                      |                      |            |                               |          |                   |                   |
| Brussels ...                            |            |              |      |               |                      |                      |            |                               |          |                   |                   |
| Paris ...                               |            |              |      |               |                      |                      |            |                               |          |                   |                   |
| Strasbourg ...                          |            |              |      |               |                      |                      |            |                               |          |                   |                   |
| Lyons ...                               |            |              |      |               |                      |                      |            |                               |          |                   |                   |
| Toulon ...                              | 29.88f     | 45           | 41   | W             | 5                    | 4                    | E          | 7                             | mf       | —                 | 5                 |
| Heart's Content<br>(9 a.m. local time.) |            |              |      |               |                      |                      |            |                               |          |                   |                   |

## 2 P.M. REPORT.

|                 |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|
| Skudesnaes ...  |  |  |  |  |  |  |  |  |  |  |  |
| Nairn ...       |  |  |  |  |  |  |  |  |  |  |  |
| Scarborough ... |  |  |  |  |  |  |  |  |  |  |  |
| Greencastle ... |  |  |  |  |  |  |  |  |  |  |  |
| Valencia ..     |  |  |  |  |  |  |  |  |  |  |  |
| Penzance ...    |  |  |  |  |  |  |  |  |  |  |  |
| London ...      |  |  |  |  |  |  |  |  |  |  |  |
| Rochefort ...   |  |  |  |  |  |  |  |  |  |  |  |

**BAROMETER** corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER** exposed in shade. **EXTREME FORCE** with its Direction during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l.—lightning; m.—mist (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**, snow hail (melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

\* Rainfall is not reported from the Norwegian stations; and their "extremes" are the observations made at 8 pm. on the previous day.

Date.

JAN:

8<sup>TH</sup>



# REMARKS.

Mon-day

Yesterday morning the barometrical depression noticed on Saturday had passed off our north-east coast, and a considerable recovery in pressure had taken place at all our stations. To day this recovery has continued in the north of the British Isles, but at Penzance and in the west of France a decrease has set in during the night. Readings are low in Norway but very uniform about our Islands, that at Valenud being but 0.27 in. above that at Brest, and 0.29 in. above that at Wick.

Temperature has fallen at all stations, especially in the east, where it is lowest. Yarmouth is 11° colder than Brest.

The winds have gradually veered and moderated since Saturday, and to-day light N to NW breezes are general in the British Islands, and strong SW winds in the Bay of Biscay. It blew hard from the NW in the Irish sea last night.

Rain has fallen everywhere - hail at Penzance. Thunder is reported from Biarritz. The sky has since cleared very much on our coasts, but is overcast with rain in France. The sea is high in the Bay of Biscay.

## CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

| Date.                | Station.                 | Bar.   | Temp. |    | Wind. |   | Extreme. |    | Cloud. | Weather. | Rain. | Sea. |
|----------------------|--------------------------|--------|-------|----|-------|---|----------|----|--------|----------|-------|------|
| JAN: 8 <sup>th</sup> | Brussels                 | 29.45  | 51    | —  | SW    | 9 | —        | —  | —      | σ        | —     | —    |
| —                    | Paris                    | 29.64  | 50    | —  | SSW   | 1 | —        | —  | —      | c        | —     | —    |
| —                    | Strasbourg               | 29.96  | 53    | —  | SW    | 6 | —        | —  | —      | σ        | —     | —    |
| 5                    | Lyons                    | 30.04  | 47    | —  | S     | 3 | —        | —  | —      | n        | —     | —    |
| —                    | Hearts Cont <sup>d</sup> | 29.82f | 36    | 33 | W     | 6 | 7        | SW | 6      | c        | 0.28  | 7    |

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.



EIGHT A.M.

## WEATHER REPORT. 1870. January 11

Tues. day

| STATIONS.                                  | Barometer.         | Thermometer. |      | Present Wind. |                      | Extreme Wind.        |            | Amount of Cloud.<br>(0 to 9.) | Weather. | Rain.<br>(Inches) |
|--|--------------------|--------------|------|---------------|----------------------|----------------------|------------|-------------------------------|----------|-------------------|
|  |                    | Dry.         | Wet. | Direction.    | Force.<br>(0 to 12.) | Force.<br>(0 to 12.) | Direction. |                               |          |                   |
| * Christiansund                            |                    |              |      |               |                      |                      |            | —                             |          | —                 |
| * Skudesnaes ...                           |                    |              |      |               |                      |                      |            | —                             |          | —                 |
| * Oxo (Christiansund)                      |                    |              |      |               |                      |                      |            | —                             |          | —                 |
| Thurso ...                                 |                    |              |      |               |                      |                      |            |                               |          |                   |
| Wick ...                                   | 29.67 <sup>2</sup> | 31           | —    | SSW           | 2                    | 3                    | NNW        | 7                             | sc       | 0.07              |
| Nairn ...                                  | 29.74 <sup>2</sup> | 30           | —    | Z             | 0                    | 2                    | VNW        | 1                             | bm       | —                 |
| Aberdeen ...                               | 29.79 <sup>2</sup> | 30           | —    | W             | 1                    | 1                    | NNW        | 4                             | bm       | —                 |
| Leith ...                                  | 29.83 <sup>2</sup> | 31           | —    | VV            | 1                    | 2                    | VNW        | 0                             | bf       | —                 |
| Shields ...                                | 29.88 <sup>2</sup> | 31           | —    | SW            | 2                    | 2                    | SW         | 5                             | an       | —                 |
| Scarborough ...                            | 29.94 <sup>5</sup> | 31           | —    | W             | 1                    | 1                    | NNW        | 6                             | bc       | —                 |
| Yarmouth ...                               | 30.01 <sup>2</sup> | 30           | —    | SW            | 2                    | 3                    | W          | 3                             | cm       | —                 |
| Ardrossan ...                              | 29.83 <sup>2</sup> | 39           | 37   | S             | 4                    | 2                    | NW         | 6                             | c        | —                 |
| Greencastle ...                            | 29.69 <sup>2</sup> | 35           | 35   | SSW           | 3                    | 4                    | NW         | 9                             | r        | 0.22              |
| Holyhead ...                               | 29.93 <sup>2</sup> | 40           | 37   | WSW           | 3                    | 5                    | NNW        | 8                             | co       | —                 |
| Liverpool ...                              | 29.95              | —            | —    | SSE           | 2                    | 1                    | W          | 8                             | bo       | —                 |
| Valencia ...                               | 29.93 <sup>2</sup> | 50           | 48   | NW            | 4                    | 3                    | W          | 9                             | zo       | 0.18              |
| Cape Clear ...                             |                    |              |      |               |                      |                      |            |                               |          |                   |
| Roche's Point                              | 29.90 <sup>2</sup> | 45           | 45   | SW            | 5                    | 5                    | SW         | 9                             | br       | 0.28              |
| Pembroke ...                               | 29.98 <sup>2</sup> | 43           | 40   | SSW           | 5                    | 5                    | NW         | 6                             | c        | —                 |
| Penzance ...                               | 30.05 <sup>2</sup> | 41           | 38   | SW            | 4                    | 4                    | N          | 8                             | co       | —                 |
| Plymouth ...                               | 30.10 <sup>2</sup> | 35           | 33   | Z             | 0                    | 4                    | N          | —                             | cf       | —                 |
| Portsmouth ...                             | 30.08 <sup>2</sup> | 31           | —    | Z             | 0                    | 2                    | NNE        | 3                             | c        | —                 |
| London ...                                 | 30.07 <sup>2</sup> | 30           | —    | Z             | 0                    | 2                    | NW         | 0                             | cbm      | —                 |
| Helder ...                                 | 29.98              | 37           | —    | W             | 2                    | —                    | —          | —                             | —        | —                 |
| Cape Gris Nez                              | 30.09 <sup>2</sup> | 36           | 34   | N             | 3                    | 4                    | N          | 3                             | cf       | —                 |
| Brest ...                                  | 30.14 <sup>2</sup> | 45           | 40   | WSW           | 3                    | 4                    | SE         | 6                             | zo       | 0.06              |
| L'Orient ...                               |                    |              |      |               |                      |                      |            |                               |          |                   |
| Rochefort ...                              | 30.24 <sup>2</sup> | 39           | 39   | S             | 5                    | 5                    | S          | 9                             | r        | 0.09              |
| Biarritz ...                               | 30.27 <sup>2</sup> | 46           | 44   | ?             | 8                    | 9                    | SW         | 5                             | zc       | 0.35              |
| Corunna ...                                |                    |              |      |               |                      |                      |            |                               |          |                   |
| Brussels ...                               |                    |              |      |               |                      |                      |            |                               |          |                   |
| Paris ...                                  |                    |              |      |               |                      |                      |            |                               |          |                   |
| Strasbourg ...                             |                    |              |      |               |                      |                      |            |                               |          |                   |
| Lyons ...                                  |                    |              |      |               |                      |                      |            |                               |          |                   |
| Toulon ...                                 | 29.88 <sup>2</sup> | 41           | 36   | VNW           | 5                    | 7                    | VNW        | 4                             | cb       | —                 |
| Heart's Content<br>(9 a.m. local<br>time.) |                    |              |      |               |                      |                      |            |                               |          |                   |

## 2 P.M. REPORT.

|                 |  |  |  |  |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|--|--|--|--|
| Skudesnaes ...  |  |  |  |  |  |  |  |  |  |  |
| Nairn ...       |  |  |  |  |  |  |  |  |  |  |
| Scarborough ... |  |  |  |  |  |  |  |  |  |  |
| Greencastle ... |  |  |  |  |  |  |  |  |  |  |
| Valencia ..     |  |  |  |  |  |  |  |  |  |  |
| Penzance ...    |  |  |  |  |  |  |  |  |  |  |
| London ...      |  |  |  |  |  |  |  |  |  |  |
| Rochefort ...   |  |  |  |  |  |  |  |  |  |  |

**BAROMETER** corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER** exposed in shade. **EXTREME FORCE** with its Direction during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l.—lightning; m.—mist (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**, snow hail (melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

\* Rainfall is not reported from the Norwegian stations; and their "extremes" are the observations made at 8 pm. on the previous day.



## REMARKS.

Tues. day

Barometrical pressure has recovered rapidly from the depression noticed on the French coasts yesterday, and has increased at all stations in Great Britain; but in the night a fresh decrease has shown itself at our western and northern stations, exceeding a quarter of an inch at Greenacastle. Readings are now lowest in the northwest, that at Greenacastle being less by 0.55 in., and at Wick by 0.57 in. than that at Rochefort.

Temperature has fallen a little more in the east; but has risen rapidly in the south of Ireland, and at Pembroke. Valencia is 20° warmer than London.

The wind has backed everywhere; and is moderate from the S<sup>W</sup> except in the Channel, where it is calm.

The sky has become very cloudy in the west, with rain on the Irish coasts. The sea is moderate.

## CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

| Date.                    | Station.     | Bar.   | Temp. |    | Wind. |   | Extreme. |    | Cloud. | Weather | Rain. | Sea. |
|--------------------------|--------------|--|-------|----|-------|---|----------|----|--------|---------|-------|------|
| JAN:<br>10 <sup>TH</sup> | Cape Clear   | 29.852   | 37    | 36 | NE    | 3 | 3        | N  | 0      | c 6     | 0.05  | 2    |
| "                        | Keldar       | 29.62  | 41    | -  | WNW   | 3 | -        | -  | -      | -       | -     | 2    |
| "                        | Comuna       | 30.12  | 51    | -  | SW    | 9 | -        | -  | -      | 2       | -     | 8    |
| "                        | Brisvals     | 29.72  | 42    | -  | SW    | 3 | -        | -  | -      | 0 2     | -     | -    |
| "                        | Paris        | 29.83  | 39    | -  | WSW   | 2 | -        | -  | -      | 0       | -     | -    |
| "                        | Strasbourg   | 29.95  | 44    | -  | W     | 6 | -        | -  | -      | c 2     | -     | -    |
| "                        | Lyon         | 29.96  | 45    | -  | SE    | 3 | -        | -  | -      | 0       | -     | -    |
| "                        | Hearts Coast | 30.417   | 22    | -  | W     | 3 | 9        | SW | 5      | c       | -     | 5    |
| 9 <sup>TH</sup>          | Straine      | 29.322   | 38    | 37 | NW    | 1 | 3        | NE | 8      | 0       | 0.30  | 2    |
| <u>Correction</u>        |              |  |       |    |       |   |          |    |        |         |       |      |
| 10 <sup>TH</sup>         | Aberdeen     | -  | 34    | 33 | -     | - | -        | -  | -      | -       | -     | -    |
| "                        | Rochefort    | The 2 <sup>pm</sup> Barometer reading of the 10 <sup>th</sup> seems erroneous. |       |    |       |   |          |    |        |         |       |      |
| 8 <sup>TH</sup>          | Pembroke     | -  | -     | -  | -     | - | -        | -  | -      | -       | 0.43  | -    |

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.



EIGHT A.M.

## WEATHER REPORT. 1870.

January 12

Wednesday

| STATIONS.                                  | Barometer. | Thermometer. |      | Present Wind. |                      | Extreme Wind.        |            | Amount of Cloud.<br>(0 to 9.) | Weather. | Rain.<br>(Inches) | Dist.<br>(0 to 10) |
|--|------------|--------------|------|---------------|----------------------|----------------------|------------|-------------------------------|----------|-------------------|--------------------|
|  |            | Dry.         | Wet. | Direction.    | Force.<br>(0 to 12.) | Force.<br>(0 to 12.) | Direction. |                               |          |                   |                    |
| * Christiansund                            |            |              |      |               |                      |                      |            | —                             |          | —                 |                    |
| * Skudesnaes ...                           |            |              |      |               |                      |                      |            | —                             |          | —                 |                    |
| * OXO (Christiansund)                      |            |              |      |               |                      |                      |            | —                             |          | —                 |                    |
| Thurso ...                                 |            |              |      |               |                      |                      |            |                               |          |                   |                    |
| Wick ...                                   | 29.13 f    | 36           | 34   | WSW           | 5                    | 4                    | S          | 7                             | zc       | 0.17              | 3                  |
| Nairn ...                                  | 29.27 f    | 34           | 32   | WSW           | 3                    | 6                    | W          | 6                             | pse      | 0.13              | 2                  |
| Aberdeen ...                               | 29.34 f    | 33           | 31   | WSW           | 1                    | 3                    | S          | 4                             | pse      | 0.02              | 1                  |
| Leith ...                                  | 29.46 f    | 34           | 33   | W             | 5                    | 7                    | W          | 4                             | pge      | 0.14              | 5                  |
| Shields ...                                | 29.59 f    | 34           | 33   | W             | 3                    | 8                    | WNW        | 2                             | c        | —                 | 5                  |
| Scarborough ...                            | 29.56 f    | 34           | 33   | W             | 3                    | 5                    | W          | 7                             | oc       | 0.04              | 3                  |
| Yarmouth ...                               | 29.63 f    | 36           | 35   | WSW           | 2                    | 4                    | SW         | 6                             | m        | —                 | 2                  |
| Ardrossan ...                              | 29.53 f    | 39           | 34   | W             | 4                    | 9                    | NW         | 5                             | hpc      | 0.48              | 4                  |
| Greencastle ...                            | 29.58 f    | 35           | 33   | W             | 2                    | 7                    | WNW        | 6                             | rsc      | 0.30              | 4                  |
| Holyhead ...                               | 29.64 f    | 39           | 36   | WNW           | 6                    | 7                    | WNW        | 7                             | c        | 0.16              | —                  |
| Liverpool ...                              | 29.65 f    | —            | —    | WNW           | 5                    | 2                    | WNW        | 9                             | or       | 0.07              | 2                  |
| Valencia ...                               | 29.96 f    | 42           | 40   | N             | 8                    | 10                   | NNW        | 6                             | lgs      | 0.22              | 7                  |
| Cape Clear ...                             | 29.95 f    | 39           | 37   | NW            | 6                    | 7                    | NW         | 4                             | gpc      | 0.30              | 5                  |
| Roche's Point                              | 29.92 f    | 35           | 35   | W             | 5                    | 8                    | NW         | 7                             | gsc      | 0.30              | 3                  |
| Pembroke ...                               | 29.78 f    | 41           | 38   | WNW           | 8                    | 8                    | WNW        | 7                             | og       | 0.24              | 4                  |
| Penzance ...                               | 29.94 f    | 44           | 41   | NW            | 6                    | 7                    | NW         | 6                             | mc       | 0.26              | 4                  |
| Plymouth ...                               | 29.91 f    | 40           | 39   | NW            | 3                    | 7                    | NW         | 3                             | hgc      | 0.55              | 3                  |
| Portsmouth ...                             | 29.80 f    | 41           | 39   | NW            | 3                    | 5                    | NW         | 7                             | ole      | 0.23              | 3                  |
| London ...                                 | 29.74 f    | 37           | 36   | W             | 3                    | 4                    | NW         | 7                             | rbc      | 0.15              | —                  |
| Helder ...                                 | 29.71      | 41           | —    | WSW           | 6                    | —                    | —          | —                             | —        | —                 | 4                  |
| Cape Gris Nez                              | 29.73 f    | 43           | 43   | W             | 5                    | 5                    | W          | 9                             | z        | 0.02              | 4                  |
| Brest ...                                  | 30.04 f    | 48           | 44   | WNW           | 5                    | 5                    | WNW        | 7                             | o        | 0.07              | 3                  |
| L'Orient ...                               | 30.06 f    | 46           | 44   | W             | 5                    | 5                    | WSW        | 9                             | cl       | 0.04              | 4                  |
| Rochefort ...                              | 30.22 f    | 46           | 44   | SW            | 4                    | 3                    | S          | 9                             | ter      | 0.03              | 1                  |
| Biarritz ...                               | 30.38 f    | 52           | 50   | W             | 4                    | 5                    | N          | 9                             | co       | 0.03              | 5                  |
| Corunna ...                                |            |              |      |               |                      |                      |            |                               |          |                   |                    |
| Brussels ...                               |            |              |      |               |                      |                      |            |                               |          |                   |                    |
| Paris ...                                  |            |              |      |               |                      |                      |            |                               |          |                   |                    |
| Strasbourg ...                             |            |              |      |               |                      |                      |            |                               |          |                   |                    |
| Lyons ...                                  |            |              |      |               |                      |                      |            |                               |          |                   |                    |
| Toulon ...                                 | 30.14 f    | 39           | 35   | NW            | 4                    | 5                    | NNW        | 6                             | cf       | —                 | 4                  |
| Heart's Content<br>(9 a.m. local<br>time.) |            |              |      |               |                      |                      |            |                               |          |                   |                    |

## 2 P.M. REPORT.

|                 |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|
| Skudesnaes ...  |  |  |  |  |  |  |  |  |  |  |  |
| Nairn ...       |  |  |  |  |  |  |  |  |  |  |  |
| Scarborough ... |  |  |  |  |  |  |  |  |  |  |  |
| Greencastle ... |  |  |  |  |  |  |  |  |  |  |  |
| Valencia ...    |  |  |  |  |  |  |  |  |  |  |  |
| Penzance ...    |  |  |  |  |  |  |  |  |  |  |  |
| London ...      |  |  |  |  |  |  |  |  |  |  |  |
| Rochefort ...   |  |  |  |  |  |  |  |  |  |  |  |

BAROMETER corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. THERMOMETER exposed in shade. EXTREME FORCE with its Direction during last 24 hours. Z.—calm. WEATHER: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l.—lightning; m.—mist (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. RAIN-FALL, snow (melted), during last 24 hours. SEA DISTURBANCE: 0=dead calm; 9=extremely high sea.

\* Rainfall is not reported from the Norwegian stations; and their "extremes" are the observations made at 8 pm. on the previous day.



## REMARKS.

Wednesday

Barometrical pressure has decreased considerably in our Islands, especially in the NE. of Scotland, where the fall exceeds half an inch: At stations in the south of Ireland, however, readings though lower than they were last evening are rather higher than those reported yesterday morning. Pressure is now lowest at Wick, where it is 1.09 in: less than that at Rochefort.

Temperature has increased except in the south of Ireland, where it has fallen about  $10^{\circ}$ . It is now irregular but generally lowest in the north.

The winds veered to W and NW yesterday, and during the night blew a gale on our western coasts and at Shields. At Valencia and Pembroke this gale continues but elsewhere the wind is moderate and backing again towards SW.

Rain sleet and hail have been general in the W and North, with thunder and lightning at several SW<sup>n</sup> stations. The weather continues very cloudy and unsettled, with a high sea at Valencia.

Warnings were issued to the W, N, and NE coasts yesterday.

## CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

*Reports received too late for insertion in their proper places.*

| Date.                | Station.        | Bar.      | Temp. |    | Wind. |   | Extreme. |    | Cloud. | Weather | Rain. | Sea. |
|----------------------|-----------------|-----------|-------|----|-------|---|----------|----|--------|---------|-------|------|
| JAN 11 <sup>TH</sup> | Christiansund   | 29.49     | 36    | 35 | SSW   | 4 | 8        | W  | -      | o       | -     | 5    |
| "                    | Hudoness        | 29.58     | 37    | 36 | NW    | 4 | 4        | NW | -      | b or    | -     | 3    |
| "                    | Oxö             | 29.52     | 36    | 35 | SW    | 6 | 4        | SW | -      | cb      | -     | 2    |
| "                    | Cape Clear      | 29.86 1/2 | 47    | 46 | SW    | 4 | 2        | NE | 9      | b r     | 0.29  | 3    |
| "                    | * L' Orient     | 30.062    | 36    | 34 | N     | 3 | 4        | N  | 3      | cf      | -     | 1    |
| "                    | Brussels        | 30.062    | 38    | -  | SW    | 3 | -        | -  | -      | e       | -     | -    |
| "                    | Paris           | 30.15     | 32    | -  | NNW   | 2 | -        | -  | -      | b       | -     | -    |
| "                    | Strasbourg      | 30.18     | 37    | -  | NW    | - | -        | -  | -      | o       | -     | -    |
| "                    | Heart's Content | 30.21 1/2 | 34    | 34 | S     | 4 | 4        | S  | 8      | cs      | -     | 4    |

*Meteorological Office,*

ROBERT H. SCOTT.

DIRECTOR.



EIGHT A.M.

WEATHER REPORT. 1870. *January 13<sup>th</sup>**Thurs. day*

| STATIONS.                                  | Barometer. | Thermometer. |      | Present Wind. |                      | Extreme Wind.        |            | Amount of Cloud.<br>(0 to 9.) | Weather. | Rain.<br>(Inches) | Sea Dist.<br>(0 to 10) |
|--|------------|--------------|------|---------------|----------------------|----------------------|------------|-------------------------------|----------|-------------------|------------------------|
|  |            | Dry.         | Wet. | Direction.    | Force.<br>(0 to 12.) | Force.<br>(0 to 12.) | Direction. |                               |          |                   |                        |
| *Christiansund                             | 29.55      | 30           | -    | Z             | 0                    | 4                    | SSE        | -                             | cs       | -                 | 5                      |
| *Skudesnaes ...                            | 29.55      | 31           | -    | WNW           | 2                    | 4                    | ESE        | -                             | oc       | -                 | 4                      |
| *Oxø (Christiansund)                       | 29.54      | 26           | -    | NNW           | 2                    | 6                    | SW         | -                             | 20       | -                 | 2                      |
| Thurso ...                                 |            |              |      |               |                      |                      |            |                               |          |                   |                        |
| Wick ...                                   | 29.652     | 34           | 33   | NNW           | 2                    | 5                    | NNW        | 6                             | 2c       | 0.21              | 2                      |
| Nairn ...                                  | 29.692     | 32           | -    | Z             | 0                    | 6                    | WSW        | 2                             | b        | 0.23              | 1                      |
| Aberdeen ...                               | 29.722     | 34           | 33   | NW            | 1                    | 7                    | NW         | 1                             | eb       | 0.06              | 2                      |
| Leith ...                                  | 29.732     | 35           | 33   | W             | 2                    | 6                    | W          | 2                             | cm       | -                 | -                      |
| Shields ...                                | -          | 35           | 34   | NW            | 2                    | 2                    | NW         | 2                             | cm       | -                 | 4                      |
| Scarborough ...                            | ? 29.692   | 34           | 33   | WNW           | 2                    | 3                    | WNW        | 1                             | eb       | -                 | 2                      |
| Yarmouth ...                               | 29.772     | 34           | 33   | WSW           | 2                    | 4                    | WNW        | 2                             | cm       | -                 | 2                      |
| Ardrossan ...                              | 29.762     | 35           | 33   | NE            | 2                    | 6                    | NW         | 4                             | cm       | 0.02              | 3                      |
| Greencastle ...                            | 29.762     | 35           | 34   | WNW           | 1                    | 4                    | WNW        | 9                             | so       | 0.25              | -                      |
| Holyhead ...                               | 29.822     | 39           | 37   | W             | 2                    | 8                    | WNW        | 8                             | co       | -                 | -                      |
| Liverpool ...                              | 29.792     | -            | -    | W             | 2                    | 7                    | WNW        | 3                             | fc       | -                 | 1                      |
| Valencia ...                               | 29.69      | 44           | 43   | S             | 5                    | 9                    | N          | 9                             | sr       | 0.19              | 4                      |
| Cape Clear ...                             | 29.718     | 46           | 45   | S             | 5                    | 6                    | NW         | 9                             | er       | 0.35              | 3                      |
| Roche's Point                              | 29.788     | 43           | 43   | SE            | 5                    | 7                    | NW         | 9                             | ogr      | 0.05              | 4                      |
| Pembroke ...                               | 29.838     | 43           | 40   | Z             | 0                    | 8                    | W          | 8                             | co       | -                 | 3                      |
| Penzance ...                               | 29.878     | 43           | 41   | SSW           | 2                    | 7                    | NW         | 9                             | mo       | 0.06              | 2                      |
| Plymouth ...                               | 29.918     | 39           | 37   | SE            | 1                    | 5                    | WNW        | 9                             | cl       | 0.05              | 0                      |
| Portsmouth ...                             | 29.905     | 35           | 34   | Z             | 0                    | 6                    | NW         | 7                             | c        | 0.01              | 0                      |
| London ...                                 | 29.872     | 34           | 33   | W             | 1                    | 6                    | NW         | 4                             | pbm      | 0.01              | -                      |
| Helder ...                                 | 29.71      | 40           | -    | SW            | 6                    | -                    | -          | -                             | -        | -                 | 4                      |
| Cape Gris Nez                              | 29.882     | 41           | 37   | W             | 5                    | 7                    | N          | 3                             | e        | -                 | 3                      |
| Brest ...                                  | 29.908     | 45           | 45   | E             | 1                    | 5                    | WNW        | 9                             | ome      | 0.11              | 3                      |
| L'Orient ...                               | 29.838     | 50           | 50   | ? WNW         | 7                    | 5                    | W          | 9                             | er       | 0.15              | 6                      |
| Rochefort ...                              |            |              |      |               |                      |                      |            |                               |          |                   |                        |
| Biarritz ...                               |            |              |      |               |                      |                      |            |                               |          |                   |                        |
| Corunna ...                                |            |              |      |               |                      |                      |            |                               |          |                   |                        |
| Brussels ...                               |            |              |      |               |                      |                      |            |                               |          |                   |                        |
| Paris ...                                  |            |              |      |               |                      |                      |            |                               |          |                   |                        |
| Strasbourg ...                             |            |              |      |               |                      |                      |            |                               |          |                   |                        |
| Lyons ...                                  |            |              |      |               |                      |                      |            |                               |          |                   |                        |
| Toulon ...                                 | 30.102     | 41           | 36   | NNW           | 5                    | 7                    | NW         | 2                             | b        | -                 | 6                      |
| Heart's Content<br>(9 a.m. local<br>time.) |            |              |      |               |                      |                      |            |                               |          |                   |                        |

## 2 P.M. REPORT.

|                 |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|
| Skudesnaes ...  |  |  |  |  |  |  |  |  |  |  |  |
| Nairn ...       |  |  |  |  |  |  |  |  |  |  |  |
| Scarborough ... |  |  |  |  |  |  |  |  |  |  |  |
| Greencastle ... |  |  |  |  |  |  |  |  |  |  |  |
| Valencia ..     |  |  |  |  |  |  |  |  |  |  |  |
| Penzance ...    |  |  |  |  |  |  |  |  |  |  |  |
| London ...      |  |  |  |  |  |  |  |  |  |  |  |
| Rochefort ...   |  |  |  |  |  |  |  |  |  |  |  |

**BAROMETER** corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER** exposed in shade. **EXTREME FORCE** with its Direction during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l.—lightning; m.—mist (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**, snow (hail melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

\* Rainfall is not reported from the Norwegian stations; and their "extremes" are the observations made at 8 pm. on the previous day.



## REMARKS.

Thurs day

During the night barometrical pressure has recovered from the depression noticed in the north of our Islands yesterday, the rise at Wick exceeding 0.6 in: since 6 pm. At the same time there has been a sudden decrease at Valencia and in the W. of France, extending to the west coast of England. Readings are at present very uniform at our stations, but apparently altering quickly.

Temperature is little changed beyond a rise in the S. of Ireland.

The N<sup>ly</sup> gales of yesterday have disappeared in the night, and in the S. of Ireland their place has been taken by moderate S<sup>ly</sup> breezes, with rain. Elsewhere light variable winds and calms are general.

Smoke has fallen in the N and W. The sky is clear in the N and E, overcast in the south with rain — and lightning at Plymouth. The sea is moderate.

These rapid changes in pressure show that the atmosphere is still disturbed.

## CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

| Date.                    | Station.        | Bar.   | Temp. |    | Wind. |   | Extreme. |     | Cloud. | Weather | Rain. | Sea. |
|--------------------------|-----------------|--------|-------|----|-------|---|----------|-----|--------|---------|-------|------|
| JAN:<br>12 <sup>th</sup> | Christiansund   | 29.33  | 28    | -  | ESE   | 4 | 0        | 2   | -      | co      | -     | 5    |
| "                        | Skudsmoes       | 29.20  | 37    | 34 | ESE   | 4 | 2        | SSE | -      | o       | -     | 4    |
| "                        | Oxö             | 29.25  | 36    | 36 | SE    | 6 | 4        | SW  | -      | co      | -     | 2    |
| "                        | Cornwall        | 30.41  | 51    | -  | NW    | 1 | -        | -   | -      | f       | -     | 8    |
| "                        | Brussels        | 29.86  | 41    | -  | SW    | 3 | -        | -   | -      | o       | -     | -    |
| "                        | Paris           | 30.01  | 37    | -  | SW    | 4 | -        | -   | -      | bc      | -     | -    |
| "                        | Strasbourg      | 30.15  | 38    | -  | W     | 6 | -        | -   | -      | oc      | -     | -    |
| "                        | Lyon            | 30.24  | 37    | -  | S     | 3 | -        | -   | -      | s       | -     | -    |
| "                        | Heart's Content | 29.882 | 21    | -  | NW    | 8 | 8        | NW  | 5      | src     | 0.65  | 8    |

Dr. B. The Cape Clear temperatures for the 12<sup>th</sup> should be 39° - 37°.

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.



EIGHT A.M.

WEATHER REPORT. 1870. *January 14**Fri. day*

| STATIONS.                                  | Barometer.                        | Thermometer. |      | Present Wind. |                      | Extreme Wind.        |            | Amount of Cloud.<br>(0 to 9.) | Weather. | Rain.<br>(Inches) | Sea Dist.<br>(0 to 10) |
|--|-----------------------------------|--------------|------|---------------|----------------------|----------------------|------------|-------------------------------|----------|-------------------|------------------------|
|  |                                   | Dry.         | Wet. | Direction.    | Force.<br>(0 to 12.) | Force.<br>(0 to 12.) | Direction. |                               |          |                   |                        |
| *Christiansund                             |                                   |              |      |               |                      |                      |            | —                             |          | —                 |                        |
| *Skudesnaes ...                            |                                   |              |      |               |                      |                      |            | —                             |          | —                 |                        |
| *Oxo (Christiansand)                       |                                   |              |      |               |                      |                      |            | —                             |          | —                 |                        |
| Thurso ...                                 |                                   |              |      |               |                      |                      |            |                               |          |                   |                        |
| Wick ...                                   | 29.16 <sup>2</sup> / <sub>8</sub> | 38           | 37   | ESE           | 8                    | 5                    | ESE        | 9                             | cr       | 0.17              | 6                      |
| Nairn ...                                  | 29.11 <sup>8</sup> / <sub>8</sub> | 37           | 35   | NE            | 1                    | 5                    | W          | 8                             | co       | 0.03              | 1                      |
| Aberdeen ...                               | 29.14 <sup>8</sup> / <sub>8</sub> | 36           | 35   | S             | 1                    | 5                    | S          | 9                             | mr       | 0.56              | 1                      |
| Leith ...                                  | 29.14 <sup>8</sup> / <sub>8</sub> | 35           | 35   | SSE           | 2                    | 4                    | SSE        | 9                             | cm       | 0.41              | 1                      |
| Shields ...                                | —                                 | 39           | 39   | SVV           | 2                    | 7                    | W          | 3                             | rm       | 0.19              | 3                      |
| Scarborough...                             | 29.21 <sup>2</sup> / <sub>8</sub> | 40           | 40   | WSW           | 2                    | 2                    | NW         | 9                             | co       | 0.21              | 2                      |
| Yarmouth ...                               | 29.48 <sup>2</sup> / <sub>8</sub> | 45           | 45   | SSW           | 3                    | 4                    | SW         | 4                             | c        | 0.40              | 3                      |
| Ardrossan ...                              | 29.15 <sup>2</sup> / <sub>8</sub> | 40           | 39   | WSW           | 3                    | 5                    | SSE        | 6                             | sr       | 0.75              | 4                      |
| Greencastle ...                            | 29.06 <sup>2</sup> / <sub>8</sub> | 40           | 39   | S             | 2                    | 6                    | S          | 3                             | re       | 0.24              | —                      |
| Holyhead ...                               | 29.27 <sup>2</sup> / <sub>8</sub> | 45           | 44   | SSW           | 6                    | 3                    | SSW        | 8                             | o        | 0.32              | —                      |
| Liverpool ...                              | 29.30 <sup>2</sup> / <sub>8</sub> | —            | —    | SW            | 3                    | 4                    | SW         | 8                             | co       | 0.07              | 1                      |
| Valencia ...                               | 29.30 <sup>2</sup> / <sub>8</sub> | 46           | 44   | W             | 7                    | 8                    | ? NW       | 4                             | hpg      | 0.38              | 5                      |
| Cape Clear ...                             | 29.31 <sup>2</sup> / <sub>8</sub> | 47           | 45   | W             | 9                    | 7                    | SW         | 7                             | gc       | 0.10              | 7                      |
| Roche's Point                              | 29.30 <sup>2</sup> / <sub>8</sub> | 45           | 44   | WSW           | 8                    | 8                    | WSW        | 8                             | mgp      | 0.28              | 5                      |
| Pembroke ...                               | 29.35 <sup>2</sup> / <sub>8</sub> | 47           | 45   | WSW           | 8                    | 9                    | SVV        | 7                             | ofc      | 0.20              | 5                      |
| Penzance ...                               | 29.54 <sup>2</sup> / <sub>8</sub> | 43           | 42   | SVV           | 4                    | 6                    | SVV        | 2                             | rb       | 0.32              | 4                      |
| Plymouth ...                               | 29.57 <sup>2</sup> / <sub>8</sub> | 49           | 47   | SSV           | 4                    | 6                    | SSW        | 7                             | re       | 0.21              | 3                      |
| Portsmouth ...                             | 29.57 <sup>2</sup> / <sub>8</sub> | 47           | 46   | W             | 4                    | 1                    | SSE        | 5                             | oc       | 0.15              | 3                      |
| London ...                                 | 29.53 <sup>2</sup> / <sub>8</sub> | 46           | 45   | WSW           | 2                    | 2                    | SW         | 0                             | crb      | 0.16              | —                      |
| Helder ...                                 | 29.60                             | 39           | —    | S             | 6                    | —                    | —          | —                             | —        | —                 | 4                      |
| Cape Gris Nez                              | 29.58 <sup>2</sup> / <sub>8</sub> | 45           | 45   | SW            | 5                    | 5                    | N          | 9                             | cf       | 0.02              | 3                      |
| Brest ...                                  | 29.71 <sup>2</sup> / <sub>8</sub> | 50           | 48   | WSW           | 5                    | 7                    | WSW        | 6                             | o        | 0.05              | 2                      |
| L'Orient ...                               | —                                 | 50           | 48   | W             | 5                    | 5                    | WNW        | 7                             | c        | 0.09              | 5                      |
| Rochefort ...                              |                                   |              |      |               |                      |                      |            |                               |          |                   |                        |
| Biarritz...                                |                                   |              |      |               |                      |                      |            |                               |          |                   |                        |
| Corunna ...                                |                                   |              | —    |               |                      |                      | —          | —                             |          | —                 |                        |
| Brussels ...                               |                                   |              | —    |               |                      |                      | —          | —                             |          | —                 |                        |
| Paris ...                                  |                                   |              | —    |               |                      |                      | —          | —                             |          | —                 |                        |
| Strasbourg ...                             |                                   |              | —    |               |                      |                      | —          | —                             |          | —                 |                        |
| Lyons ...                                  |                                   |              | —    |               |                      |                      | —          | —                             |          | —                 |                        |
| Toulon...                                  | 30.11 <sup>2</sup> / <sub>8</sub> | 43           | 41   | WSW           | 1                    | 4                    | WSW        | 3                             | re       | —                 | 4                      |
| Heart's Content<br>(9 a.m. local<br>time.) |                                   |              |      |               |                      |                      |            |                               |          |                   |                        |

## 2 P.M. REPORT.

|                 |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|
| Skudesnaes ...  |  |  |  |  |  |  |  |  |  |  |  |
| Nairn ...       |  |  |  |  |  |  |  |  |  |  |  |
| Scarborough...  |  |  |  |  |  |  |  |  |  |  |  |
| Greencastle ... |  |  |  |  |  |  |  |  |  |  |  |
| Valencia ..     |  |  |  |  |  |  |  |  |  |  |  |
| Penzance ...    |  |  |  |  |  |  |  |  |  |  |  |
| London...       |  |  |  |  |  |  |  |  |  |  |  |
| Rochefort ...   |  |  |  |  |  |  |  |  |  |  |  |

**BAROMETER** corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER** exposed in shade. **EXTREME FORCE** with its Direction during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l.—lightning; m.—mist (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**, snow hail (melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

\* Rainfall is not reported from the Norwegian stations; and their "extremes" are the observations made at 8 pm. on the previous day.



## REMARKS.

Fri. day

Atmospherical pressure has been very unsteady during the past day; and during the night has again decreased rapidly in the north and northwest of our Islands. The lowest reading is now at Greenacilla, and is 0.65 in. less than that at Brest.

Temperature has risen generally - especially in the south of England, where the change exceeds 10°. Leith is 15° colder than Brest.

Winds were very variable in force and direction yesterday; and during the night a W<sup>ly</sup> gale has set in on the S. coast of Ireland and at Pembroke, and an ESE gale is reported from Wick this morning. On our other coasts winds are moderate from S to SW.

Rain has fallen everywhere - heavily in the NW. The sky is cloudy generally, and weather very unsettled. The sea is high at C. Clear and Wick.

Warnings to all coasts, except the east of England.

## CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

| Date.                 | Station.       | Bar.    | Temp. |    | Wind. |   | Extreme. |     | Cloud. | Weather | Rain. | Sea. |
|-----------------------|----------------|---------|-------|----|-------|---|----------|-----|--------|---------|-------|------|
| JAN: 13 <sup>th</sup> | Rocheport      | 29.99 f | 50    | 48 | WNW   | 7 | 5        | W   | 9      | r       | 0.12  | 3    |
|                       | Biarritz       | 30.24 f | 52    | 50 | W     | 5 | 5        | WSW | 9      | r       | 0.08  | 6    |
|                       | Corunna        | 30.34   | 52    | -  | NW    | 6 | -        | -   | -      | c       | -     | 8    |
|                       | Brussel        | 29.86   | 37    | -  | S     | 6 | -        | -   | -      | c       | -     | -    |
|                       | Paris          | 29.99   | 35    | -  | ? WSW | 2 | -        | -   | -      | bc      | -     | -    |
|                       | Strasbourg     | 30.15   | 37    | -  | SW    | 6 | -        | -   | -      | o       | -     | -    |
|                       | Lyon           | 30.16   | 42    | -  | S     | 3 | -        | -   | -      | fo      | -     | -    |
|                       | Hearts Content | 29.69 f | 33    | 33 | E     | 1 | 8        | NW  | 9      | bc      | 0.23  | 2    |

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.



EIGHT A.M.

## WEATHER REPORT. 1870.

January 15<sup>th</sup>

Saturday

| STATIONS.                                  | Barometer. | Thermometer. |      | Present Wind. |                      | Extreme Wind.        |            | Amount of Cloud.<br>(0 to 9.) | Weather. | Rain.<br>(Inches) | Sea<br>Disturb.<br>(0 to 4) |
|--|------------|--------------|------|---------------|----------------------|----------------------|------------|-------------------------------|----------|-------------------|-----------------------------|
|  |            | Dry.         | Wet. | Direction.    | Force.<br>(0 to 12.) | Force.<br>(0 to 12.) | Direction. |                               |          |                   |                             |
| * Christiansund                            | 29.64      | 24           | —    | E             | 6                    | 6                    | E          | —                             | 6        | —                 | 4                           |
| * Skudesnaes ...                           | 29.47      | 33           | —    | NNE           | 6                    | 6                    | ESE        | —                             | 50       | —                 | 4                           |
| * Oxo (Christiansand)                      | 29.47      | 29           | —    | NNE           | 8                    | 10                   | NNE        | —                             | 50       | —                 | 4                           |
| Thurso ...                                 |            |              |      |               |                      |                      |            |                               |          |                   |                             |
| Wick ...                                   | 29.452     | 34           | 34   | WNW           | 2                    | 6                    | ESE        | 6                             | 2c       | 0.18              | 4                           |
| Nairn ...                                  | 29.442     | 37           | 35   | NW            | 1                    | 2                    | NW         | 8                             | c0       | —                 | 2                           |
| Aberdeen ...                               | 29.492     | 35           | 34   | Z             | 0                    | 1                    | SSW        | 9                             | c2       | 0.02              | 1                           |
| Leith ...                                  | 29.502     | 36           | 35   | W             | 2                    | 2                    | S          | 1                             | om       | —                 | —                           |
| Shields ...                                | 29.522     | 37           | 37   | SW            | 2                    | 2                    | SW         | 2                             | cm       | —                 | 2                           |
| Scarborough ...                            | 29.532     | 40           | 39   | NW            | 1                    | 5                    | SW         | 9                             | c0       | —                 | 2                           |
| Yarmouth ...                               | 29.572     | 44           | 43   | WSW           | 5                    | 5                    | SW         | 6                             | cm       | —                 | 3                           |
| Ardrossan ...                              | 29.542     | 38           | 37   | SE            | 1                    | 2                    | SSE        | 6                             | c        | 0.13              | 2                           |
| Greencastle ...                            | 29.582     | 42           | 41   | W             | 1                    | 6                    | S          | 9                             | 20       | 0.16              | —                           |
| Holyhead ...                               | 29.652     | 45           | 44   | WSW           | 4                    | 8                    | SSW        | 9                             | 0        | 0.12              | —                           |
| Liverpool ...                              | 29.622     | —            | —    | WSW           | 2                    | 4                    | SW         | 4                             | oc       | 0.28              | 1                           |
| Valencia ...                               | 29.642     | 49           | 47   | W             | 3                    | 9                    | WNW        | 6                             | 2c       | 0.16              | 4                           |
| Cape Clear ...                             | 29.622     | 50           | 49   | SW            | 6                    | 8                    | WNW        | 8                             | ghc      | 0.15              | 4                           |
| Roche's Point                              | 29.642     | 47           | 47   | S             | 2                    | 7                    | W          | 9                             | gpm      | 0.10              | 3                           |
| Pembroke ...                               | 29.702     | 47           | 46   | SW            | 6                    | 9                    | W          | 9                             | c0       | 0.09              | 4                           |
| Penzance ...                               | 29.792     | 43           | 42   | SW            | 4                    | 8                    | SW         | 9                             | cm       | 0.25              | 4                           |
| Plymouth ...                               | 29.812     | 48           | 46   | WNW           | 3                    | 7                    | W          | 5                             | c        | 0.07              | 3                           |
| Portsmouth ...                             | 29.762     | 43           | 42   | WNW           | 4                    | 7                    | WSW        | 3                             | c        | —                 | 3                           |
| London ...                                 | 29.702     | 44           | 42   | W             | 4                    | 8                    | WSW        | 7                             | hbc      | 0.06              | —                           |
| Helder ...                                 |            |              |      |               |                      |                      |            |                               |          |                   |                             |
| Cape Gris Nez                              | 29.722     | 46           | 44   | W             | 7                    | 9                    | W          | 6                             | mo       | 0.01              | 3                           |
| Brest ...                                  | 29.932     | 50           | 50   | WSW           | 4                    | 7                    | NW         | 9                             | cm       | 0.01              | 3                           |
| L'Orient ...                               | 29.922     | 48           | 46   | W             | 5                    | 5                    | WSW        | 8                             | c        | 0.02              | 7                           |
| Rochefort ...                              | 30.102     | 48           | 46   | W             | 7                    | 7                    | W          | 9                             | 2        | 0.02              | 2                           |
| Biarritz ...                               | 30.202     | 50           | 48   | WSW           | 3                    | 3                    | S          | 8                             | f        | —                 | 7                           |
| Corunna ...                                |            |              |      |               |                      |                      |            |                               |          |                   |                             |
| Brussels ...                               |            |              |      |               |                      |                      |            |                               |          |                   |                             |
| * Paris ...                                |            |              |      |               |                      |                      |            |                               |          |                   |                             |
| Strasbourg ...                             |            |              |      |               |                      |                      |            |                               |          |                   |                             |
| Lyons ...                                  |            |              |      |               |                      |                      |            |                               |          |                   |                             |
| Toulon ...                                 | 30.067     | 46           | 44   | NW            | 5                    | 3                    | SW         | 2                             | 6        | —                 | 4                           |
| Heart's Content<br>(9 a.m. local<br>time.) |            |              |      |               |                      |                      |            |                               |          |                   |                             |

## 2 P.M. REPORT.

|                 |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|
| Skudesnaes ...  |  |  |  |  |  |  |  |  |  |  |  |
| Nairn ...       |  |  |  |  |  |  |  |  |  |  |  |
| Scarborough ... |  |  |  |  |  |  |  |  |  |  |  |
| Greencastle ..  |  |  |  |  |  |  |  |  |  |  |  |
| Valencia ..     |  |  |  |  |  |  |  |  |  |  |  |
| Penzance ...    |  |  |  |  |  |  |  |  |  |  |  |
| London ...      |  |  |  |  |  |  |  |  |  |  |  |
| Rochefort ..    |  |  |  |  |  |  |  |  |  |  |  |

**BAROMETER** corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER** exposed in shade. **EXTREME FORCE** with its Direction during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l.—lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**, snow or hail (melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

\* Rainfall is not reported from the Norwegian stations; and their "extremes" are the observations made at 8 pm. on the previous day.



## REMARKS.

Satur. day

Barometrical pressure has again recovered rapidly especially in the northwest of our Islands; and readings are consequently much more uniform than they were. The lowest are, however, still found in the north, that at Navin being less by 0.66 in. than that at Rochefort.

Temperature is scarcely changed.

The winds have been strong and equally from the W<sup>nd</sup> on our western and southern coasts, reaching the force of a gale at several stations. They have since subsided but have backed in Ireland, and are now moderate to fresh from W to SW;—except in Scotland, where they are light and variable. In Norway it is blowing hard from the NE<sup>nd</sup>, with snow.

Rain has fallen except on the east coast. The sky remains very cloudy. The sea is moderate generally, but high in the Bay of Biscay.

## CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.\*

| Date.                | Station.        | Bar.  | Temp. |    | Wind. |   | Extreme. |     | Cloud. | Weather | Rain. | Sea. |
|----------------------|-----------------|-------|-------|----|-------|---|----------|-----|--------|---------|-------|------|
| JAN 14 <sup>TH</sup> | Christianund    | 29.74 | 27    | -  | ESE   | 6 | 4        | ESE | -      | cob     | -     | 4    |
| "                    | Skudesnaes      | 29.64 | 29    | -  | ESE   | 4 | 0        | Z   | -      | bc      | -     | 4    |
| "                    | Oxö             | 29.71 | 27    | -  | N     | 4 | 2        | NNW | -      | o/c     | -     | 2    |
| "                    | Rochefort       | 29.99 | 50    | 48 | WNW   | 7 | 7        | WNW | 9      | z       | 0.05  | 3    |
| "                    | Biarritz        | 30.14 | 48    | 44 | SE    | 3 | 5        | WNW | 3      | m/f     | -     | 6    |
| "                    | Corunna         | 30.12 | 52    | -  | SW    | 6 | -        | -   | -      | c       | -     | 4    |
| "                    | Brussels        | 29.72 | 44    | -  | SSW   | 7 | -        | -   | -      | o       | -     | -    |
| "                    | Paris           | 29.81 | 46    | -  | SSW   | 4 | -        | -   | -      | o       | -     | -    |
| "                    | Strasbourg      | 30.13 | 38    | -  | SW    | 3 | -        | -   | -      | o       | -     | -    |
| "                    | Lyon            | 30.14 | 41    | -  | S     | 1 | -        | -   | -      | m       | -     | -    |
| "                    | Heart's Content | 30.13 | 12    | -  | N     | 2 | 2        | N   | 2      | b       | -     | 3    |
| <u>Corrections</u>   |                 |       |       |    |       |   |          |     |        |         |       |      |
| "                    | Scarborough     | 29.29 | -     | -  | -     | - | -        | -   | -      | -       | -     | -    |
| "                    | L'Orion         | 29.75 | -     | -  | -     | - | -        | -   | -      | -       | -     | -    |

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.



EIGHT A.M.

## WEATHER REPORT. 1870.

SUN-day

January 16<sup>th</sup>

| STATIONS.                               | Barometer.         | Thermometer. |      | Present Wind. |                      | Extreme Wind.        |            | Amount of Cloud.<br>(0 to 9.) | Weather. | Rain.<br>(Inches) | Sea Disturb.<br>(0 to 9) |
|---|--------------------|--------------|------|---------------|----------------------|----------------------|------------|-------------------------------|----------|-------------------|--------------------------|
|   |                    | Dry.         | Wet. | Direction.    | Force.<br>(0 to 12.) | Force.<br>(0 to 12.) | Direction. |                               |          |                   |                          |
| * Christiansund                         | 30.10              | 26           | -    | E             | 4                    | 4                    | ESE        | —                             | cb       | —                 | 2                        |
| * Skudesnaes ...                        | 29.99              | 31           | -    | NNW           | 2                    | 2                    | ENE        | —                             | ob       | —                 | 2                        |
| * Oxo (Christiansund)                   | 29.95              | 33           | 32   | NNW           | 2                    | 6                    | NNE        | —                             | o        | —                 | 2                        |
| Thurso ...                              |                    |              |      |               |                      |                      |            |                               |          |                   |                          |
| Wick ...                                | 30.07 <sup>r</sup> | 41           | 40   | ESE           | 5                    | 3                    | ENE        | 7                             | c        | 0.05              | 4                        |
| Nairn ...                               | 29.99 <sup>r</sup> | 33           | 32   | W             | 1                    | 1                    | W          | 9                             | o        | —                 | 1                        |
| Aberdeen ...                            | 30.14 <sup>r</sup> | 33           | 32   | NW            | 1                    | 1                    | NW         | 8                             | cm       | 0.07              | 3                        |
| Leith ...                               | 30.11 <sup>r</sup> | 37           | 37   | ESE           | 2                    | 3                    | WNW        | 9                             | bm       | 0.01              | —                        |
| Shields ...                             | 30.13 <sup>r</sup> | 38           | 38   | -             | -                    | 2                    | ENE        | 8                             | m        | —                 | 2                        |
| Scarborough ...                         | 30.16 <sup>r</sup> | 37           | 36   | WNW           | 1                    | 2                    | NW         | 3                             | bc       | —                 | 2                        |
| Yarmouth ...                            | 30.20 <sup>r</sup> | 40           | 39   | W             | 2                    | 3                    | SSW        | 3                             | c        | —                 | 2                        |
| Ardrossan ...                           | 30.08 <sup>r</sup> | 40           | 39   | NE            | 2                    | 2                    | NNE        | 9                             | ct       | 0.06              | 1                        |
| Greencastle ...                         | 30.05 <sup>r</sup> | 47           | 46   | Z             | 0                    | 1                    | WNW        | 9                             | mto      | 0.15              | —                        |
| Holyhead ...                            | 30.13 <sup>r</sup> | 46           | 46   | SSW           | 3                    | 3                    | SW         | 9                             | of       | 0.02              | —                        |
| Liverpool ...                           | 30.21 <sup>r</sup> | -            | -    | SE            | 1                    | 4                    | WNW        | 8                             | of       | 0.10              | 1                        |
| Valencia ...                            |                    |              |      |               |                      |                      |            |                               |          |                   |                          |
| Cape Clear ...                          | 30.09 <sup>r</sup> | 50           | 49   | SW            | 3                    | 3                    | WSW        | 8                             | fo       | —                 | 2                        |
| Roche's Point                           | 30.15 <sup>r</sup> | 49           | 48   | WSW           | 2                    | 3                    | W          | 9                             | co       | —                 | 2                        |
| Pembroke ...                            | 30.14 <sup>r</sup> | 49           | 49   | W             | 3                    | 5                    | SSW        | 9                             | of       | 0.03              | 4                        |
| Penzance ...                            | 30.21 <sup>r</sup> | 51           | 50   | W             | 1                    | 5                    | SW         | 7                             | c        | 0.10              | 1                        |
| Plymouth ...                            | 30.19 <sup>r</sup> | 49           | 48   | Z             | 0                    | 3                    | WSW        | 9                             | co       | 0.07              | 0                        |
| Portsmouth ...                          | 30.21 <sup>r</sup> | 45           | 44   | Z             | 0                    | 4                    | WNW        | 7                             | om       | 0.03              | 0                        |
| London ...                              | 30.15 <sup>r</sup> | 45           | 44   | SW            | 1                    | 1                    | WSW        | 9                             | orm      | 0.06              | —                        |
| Helder ...                              |                    |              |      |               |                      |                      |            |                               |          |                   |                          |
| Cape Gris Nez                           | 30.15 <sup>r</sup> | 45           | 43   | N             | 1                    | 7                    | W          | 8                             | to       | 0.05              | 0                        |
| Brest ...                               | —                  | 50           | 50   | Z             | 0                    | 5                    | WSW        | 9                             | mf       | 0.03              | 1                        |
| L'Orient ...                            | 30.20 <sup>r</sup> | 50           | 48   | NW            | 1                    | 5                    | WSW        | 9                             | to       | 0.05              | 4                        |
| Rochefort ...                           | 30.28 <sup>r</sup> | 48           | 46   | SW            | 5                    | 5                    | SW         | 9                             | o        | —                 | 1                        |
| Biarritz ...                            | 30.36 <sup>r</sup> | 45           | 43   | SE            | 1                    | 3                    | W          | 0                             | cb       | —                 | 6                        |
| Corunna ...                             | 30.33              | 50           | —    | NE            | 3                    | —                    | —          | —                             | c        | —                 | 2                        |
| Brussels ...                            | 30.12              | 45           | —    | WSW           | 4                    | —                    | —          | —                             | c        | —                 | —                        |
| Paris ...                               | 30.19              | 46           | —    | WNW           | 4                    | —                    | —          | —                             | o        | —                 | —                        |
| Strasbourg ...                          | 30.21              | 46           | —    | W             | 1                    | —                    | —          | —                             | or       | —                 | —                        |
| Lyons ...                               | 30.24              | 46           | —    | N             | 3                    | —                    | —          | —                             | o        | —                 | —                        |
| Toulon ...                              | 30.12 <sup>f</sup> | 45           | 40   | NW            | 7                    | 7                    | WNW        | 3                             | bc       | —                 | 6                        |
| Heart's Content<br>(9 a.m. local time.) | 30.09 <sup>f</sup> | 31           | —    | S             | 3                    | 6                    | NNW        | 8                             | bo       | —                 | 4                        |

## 2 P.M. REPORT.

|                 |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|
| Skudesnaes ...  |  |  |  |  |  |  |  |  |  |  |  |
| Nairn ...       |  |  |  |  |  |  |  |  |  |  |  |
| Scarborough ... |  |  |  |  |  |  |  |  |  |  |  |
| Greencastle ... |  |  |  |  |  |  |  |  |  |  |  |
| Valencia ..     |  |  |  |  |  |  |  |  |  |  |  |
| Penzance ...    |  |  |  |  |  |  |  |  |  |  |  |
| London ...      |  |  |  |  |  |  |  |  |  |  |  |
| Rochefort ...   |  |  |  |  |  |  |  |  |  |  |  |

**BAROMETER** corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER** exposed in shade. **EXTREME FORCE** with its Direction during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l.—lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**, snow or hail (melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

\* Rainfall is not reported from the Norwegian stations; and their "extremes" are the observations made at 8 pm. on the previous day.



|   | No. | Sea Distn<br>to 6 fms | (0 to 1) |
|---|-----|-----------------------|----------|
| — | 2   | 2                     | 2        |
| — | 2   | 2                     | 2        |
| — | 2   | 2                     | 2        |
| — | 4   | 4                     | 4        |
| — | 1   | 3                     | 1        |
| — | 2   | —                     | 2        |
| — | 2   | 2                     | 2        |
| — | 2   | 2                     | 2        |
| — | 1   | 1                     | 1        |
| — | —   | —                     | —        |
| — | 1   | 1                     | 1        |
| — | 2   | 2                     | 2        |
| — | 2   | 2                     | 2        |
| — | 4   | 4                     | 4        |
| — | 1   | 1                     | 1        |
| — | 0   | 0                     | 0        |
| — | 0   | —                     | —        |
| — | 0   | 0                     | 0        |
| — | 1   | 1                     | 1        |
| — | 4   | 4                     | 4        |
| — | 1   | 1                     | 1        |
| — | 6   | 6                     | 6        |
| — | 2   | 2                     | 2        |
| — | —   | —                     | —        |
| — | —   | —                     | —        |
| — | —   | —                     | —        |
| — | —   | —                     | —        |
| — | 6   | 6                     | 6        |
| — | 4   | 4                     | 4        |
| — | —   | —                     | —        |
| — | —   | —                     | —        |

|   | Sea Dist. (0 to 1) |  |
|---|--------------------|--|
| 2 | 2                  |  |
| 2 | 2                  |  |
| 2 | 2                  |  |
|   | 4                  |  |
|   | 1                  |  |
| 3 | —                  |  |
| 2 | 2                  |  |
| 2 | 2                  |  |
| 1 | 2                  |  |
| — | 1                  |  |
| — | —                  |  |
| 1 | 1                  |  |
| 2 | 2                  |  |
| 2 | 2                  |  |
| 4 | 4                  |  |
| 1 | 1                  |  |
| 0 | 0                  |  |
| 0 | —                  |  |
| 0 | 0                  |  |
| 1 | 1                  |  |
| 4 | 4                  |  |
| 1 | 1                  |  |
| 6 | 6                  |  |
| 2 | 2                  |  |
| — | —                  |  |
| — | —                  |  |
| — | —                  |  |
| — | —                  |  |
| 6 | 6                  |  |
| 4 | 4                  |  |
| — | —                  |  |
| — | —                  |  |

|   | No. | Sea Dist.<br>0 to | Miles<br>from shore |
|---|-----|-------------------|---------------------|
| — | 2   | 2                 | 2                   |
| — | 2   | 2                 | 2                   |
| — | 2   | 2                 | 2                   |
| — | 4   | 4                 | 4                   |
| — | 1   | 1                 | 1                   |
| — | 3   | 3                 | 3                   |
| — | 2   | 2                 | 2                   |
| — | 2   | 2                 | 2                   |
| — | 1   | 1                 | 1                   |
| — | —   | —                 | —                   |
| — | —   | —                 | —                   |
| — | 1   | 1                 | 1                   |
| — | 2   | 2                 | 2                   |
| — | 2   | 2                 | 2                   |
| — | 4   | 4                 | 4                   |
| — | 1   | 1                 | 1                   |
| — | 0   | 0                 | 0                   |
| — | 0   | —                 | —                   |
| — | 0   | 0                 | 0                   |
| — | 1   | 1                 | 1                   |
| — | 4   | 4                 | 4                   |
| — | 6   | 6                 | 6                   |
| — | 2   | 2                 | 2                   |
| — | —   | —                 | —                   |
| — | —   | —                 | —                   |
| — | —   | —                 | —                   |
| — | 6   | 6                 | 6                   |
| — | 4   | 4                 | 4                   |
| — | —   | —                 | —                   |
| — | —   | —                 | —                   |

|   | Sea Dist.<br>0 to 1 |   |
|---|---------------------|---|
| — | 2                   | 2 |
| — | 2                   | 2 |
| — | 2                   | 2 |
| — | 4                   | 4 |
| — | 1                   | 1 |
| — | 3                   | 3 |
| — | —                   | — |
| — | 2                   | 2 |
| — | 2                   | 2 |
| — | 2                   | 2 |
| — | 1                   | 1 |
| — | —                   | — |
| — | —                   | — |
| — | 1                   | 1 |
| — | 2                   | 2 |
| — | 2                   | 2 |
| — | 4                   | 4 |
| — | 1                   | 1 |
| — | 0                   | 0 |
| — | 0                   | — |
| — | —                   | — |
| — | 0                   | 0 |
| — | 1                   | 1 |
| — | 4                   | 4 |
| — | 1                   | 1 |
| — | 6                   | 6 |
| — | 2                   | 2 |
| — | —                   | — |
| — | —                   | — |
| — | —                   | — |
| — | —                   | — |
| — | 6                   | 6 |
| — | 4                   | 4 |
| — | —                   | — |
| — | —                   | — |

| No. | Sea Dist. (0 to 1) |
|-----|--------------------|
| 2   | —                  |
| 2   | —                  |
| 2   | —                  |
| 4   | —                  |
| 1   | —                  |
| 3   | —                  |
| 2   | —                  |
| 2   | —                  |
| 2   | —                  |
| 1   | —                  |
| —   | —                  |
| 1   | —                  |
| 2   | —                  |
| 2   | —                  |
| 4   | —                  |
| 1   | —                  |
| 0   | —                  |
| 0   | —                  |
| —   | —                  |
| 0   | —                  |
| 1   | —                  |
| 4   | —                  |
| 6   | —                  |
| 2   | —                  |
| —   | —                  |
| —   | —                  |
| —   | —                  |
| 6   | —                  |
| 4   | —                  |
| —   | —                  |
| —   | —                  |

| No. | Sea Dist. (0 to 1) |
|-----|--------------------|
| 2   |                    |
| 2   |                    |
| 2   |                    |
|     | 4                  |
|     | 1                  |
| 3   |                    |
| —   | 2                  |
| 2   | 2                  |
| 2   | 2                  |
| 1   | —                  |
| —   | —                  |
| 1   |                    |
| 2   |                    |
| 2   |                    |
| 4   |                    |
| 1   |                    |
| 0   |                    |
| 0   |                    |
| —   |                    |
| 0   |                    |
| 1   |                    |
| 4   |                    |
| 1   |                    |
| 6   |                    |
| 2   |                    |
| —   |                    |
| —   |                    |
| —   |                    |
| 6   |                    |
| 4   |                    |
| —   |                    |
| —   |                    |

|   | Sea Dist. (0 to 1) |  |
|---|--------------------|--|
| 2 | 2                  |  |
| 2 | 2                  |  |
| 2 | 2                  |  |
|   | 4                  |  |
|   | 1                  |  |
| 3 | —                  |  |
| 2 | 2                  |  |
| 2 | 2                  |  |
| 2 | 1                  |  |
| 1 | —                  |  |
| — | —                  |  |
| 1 | 1                  |  |
| 2 | 2                  |  |
| 2 | 2                  |  |
| 4 | 4                  |  |
| 1 | 1                  |  |
| 0 | 0                  |  |
| 0 | —                  |  |
| 0 | 0                  |  |
| 1 | 1                  |  |
| 4 | 4                  |  |
| 1 | 1                  |  |
| 6 | 6                  |  |
| 2 | 2                  |  |
| — | —                  |  |
| — | —                  |  |
| — | —                  |  |
| 6 | 6                  |  |
| 4 | 4                  |  |
| — | —                  |  |
| — | —                  |  |

|   | Sea Dist. (0 to 1) |  |
|---|--------------------|--|
| 2 | 2                  |  |
| 2 | 2                  |  |
| 2 | 2                  |  |
|   | 4                  |  |
|   | 1                  |  |
| 3 | —                  |  |
| 2 | 2                  |  |
| 2 | 2                  |  |
| 2 | 1                  |  |
| 1 | —                  |  |
| — | —                  |  |
| 1 | 1                  |  |
| 2 | 2                  |  |
| 2 | 2                  |  |
| 4 | 4                  |  |
| 1 | 1                  |  |
| 0 | 0                  |  |
| 0 | —                  |  |
| 0 | 0                  |  |
| 1 | 1                  |  |
| 4 | 4                  |  |
| 1 | 1                  |  |
| 6 | 6                  |  |
| 2 | 2                  |  |
| — | —                  |  |
| — | —                  |  |
| — | —                  |  |
| 6 | 6                  |  |
| 4 | 4                  |  |
| — | —                  |  |
| — | —                  |  |



EIGHT A.M.

WEATHER REPORT. 1870. Jan. 17<sup>TH</sup>

Monday

| STATIONS.                               | Barometer.         | Thermometer. |      | Present Wind. |                      | Extreme Wind.        |            | Amount of Cloud.<br>(0 to 9.) | Weather. | Rain.<br>(Inches) | Sea Disturb.<br>(0 to 9) |
|---|--------------------|--------------|------|---------------|----------------------|----------------------|------------|-------------------------------|----------|-------------------|--------------------------|
|   |                    | Dry.         | Wet. | Direction.    | Force.<br>(0 to 12.) | Force.<br>(0 to 12.) | Direction. |                               |          |                   |                          |
| * Christiansund                         |                    |              |      |               |                      |                      |            | —                             |          | —                 |                          |
| * Skudesnaes ...                        |                    |              |      |               |                      |                      |            | —                             |          | —                 |                          |
| * Oxo (Christiansund)                   |                    |              |      |               |                      |                      |            | —                             |          | —                 |                          |
| Thurso ...                              |                    |              |      |               |                      |                      |            |                               |          |                   |                          |
| Wick ...                                | 30.30 <sup>h</sup> | 43           | 42   | SSE           | 3                    | 4                    | ESE        | 7                             | c        | —                 | 3                        |
| Nairn ...                               | 30.34 <sup>h</sup> | 38           | 36   | W             | 1                    | 1                    | W          | 5                             | c        | 0.03              | 1                        |
| Aberdeen ...                            | 30.43 <sup>h</sup> | 40           | 39   | SSW           | 1                    | 0                    | Z          | 9                             | m        | 0.01              | 1                        |
| Leith ...                               | 30.44 <sup>h</sup> | 38           | 38   | N             | 1                    | 2                    | ESE        | —                             | cm       | —                 | —                        |
| Shields ...                             | —                  | 42           | 42   | SW            | 1                    | 1                    | E          | 8                             | mo       | —                 | 2                        |
| Scarborough ...                         | 30.49 <sup>h</sup> | 41           | 41   | SSW           | 1                    | 1                    | W          | 9                             | fo       | —                 | 2                        |
| Yarmouth ...                            | 30.52 <sup>h</sup> | 37           | 37   | NE            | 2                    | 3                    | W          | 2                             | fb       | —                 | 2                        |
| Ardrossan ...                           | 30.43 <sup>h</sup> | 43           | 42   | ENE           | 2                    | 3                    | NE         | 7                             | nm       | 0.04              | 0                        |
| Greencastle ...                         | 30.38 <sup>h</sup> | 47           | 46   | SVY           | 1                    | 2                    | S          | 8                             | o        | —                 | —                        |
| Holyhead ...                            | 30.45 <sup>h</sup> | 46           | 46   | S             | 1                    | 3                    | SSW        | 9                             | ofm      | —                 | —                        |
| Liverpool ...                           | 30.45              | —            | —    | SW            | 1                    | 1                    | WNW        | 9                             | of       | —                 | 1                        |
| Valencia ...                            |                    |              |      |               |                      |                      |            |                               |          |                   |                          |
| Cape Clear ...                          | 30.39              | 50           | 49   | S             | 3                    | 2                    | SVY        | 9                             | o        | —                 | 1                        |
| Roche's Point                           | 30.44 <sup>h</sup> | 48           | 47   | SSW           | 4                    | 4                    | SSW        | 9                             | cm       | —                 | 3                        |
| Pembroke ...                            | 30.46 <sup>h</sup> | 48           | 47   | SSE           | 2                    | 3                    | SW         | 9                             | fo       | —                 | 3                        |
| Penzance ...                            | 30.50 <sup>h</sup> | 48           | 47   | Z             | 0                    | 3                    | W          | 6                             | cf       | —                 | 0                        |
| Plymouth ...                            | 30.49 <sup>h</sup> | 48           | 47   | Z             | 0                    | 0                    | Z          | 9                             | cf       | —                 | 0                        |
| Portsmouth ...                          | 30.47 <sup>h</sup> | 45           | 44   | Z             | 0                    | 1                    | WNW        | 9                             | m        | —                 | 0                        |
| London ...                              | 30.47 <sup>h</sup> | 44           | 43   | E             | 1                    | 0                    | Z          | 9                             | orm      | 0.02              | —                        |
| Helder ...                              | 30.50              | 39           | —    | NE            | 6                    | —                    | —          | —                             | —        | —                 | 12                       |
| Cape Gris Nez                           | 30.49 <sup>h</sup> | 41           | 39   | SE            | 1                    | 3                    | N          | 7                             | fo       | —                 | 0                        |
| Brest ...                               | 30.45 <sup>h</sup> | 48           | 48   | Z             | 0                    | 0                    | Z          | 9                             | fo       | —                 | 2                        |
| L'Orient ...                            | 30.38 <sup>h</sup> | 46           | 46   | ENE           | 1                    | 3                    | WSW        | 9                             | fo       | —                 | 2                        |
| Rochefort ...                           | 30.41 <sup>h</sup> | 46           | 46   | ? W           | 4                    | 4                    | W          | 0                             | b        | —                 | 1                        |
| Biarritz ...                            | 30.38 <sup>h</sup> | 46           | 46   | SE            | 4                    | 3                    | SVY        | 9                             | fo       | —                 | 4                        |
| Corunna ...                             |                    |              |      |               |                      |                      |            |                               |          |                   |                          |
| Brussels ...                            |                    |              |      |               |                      |                      |            |                               |          |                   |                          |
| Paris ...                               |                    |              |      |               |                      |                      |            |                               |          |                   |                          |
| Strasbourg ...                          |                    |              |      |               |                      |                      |            |                               |          |                   |                          |
| Lyons ...                               |                    |              |      |               |                      |                      |            |                               |          |                   |                          |
| Toulon ...                              | 29.92 <sup>f</sup> | 43           | 39   | NNW           | 7                    | 8                    | NNW        | 0                             | cb       | —                 | 6                        |
| Heart's Content<br>(9 a.m. local time.) |                    |              |      |               |                      |                      |            |                               |          |                   |                          |

## 2 P.M. REPORT.

|                 |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|
| Skudesnaes ...  |  |  |  |  |  |  |  |  |  |  |  |
| Nairn ...       |  |  |  |  |  |  |  |  |  |  |  |
| Scarborough ... |  |  |  |  |  |  |  |  |  |  |  |
| Greencastle ... |  |  |  |  |  |  |  |  |  |  |  |
| Valencia ...    |  |  |  |  |  |  |  |  |  |  |  |
| Penzance ...    |  |  |  |  |  |  |  |  |  |  |  |
| London ...      |  |  |  |  |  |  |  |  |  |  |  |
| Rochefort ...   |  |  |  |  |  |  |  |  |  |  |  |

**BAROMETER** corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER** exposed in shade. **EXTREME FORCE** with its Direction during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l.—lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**, snow or hail (melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

\* Rainfall is not reported from the Norwegian stations; and their "extremes" are the observations made at 8 pm. on the previous day.



## REMARKS.

Mon day

Since Saturday atmospheric pressure has continued to increase at all our stations - mostly in the north - and is now high and very uniform in our Islands. The maximum readings are in the S.E. of England.

Temperature is scarcely changed; but is slightly lower at the eastern stations.

Light variable winds have prevailed everywhere; and to-day calms are reported in the English Channel, with light S.W. winds to the northward, and light E. breezes in France.

Rain has fallen at almost all stations. The day continues overcast, with much fog and mist about. The sea is calm.

## CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

| Date.                    | Station.        | Bar.   | Temp. |   | Wind. |   | Extreme. |     | Cloud. | Weather | Rain. | Sea. |
|--------------------------|-----------------|--------|-------|---|-------|---|----------|-----|--------|---------|-------|------|
| JAN:<br>15 <sup>TH</sup> | Helder          | 29.49  | 43    | - | SW    | 6 | -        | -   | -      | -       | -     | 4    |
|                          | Comuna          | 30.17  | 52    | - | SW    | 3 | -        | -   | -      | c       | -     | 8    |
|                          | Brussels        | 29.73  | 45    | - | SW    | 6 | -        | -   | -      | o r     | -     | -    |
|                          | Paris           | 29.96  | 41    | - | SW    | 2 | -        | -   | -      | c       | -     | -    |
|                          | Strasbourg      | 30.13  | 46    | - | SW    | 6 | -        | -   | -      | o       | -     | -    |
|                          | Lyon            | 30.16  | 41    | - | NE    | 3 | -        | -   | -      | f       | -     | -    |
|                          | Heart's Content | 30.392 | 13    | - | NNW   | 6 | 6        | NNW | 1      | f       | -     | 5    |

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.



EIGHT A.M.

## WEATHER REPORT. 1870.

January 18<sup>th</sup>

Tues. day

| STATIONS.                                  | Barometer. | Thermometer. |      | Present Wind. |                      | Extreme Wind.        |            | Amount of Cloud.<br>(0 to 9.) | Weather. | Rain.<br>(Inches) | Sea Disturb.<br>(0 to 9.) |
|--|------------|--------------|------|---------------|----------------------|----------------------|------------|-------------------------------|----------|-------------------|---------------------------|
|  |            | Dry.         | Wet. | Direction.    | Force.<br>(0 to 12.) | Force.<br>(0 to 12.) | Direction. |                               |          |                   |                           |
| * Christiansund                            | 30.56      | 30           | -    | ESE           | 6                    | 6                    | ESE        | -                             | bo       | -                 | 4                         |
| * Skudesnaes ...                           | 30.76      | 29           | -    | SE            | 6                    | 6                    | SE         | -                             | bo       | -                 | 4                         |
| * Oxo (Christiansund)                      | 30.77      | 27           | -    | NNE           | 6                    | 6                    | NNE        | -                             | o        | -                 | 4                         |
| Thurso ...                                 |            |              |      |               |                      |                      |            |                               |          |                   |                           |
| Wick ...                                   | 30.402     | 40           | 39   | S             | 2                    | 5                    | SSE        | 4                             | c        | 0.08              | 3                         |
| Nairn ...                                  | 30.432     | 34           | 32   | SW            | 1                    | 1                    | SSW        | 2                             | cl       | -                 | 1                         |
| Aberdeen ...                               | 30.485     | 41           | 40   | SSW           | 1                    | 3                    | S          | 9                             | m r      | 0.11              | 1                         |
| Leith ...                                  | 30.487     | 42           | 42   | N             | 1                    | 1                    | WNW        | 9                             | om r     | 0.03              | -                         |
| Shields ...                                | -          | 39           | 39   | NW            | 2                    | 2                    | SW         | 8                             | o f      | -                 | 2                         |
| Scarborough ...                            | 30.612     | 37           | 36   | S             | 2                    | 3                    | SSE        | 9                             | o        | -                 | 3                         |
| Yarmouth ...                               | 30.652     | 36           | 34   | E             | 4                    | 4                    | ENE        | 6                             | c        | -                 | 4                         |
| Ardrossan ...                              | 30.492     | 45           | 44   | S             | 2                    | 2                    | SE         | 7                             | oc       | 0.15              | 2                         |
| Greencastle ...                            |            |              |      |               |                      |                      |            |                               |          |                   |                           |
| Holyhead ...                               | 30.542     | 46           | 45   | SSW           | 2                    | 3                    | SSW        | 9                             | m o      | -                 | -                         |
| Liverpool ...                              | 30.562     | -            | -    | SE            | 1                    | 2                    | SW         | 9                             | o f      | -                 | 1                         |
| Valencia ...                               | 30.522     | 49           | 48   | SSW           | 2                    | 3                    | SW         | 9                             | mef      | 0.04              | 2                         |
| Cape Clear ...                             | 30.502     | 48           | 47   | SSE           | 1                    | 2                    | SW         | 9                             | om       | 0.10              | 0                         |
| Roche's Point                              | 30.532     | 45           | 44   | WSW           | 1                    | 4                    | SSW        | 9                             | o f      | -                 | 1                         |
| Pembroke ...                               | 30.537     | 45           | 44   | Z             | 0                    | 2                    | SSE        | 9                             | o        | -                 | 3                         |
| Penzance ...                               | 30.527     | -            | -    | Z             | 0                    | 2                    | WSW        | 9                             | o        | -                 | 0                         |
| Plymouth ...                               | 30.537     | 47           | 45   | Z             | 0                    | 1                    | NE         | 9                             | f        | -                 | 0                         |
| Portsmouth ...                             | 30.582     | 38           | 36   | ESE           | 1                    | 1                    | E          | 9                             | m f o    | 0.01              | 0                         |
| London ...                                 | 30.592     | 38           | 36   | E             | 2                    | 3                    | SE         | 9                             | o m      | 0.03              | -                         |
| Helder ...                                 | 30.64      | 35           | -    | ENE           | 3                    | -                    | -          | -                             | -        | -                 | 2                         |
| Cape Gris Nez                              | 30.572     | 32           | -    | E             | 4                    | 3                    | E          | 4                             | c        | -                 | 2                         |
| Brest ...                                  | 30.467     | 46           | 46   | ENE           | 3                    | 3                    | NE         | 9                             | b f      | -                 | 1                         |
| L'Orient ...                               | 30.422     | 45           | 41   | ENE           | 4                    | 4                    | NE         | 9                             | c o      | -                 | 2                         |
| Rochefort ...                              | -          | 36           | 34   | NE            | 5                    | 5                    | NE         | 9                             | o        | -                 | 1                         |
| Biarritz ...                               | 30.387     | 36           | 34   | East          | 3                    | 3                    | SE         | 4                             | m f      | -                 | 4                         |
| Corunna ...                                |            |              |      |               |                      |                      |            |                               |          |                   |                           |
| Brussels ...                               |            |              |      |               |                      |                      |            |                               |          |                   |                           |
| Paris ...                                  |            |              |      |               |                      |                      |            |                               |          |                   |                           |
| Strasbourg ...                             |            |              |      |               |                      |                      |            |                               |          |                   |                           |
| Lyons ...                                  |            |              |      |               |                      |                      |            |                               |          |                   |                           |
| Toulon ...                                 | 30.027     | 39           | 34   | NNE           | 3                    | 4                    | NW         | 8                             | bo       | -                 | 4                         |
| Heart's Content<br>(9 a.m. local<br>time.) |            |              |      |               |                      |                      |            |                               |          |                   |                           |

## 2 P.M. REPORT.

|                 |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|
| Skudesnaes ...  |  |  |  |  |  |  |  |  |  |  |  |
| Nairn ...       |  |  |  |  |  |  |  |  |  |  |  |
| Scarborough ... |  |  |  |  |  |  |  |  |  |  |  |
| Greencastle ... |  |  |  |  |  |  |  |  |  |  |  |
| Valencia ..     |  |  |  |  |  |  |  |  |  |  |  |
| Penzance ...    |  |  |  |  |  |  |  |  |  |  |  |
| London ...      |  |  |  |  |  |  |  |  |  |  |  |
| Rochefort ...   |  |  |  |  |  |  |  |  |  |  |  |

**BAROMETER** corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER** exposed in shade. **EXTREME FORCE** with its Direction during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l.—lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**, snow or hail (melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

\* Rainfall is not reported from the Norwegian stations; and their "extremes" are the observations made at 8 pm. on the previous day.



## REMARKS.

Tues day

Atmospherical pressure has again increased a little at all our stations; though in the southwest a slight decrease has occurred during the night. Readings are still high (especially in Norway) and very uniform.

Temperature has fallen a little in the east and southeast and C. Gris Nez is now  $17^{\circ}$  colder than Valencia.

Light and variable SW<sup>ly</sup> winds continue at all the stations, calms in the SW of England, and a light E<sup>ly</sup> breeze in the southeast of England and over France. The weather is overcast and foggy; and the sea calm.

## CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

| Date.                | Station.      | Bar.   | Temp. |    | Wind. |   | Extreme. |     | Cloud. | Weather | Rain. | Sea. |
|----------------------|---------------|--------|-------|----|-------|---|----------|-----|--------|---------|-------|------|
| JAN 17 <sup>th</sup> | Christiansund | 30.55  | 28    | -  | ESE   | 6 | 6        | E   | -      | b       | -     | 3    |
| "                    | Skudesnæs     | 30.61  | 32    | -  | ESE   | 4 | 0        | Z   | -      | bc      | -     | 2    |
| "                    | Osö.          | 30.60  | 29    | -  | NNE   | 6 | 6        | NNE | -      | o       | -     | 3    |
| "                    | Valencia      | 30.382 | 49    | 49 | SSW   | 3 | 3        | SV  | 9      | om      | 0.06  | 3    |
| "                    | Corunna       | 30.34  | 49    | -  | NE    | 3 | -        | -   | -      | b       | -     | 4    |
| "                    | Brunel        | 30.47  | 46    | -  | NE    | 3 | -        | -   | -      | cf      | -     | -    |
| "                    | Paris         | 30.43  | 43    | -  | NNE   | 2 | -        | -   | -      | o       | -     | -    |
| "                    | Strasbourg    | 30.54  | 39    | -  | NNW   | 3 | -        | -   | -      | o       | -     | -    |
| "                    | Lyon          | 30.34  | 42    | -  | NE    | - | -        | -   | -      | e       | -     | -    |
| "                    | Heart's Cont. | 30.232 | 31    | -  | N     | 4 | 5        | SSW | 2      | 0.26    | 0.51  | 6    |

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.



EIGHT A.M.

## WEATHER REPORT.

1870.

January 19<sup>th</sup>

Wednesday

| STATIONS.                                  | Barometer. | Thermometer. |      | Present Wind. |                      | Extreme Wind.        |            | Amount of Cloud.<br>(0 to 9.) | Weather. | Rain.<br>(Inches) | Sea<br>Disturb.<br>(0 to 9.) |
|--|------------|--------------|------|---------------|----------------------|----------------------|------------|-------------------------------|----------|-------------------|------------------------------|
|  |            | Dry.         | Wet. | Direction.    | Force.<br>(0 to 12.) | Force.<br>(0 to 12.) | Direction. |                               |          |                   |                              |
| *Christiansund                             | 30.69      | 37           | 34   | SSW           | 6                    | 6                    | SSW        | —                             | oc       | —                 | 4                            |
| *Skudesnaes ...                            | 30.82      | 33           | 31   | ESE           | 4                    | 6                    | S          | —                             | o        | —                 | 2                            |
| *Oxo (Christiansand)                       | 30.82      | 29           | —    | N             | 4                    | 6                    | NE         | —                             | o        | —                 | 2                            |
| Thurso ...                                 |            |              |      |               |                      |                      |            |                               |          |                   |                              |
| Wick ...                                   | 30.622     | 40           | 38   | SSE           | 4                    | 3                    | SE         | 8                             | co       | —                 | 3                            |
| Nairn ...                                  | 30.632     | 32           | —    | Z             | 0                    | 1                    | SW         | 9                             | bf       | —                 | 1                            |
| Aberdeen ...                               | 30.712     | 38           | 37   | SSE           | 2                    | 0                    | Z          | 8                             | info     | 0.03              | 3                            |
| Leith ...                                  | 30.662     | 37           | 35   | SSE           | 2                    | 1                    | W          | 5                             | mc       | —                 | —                            |
| Shields ...                                | —          | 37           | 36   | E             | 2                    | 2                    | SW         | 8                             | rs       | ?                 | 3                            |
| Scarborough ...                            | 30.645     | 36           | 35   | E             | 3                    | 2                    | SSW        | 9                             | o        | —                 | 3                            |
| Yarmouth ...                               | 30.617     | 36           | 34   | ENE           | 6                    | 6                    | NE         | 6                             | c        | —                 | 5                            |
| Ardrossan ...                              | 30.622     | 39           | 38   | ENE           | 3                    | 1                    | E          | 8                             | fm       | —                 | 2                            |
| Greencastle ...                            | 30.592     | 43           | 41   | SE            | 1                    | 1                    | SW         | 5                             | fm       | 0.01              | —                            |
| Holyhead ...                               | 30.497     | 42           | 41   | SSW           | 2                    | 3                    | SSW        | 9                             | o2       | 0.13              | —                            |
| Liverpool ...                              | 30.602     | —            | —    | E             | 1                    | 1                    | SE         | 9                             | so       | —                 | 1                            |
| Valencia ...                               | 30.537     | 49           | 48   | NE            | 1                    | 2                    | S          | 8                             | fm       | 0.02              | 1                            |
| Cape Clear ...                             | 30.478     | 45           | 44   | NE            | 1                    | 2                    | NE         | 7                             | fc       | 0.02              | 1                            |
| Roche's Point                              | 30.477     | 45           | 44   | N             | 1                    | 1                    | W          | 9                             | fo       | —                 | 1                            |
| Pembroke ...                               | 30.487     | 38           | 37   | E             | 4                    | 3                    | E          | 9                             | og       | 0.12              | 3                            |
| Penzance ...                               | 30.467     | 41           | 40   | ESE           | 2                    | 3                    | N          | 9                             | o2       | 0.05              | 4                            |
| Plymouth ...                               | 30.517     | 38           | 36   | NNE           | 2                    | 2                    | NNE        | 9                             | o28      | 0.08              | 1                            |
| Portsmouth ...                             | 30.527     | 35           | 33   | E             | 1                    | 2                    | ESE        | 8                             | o        | —                 | 1                            |
| London ...                                 | 30.547     | 35           | 33   | ENE           | 3                    | 4                    | E          | 9                             | oms      | —                 | —                            |
| Helder ...                                 | 30.61      | 34           | —    | ENE           | 6                    | —                    | —          | —                             | —        | —                 | 2                            |
| Cape Gris Nez                              | 30.507     | 34           | 32   | SE            | 4                    | 4                    | E          | 9                             | o        | —                 | 2                            |
| Brest ...                                  | 30.407     | 36           | 34   | ENE           | 3                    | 3                    | ENE        | 9                             | o        | —                 | 1                            |
| L'Orient ...                               | 30.387     | 32           | —    | ENE           | 5                    | 5                    | ENE        | 9                             | co       | —                 | 0                            |
| Rochefort ...                              | 30.347     | 34           | 34   | NE            | 5                    | 5                    | ENE        | 9                             | o        | —                 | 1                            |
| Biarritz ...                               | 30.287     | 30           | —    | E             | 4                    | 4                    | ESE        | 8                             | cf       | —                 | 3                            |
| Corunna ...                                |            |              |      |               |                      |                      |            |                               |          |                   |                              |
| Brussels ...                               |            |              |      |               |                      |                      |            |                               |          |                   |                              |
| Paris ...                                  |            |              |      |               |                      |                      |            |                               |          |                   |                              |
| Strasbourg ...                             |            |              |      |               |                      |                      |            |                               |          |                   |                              |
| Lyons ...                                  |            |              |      |               |                      |                      |            |                               |          |                   |                              |
| Toulon ...                                 | 30.142     | 37           | 32   | SW            | 1                    | 3                    | NNW        | 1                             | fb       | —                 | 3                            |
| Heart's Content<br>(9 a.m. local<br>time.) |            |              |      |               |                      |                      |            |                               |          |                   |                              |

## 2 P.M. REPORT.

|                 |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|
| Skudesnaes ...  |  |  |  |  |  |  |  |  |  |  |  |
| Nairn ...       |  |  |  |  |  |  |  |  |  |  |  |
| Scarborough ... |  |  |  |  |  |  |  |  |  |  |  |
| Greencastle ... |  |  |  |  |  |  |  |  |  |  |  |
| Valencia ..     |  |  |  |  |  |  |  |  |  |  |  |
| Penzance ...    |  |  |  |  |  |  |  |  |  |  |  |
| London ...      |  |  |  |  |  |  |  |  |  |  |  |
| Rochefort ...   |  |  |  |  |  |  |  |  |  |  |  |

**BAROMETER** corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER** exposed in shade. **EXTREME FORCE** with its Direction during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l.—lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**, snow or hail (melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

Rainfall is not reported from the Norwegian stations; and their "extremes" are the observations made at 8 pm. on the previous day.



## REMARKS.

Wednesday

Barometrical pressure has continued to increase at all the northern stations, and now exceeds 30.8 in. in Norway. In the south, however, there has been a slight decrease since last evening, and the reading at Aberdeen exceeds by 0.37 in. that at Rochefort.

Temperature has decreased generally, mostly on our Southern and the French coasts. Valencia is  $17^{\circ}$  warmer than Naxos, and  $19^{\circ}$  warmer than Biarritz.

NE winds have now extended to all but the extreme northern stations, and though light generally have freshened at the southeastern stations. In the north of Scotland and at Christiansund the wind is more from the S<sup>nd</sup>.

Fog and mist have been very prevalent in the west of our Islands, with a little rain. The sky continues overcast generally, with slight snow in the south of England. The sea is generally calm.

## CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

| Date.              | Station.                | Bar.    | Temp. |    | Wind. |   | Extreme. |    | Cloud. | Weather | Rain. | Sea. |
|--------------------|-------------------------|---------|-------|----|-------|---|----------|----|--------|---------|-------|------|
| JAN Y              |                         |         |       |    |       |   |          |    |        |         |       |      |
| 18 <sup>TH</sup>   | Greenacastle            | 30.5742 | 44    | 44 | NNW   | 1 | 1        | SW | 9      | no      | -     | -    |
| -                  | Cornwall                | 30.23   | 48    | -  | NE    | 3 | -        | -  | -      | 6       | -     | 4    |
| -                  | Brussels                | 30.58   | 36    | -  | NE    | 3 | -        | -  | -      | 0       | -     | -    |
| -                  | Paris                   | 30.53   | 31    | -  | NNE   | 4 | -        | -  | -      | 0       | -     | -    |
| -                  | Strasbourg              | 30.56   | 35    | -  | NE    | 6 | -        | -  | -      | 0       | -     | -    |
| -                  | Lyon                    | 30.30   | 28    | -  | NE    | 6 | -        | -  | -      | 6       | -     | -    |
| -                  | Hearts Cou <sup>e</sup> | 30.36   | 35    | 33 | SW    | 2 | 4        | N  | 8      | 60      | -     | 4    |
| <u>Corrections</u> |                         |         |       |    |       |   |          |    |        |         |       |      |
| -                  | Shields                 | -       | -     | -  | -     | - | -        | -  | -      | 0       | -     | -    |
| -                  | Boulogne                | -       | 46    | 45 | -     | - | -        | -  | -      | -       | -     | -    |
| -                  | Rochefort               | 30.445  | -     | -  | -     | - | -        | -  | -      | -       | -     | -    |

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.



EIGHT A.M.

WEATHER REPORT. 1870. *January 20<sup>th</sup>**Thursday*

| STATIONS.                               | Barometer.         | Thermometer. |      | Present Wind. |                      | Extreme Wind.        |            | Amount of Cloud.<br>(0 to 9.) | Weather. | Rain.<br>(Inches) | Sea Disturb.<br>(0 to 4) |
|---|--------------------|--------------|------|---------------|----------------------|----------------------|------------|-------------------------------|----------|-------------------|--------------------------|
|   |                    | Dry.         | Wet. | Direction.    | Force.<br>(0 to 12.) | Force.<br>(0 to 12.) | Direction. |                               |          |                   |                          |
| * Christiansund                         | 30.38              | 33           | 34   | SW            | 8                    | 8                    | SSW        | —                             | c        | —                 | 5                        |
| * Skudesnaes ...                        | 30.67              | 30           | —    | ESE           | 4                    | 4                    | ESE        | —                             | o        | —                 | 2                        |
| * Oxo (Christiansund)                   | 30.65              | 26           | —    | NNW           | 4                    | 4                    | NNE        | —                             | o        | —                 | 1                        |
| Thurso ...                              |                    |              |      |               |                      |                      |            |                               |          |                   |                          |
| Wick ...                                | 30.54 <sup>2</sup> | 37           | 35   | S             | 2                    | 3                    | S          | 7                             | c        | —                 | 2                        |
| Nairn ...                               | 30.54 <sup>2</sup> | 34           | 32   | SW            | 1                    | 0                    | Z          | 7                             | bo       | —                 | 1                        |
| Aberdeen ...                            | 30.63 <sup>2</sup> | 34           | 33   | Z             | 0                    | 1                    | S          | 9                             | cm       | —                 | 1                        |
| Leith ...                               | 30.64 <sup>2</sup> | 34           | 31   | SE            | 2                    | 2                    | SE         | 9                             | co       | —                 | —                        |
| Shields ...                             | —                  | 36           | 35   | E             | 3                    | 2                    | E          | 5                             | c        | —                 | 4                        |
| Scarborough ...                         | 30.57 <sup>2</sup> | 34           | 33   | E             | 3                    | 5                    | SE         | 9                             | o        | 0.04              | 4                        |
| Yarmouth ...                            | 30.50 <sup>2</sup> | 34           | 32   | ENE           | 7                    | 7                    | E          | 6                             | c        | —                 | 6                        |
| Ardrossan ...                           | 30.64 <sup>2</sup> | 34           | 31   | E             | 2                    | 2                    | E          | 7                             | c        | —                 | 1                        |
| Greencastle ...                         | 30.60 <sup>2</sup> | 37           | 33   | S             | 1                    | 3                    | SE         | 9                             | o        | —                 | —                        |
| Holyhead ...                            | 30.56 <sup>2</sup> | 35           | 33   | ENE           | 2                    | 4                    | ENE        | 9                             | o        | —                 | —                        |
| Liverpool ...                           | 30.57 <sup>2</sup> | —            | —    | ENE           | 1                    | 1                    | N          | 8                             | o        | —                 | 1                        |
| Valencia ...                            | 30.49 <sup>5</sup> | 39           | 36   | E             | 3                    | 3                    | ENE        | 6                             | oc       | —                 | 2                        |
| Cape Clear ...                          | 30.44 <sup>2</sup> | 39           | 36   | NE            | 4                    | 6                    | NE         | 8                             | o        | 0.02              | 2                        |
| Roche's Point                           | 30.50 <sup>2</sup> | 38           | 34   | ESE           | 3                    | 5                    | SE         | 9                             | o        | —                 | 2                        |
| Pembroke ...                            | 30.48 <sup>2</sup> | 34           | 31   | NE            | 3                    | 5                    | E          | 9                             | o        | —                 | 1                        |
| Penzance ...                            | 30.33 <sup>2</sup> | 33           | 32   | NNE           | 4                    | 4                    | E          | 7                             | oc       | —                 | 4                        |
| Plymouth ...                            | 30.43 <sup>2</sup> | 35           | 32   | E             | 2                    | 3                    | E          | 9                             | o        | 0.03              | 1                        |
| Portsmouth ...                          | 30.40 <sup>2</sup> | 33           | 30   | E             | 4                    | 5                    | E          | 8                             | o        | —                 | 4                        |
| London ...                              | 30.43 <sup>2</sup> | 33           | 31   | ENE           | 4                    | 6                    | E          | 9                             | os       | —                 | —                        |
| Helder ...                              | 30.47              | 32           | —    | ENE           | 7                    | —                    | —          | —                             | —        | —                 | 4                        |
| Cape Gris Nez                           | 30.35 <sup>2</sup> | 27           | —    | E             | 5                    | 7                    | E          | 9                             | o        | —                 | 3                        |
| Brest ...                               | 30.25 <sup>2</sup> | 36           | 32   | ENE           | 3                    | 4                    | E          | 7                             | co       | —                 | 2                        |
| L'Orient ...                            | 30.19 <sup>2</sup> | 30           | —    | ENE           | 7                    | 5                    | E          | 9                             | o        | —                 | 3                        |
| Rochefort ...                           | 30.17 <sup>2</sup> | 30           | —    | ENE           | 7                    | 7                    | ENE        | 6                             | c        | —                 | 1                        |
| Biarritz ...                            | 30.11 <sup>2</sup> | 32           | —    | ESE           | 4                    | 3                    | E          | 9                             | mo       | —                 | 2                        |
| Corunna ...                             |                    |              |      |               |                      |                      |            |                               |          |                   |                          |
| Brussels ...                            |                    |              |      |               |                      |                      |            |                               |          |                   |                          |
| Paris ...                               |                    |              |      |               |                      |                      |            |                               |          |                   |                          |
| Strasbourg ...                          |                    |              |      |               |                      |                      |            |                               |          |                   |                          |
| Lyons ...                               |                    |              |      |               |                      |                      |            |                               |          |                   |                          |
| Toulon ...                              | 29.96 <sup>2</sup> | 36           | 34   | SE            | 1                    | 4                    | WSW        | 8                             | c2       | —                 | 5                        |
| Heart's Content<br>(9 a.m. local time.) |                    |              |      |               |                      |                      |            |                               |          |                   |                          |

## 2 P.M. REPORT.

|                 |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|
| Skudesnaes ...  |  |  |  |  |  |  |  |  |  |  |  |
| Nairn ...       |  |  |  |  |  |  |  |  |  |  |  |
| Scarborough ... |  |  |  |  |  |  |  |  |  |  |  |
| Greencastle ... |  |  |  |  |  |  |  |  |  |  |  |
| Valencia ..     |  |  |  |  |  |  |  |  |  |  |  |
| Penzance ...    |  |  |  |  |  |  |  |  |  |  |  |
| London ...      |  |  |  |  |  |  |  |  |  |  |  |
| Rochefort ...   |  |  |  |  |  |  |  |  |  |  |  |

**BAROMETER** corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER** exposed in shade. **EXTREME FORCE** with its Direction during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l.—lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**, snow or hail (melted), during last 24 hours. **SEA DISTURBANCE**: o.—dead calm; 9.—extremely high sea.

\* Rainfall is not reported from the Norwegian stations; and their "extremes" are the observations made at 8 pm. on the previous day.



# REMARKS.

Thursday

The decrease of pressure continues slowly at the southern stations, and during the night a new diminution has shown itself in Norway, affecting in a less degree the readings on our own northern coasts. Pressure however continues very high in the north of the British Isles; and that Leith is 0.47 in. higher than that at Rochefort.

Temperature has again decreased generally, and is lowest at the Continental stations. Cape Greenwich is 10° colder than Ushak.

The E<sup>ly</sup> wind has freshened in the South of our Islands and over France. In the north a light S<sup>ly</sup> wind is still reported but at Christianund it has increased to a gale, with warmer weather.

The sky continues very cloudy, with slight snow in London. The sea has risen somewhat on our East coast.

## CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

| Date.            | Station.        | Bar.               | Temp. |    | Wind. |   | Extreme. |     | Cloud. | Weather | Rain. | Sea. |
|------------------|-----------------|--------------------|-------|----|-------|---|----------|-----|--------|---------|-------|------|
| JAN:             |                 |                    |       |    |       |   |          |     |        |         |       |      |
| 19 <sup>TH</sup> | Corunna         | 30.13              | 47    | -  | NE    | 9 | -        | -   | -      | b       | -     | 4    |
| "                | Brussels        | 30.49              | 36    | -  | NE    | 3 | -        | -   | -      | c       | -     | -    |
| "                | Paris           | 30.36              | 34    | -  | NNE   | 2 | -        | -   | -      | o       | -     | -    |
| "                | Strasbourg      | 30.44              | 32    | -  | N     | 6 | -        | -   | -      | o       | -     | -    |
| "                | Lyon            | 30.13              | 30    | -  | NE    | 3 | -        | -   | -      | b       | -     | -    |
| "                | Heart's Content | 30.25 <sub>h</sub> | 34    | 32 | N     | 2 | 3        | SEW | 8      | 2mo     | 0.10  | 3    |

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.



EIGHT A.M.

## WEATHER REPORT. 1870.

Fri-day

January 21<sup>st</sup>

| STATIONS.                                  | Barometer. | Thermometer. |      | Present Wind. |                      | Extreme Wind.        |            | Amount of Cloud.<br>(0 to 9.) | Weather. | Rain.<br>(Inches) | Sea Disturb.<br>(0 to 9.) |
|--|------------|--------------|------|---------------|----------------------|----------------------|------------|-------------------------------|----------|-------------------|---------------------------|
|  |            | Dry.         | Wet. | Direction.    | Force.<br>(0 to 12.) | Force.<br>(0 to 12.) | Direction. |                               |          |                   |                           |
| * Christiansund                            |            |              |      |               |                      |                      |            | —                             |          | —                 |                           |
| * Skudesnaes ...                           |            |              |      |               |                      |                      |            | —                             |          | —                 |                           |
| * Oxo (Christiansund)                      |            |              |      |               |                      |                      |            | —                             |          | —                 |                           |
| Thurso ...                                 |            |              |      |               |                      |                      |            |                               |          |                   |                           |
| Wick ...                                   | 30.39 f    | 36           | 35   | SSW           | 2                    | 3                    | S          | 6                             | c        | —                 | 2                         |
| Nairn ...                                  | 30.43 f    | 34           | 32   | SW            | 1                    | 1                    | SW         | 7                             | o        | —                 | 1                         |
| Aberdeen ...                               | 30.44 f    | 32           | —    | WSW           | 1                    | 1                    | WSW        | 9                             | co       | —                 | 1                         |
| Leith ...                                  | 30.48 f    | 32           | —    | WNW           | 2                    | 2                    | SSE        | 9                             | om       | —                 | —                         |
| Shields ...                                | —          | 34           | 32   | NE            | 2                    | 2                    | NW         | 4                             | c        | —                 | 5                         |
| Scarborough ...                            | 30.39 f    | 35           | 33   | E             | 2                    | 4                    | ENE        | 9                             | o        | —                 | 3                         |
| Yarmouth ...                               | 30.36 f    | 34           | 33   | NE            | 4                    | 7                    | ENE        | 6                             | c        | —                 | 4                         |
| Ardrossan ...                              | 30.52 f    | 33           | 34   | SW            | 1                    | 2                    | E          | 7                             | cm       | —                 | 0                         |
| Greencastle ...                            | 30.51 f    | 34           | 32   | N             | 1                    | 1                    | S          | 9                             | o        | —                 | —                         |
| Holyhead ...                               | 30.46 f    | 35           | 32   | ENE           | 3                    | 4                    | ENE        | 8                             | o        | —                 | —                         |
| Liverpool ...                              | 30.44 f    | —            | —    | NNE           | 1                    | 2                    | ENE        | 8                             | o        | —                 | 1                         |
| Valencia ...                               | 30.46 f    | 35           | 33   | E             | 3                    | 4                    | ESE        | 7                             | bc       | —                 | 2                         |
| Cape Clear ...                             | 30.40 f    | 35           | 33   | NE            | 5                    | 6                    | NE         | 8                             | o        | —                 | 6                         |
| Roche's Point                              | 30.53 f    | 35           | 32   | NE            | 3                    | 4                    | NE         | 9                             | o        | —                 | 2                         |
| Pembroke ...                               | 30.39 f    | 32           | —    | NE            | 4                    | 4                    | NE         | 9                             | o        | —                 | 1                         |
| Penzance ...                               | 30.26 f    | 33           | 31   | E             | 4                    | 5                    | NE         | 8                             | o        | —                 | 4                         |
| Plymouth ...                               | 30.35 f    | 33           | 31   | NE            | 3                    | 6                    | NE         | 9                             | o        | —                 | 2                         |
| Portsmouth ...                             | 30.30 f    | 32           | —    | ENE           | 4                    | 6                    | E          | 9                             | o        | —                 | 3                         |
| London ...                                 | 30.34 f    | 32           | —    | NE            | 4                    | 6                    | ENE        | 9                             | so       | —                 | —                         |
| Helder ...                                 | 30.32      | 31           | —    | ENE           | 3                    | —                    | —          | —                             | —        | —                 | 2                         |
| Cape Gris Nez                              | 30.25 f    | 28           | —    | E             | 4                    | 5                    | E          | 9                             | o        | —                 | 2                         |
| Brest ...                                  | 30.20 f    | 34           | 34   | ENE           | 3                    | 4                    | NE         | 9                             | o        | 0.01              | 1                         |
| L'Orient ...                               | 30.11 f    | 30           | —    | E             | 5                    | 7                    | ENE        | 9                             | o        | —                 | 3                         |
| Rochefort ...                              | 30.08 f    | 28           | —    | NE            | 7                    | 5                    | ENE        | 9                             | o        | —                 | 1                         |
| Biarritz ...                               | 30.26 r    | 30           | —    | SE            | 4                    | 3                    | E          | 9                             | o        | 0.01              | 3                         |
| Corunna ...                                |            |              |      |               |                      |                      |            |                               |          |                   |                           |
| Brussels ...                               |            |              |      |               |                      |                      |            |                               |          |                   |                           |
| Paris ...                                  |            |              |      |               |                      |                      |            |                               |          |                   |                           |
| Strasbourg ...                             |            |              |      |               |                      |                      |            |                               |          |                   |                           |
| Lyons ...                                  |            |              |      |               |                      |                      |            |                               |          |                   |                           |
| Toulon ...                                 | 29.98 r    | 39           | 39   | ENE           | 5                    | 7                    | SE         | 9                             | tr       | 0.24              | 6                         |
| Heart's Content<br>(9 a.m. local<br>time.) |            |              |      |               |                      |                      |            |                               |          |                   |                           |

## 2 P.M. REPORT.

|                 |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|
| Skudesnaes ...  |  |  |  |  |  |  |  |  |  |  |  |
| Nairn ...       |  |  |  |  |  |  |  |  |  |  |  |
| Scarborough ... |  |  |  |  |  |  |  |  |  |  |  |
| Greencastle ... |  |  |  |  |  |  |  |  |  |  |  |
| Valencia ..     |  |  |  |  |  |  |  |  |  |  |  |
| Penzance ..     |  |  |  |  |  |  |  |  |  |  |  |
| London ...      |  |  |  |  |  |  |  |  |  |  |  |
| Rochefort ...   |  |  |  |  |  |  |  |  |  |  |  |

**BAROMETER** corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER** exposed in shade. **EXTREME FORCE** with its Direction during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l.—lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**, snow or hail (melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

\* Rainfall is not reported from the Norwegian stations; and their "extremes" are the observations made at 8 pm. on the previous day.



# REMARKS.

Friz- day

Barometrical readings are again a little lower everywhere - the greatest change being on our Eastern coasts and amounting to about 0.2 in. Pressure is now highest in the Northwest and the reading at Ardrossan is 0.44 in above that at Rochefort.

Temperature is generally lower, and the cold weather continues in France.

The light SW<sup>ly</sup> breezes still hold in Scotland but elsewhere moderate to light NE<sup>ly</sup> winds prevail. The sky is very cloudy but weather continues dry. The sea is moderate.

## CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

| Date.            | Station.        | Bar.  | Temp. | Wind. | Extreme. | Cloud. | Weather. | Rain. | Sea. |
|------------------|-----------------|-------|-------|-------|----------|--------|----------|-------|------|
| Jan 7            | Comuna          | 30.11 | 46    | NE    | 9        | -      | C        | -     | 4    |
| 20 <sup>th</sup> | Brussels        | 30.53 | 28    | NE    | 6        | -      | S        | -     | -    |
|                  | Paris           | 30.21 | 26    | NE    | 6        | -      | O        | -     | -    |
|                  | Strasbourg      | 30.32 | 26    | N     | 6        | -      | OS       | -     | -    |
|                  | Lyon            | 30.08 | 32    | N     | 3        | -      | C        | -     | -    |
|                  | Heart's Content | 30.57 | 25    | ESE   | 1        | 3      | Bo       | -     | 2    |

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.



EIGHT A.M.

## WEATHER REPORT. 1870.

January 22<sup>nd</sup>

Saturday

| STATIONS.                                  | Barometer. | Thermometer. |      | Present Wind. |                      | Extreme Wind.        |            | Amount of Cloud.<br>(0 to 9.) | Weather. | Rain.<br>(Inches) | Sea<br>Disturb.<br>(0 to 4) |
|--|------------|--------------|------|---------------|----------------------|----------------------|------------|-------------------------------|----------|-------------------|-----------------------------|
|  |            | Dry.         | Wet. | Direction.    | Force.<br>(0 to 12.) | Force.<br>(0 to 12.) | Direction. |                               |          |                   |                             |
| * Christiansund                            | 30.06      | 39           | 35   | SSW           | 4                    | 6                    | SSW        | —                             | o        | —                 | 5                           |
| * Skudesnaes ...                           | 30.17      | 35           | 33   | NNW           | 4                    | 0                    | Z          | —                             | o 2 b    | —                 | 2                           |
| * Oxo (Christiansund)                      | 30.07      | 32           | 31   | NNW           | 4                    | 4                    | SW         | —                             | c b      | —                 | 1                           |
| Thurso ...                                 |            |              |      |               |                      |                      |            |                               |          |                   |                             |
| Wick ...                                   | 30.33 f    | 38           | 37   | WNW           | 2                    | 3                    | WSW        | 5                             | c        | —                 | 2                           |
| Nairn ...                                  | 30.40 s    | 38           | 36   | SW            | 1                    | 1                    | SW         | 8                             | o        | —                 | 1                           |
| Aberdeen ...                               | 30.40 f    | 36           | 35   | Z             | 0                    | 1                    | WSW        | 8                             | c m      | —                 | 1                           |
| Leith ...                                  | 30.44 s    | 33           | 32   | W             | 1                    | 2                    | WNW        | 5                             | o f      | —                 | —                           |
| Shields ...                                | —          | 32           | —    | NW            | 2                    | 2                    | W          | 4                             | c        | —                 | 3                           |
| Scarborough ...                            | 30.42 f    | 29           | —    | NNW           | 1                    | 2                    | NE         | 2                             | o b      | —                 | 2                           |
| Yarmouth ...                               | 30.37 f    | 38           | 37   | NNW           | 2                    | 4                    | NE         | 6                             | c        | —                 | 2                           |
| Ardrossan ...                              | 30.47 s    | 33           | 31   | E             | 2                    | 2                    | NNW        | 6                             | c m      | —                 | 1                           |
| Greencastle ...                            | 30.49 2    | 35           | 34   | WNW           | 1                    | 1                    | E          | 4                             | o m      | —                 | —                           |
| Holyhead ...                               | 30.45 s    | 35           | 33   | ENE           | 1                    | 3                    | ENE        | 9                             | o        | —                 | —                           |
| Liverpool ...                              | 30.44 2    | —            | —    | W             | 2                    | 1                    | ENE        | 8                             | o        | —                 | 1                           |
| Valencia ...                               | 30.49 f    | 34           | 32   | E             | 3                    | 4                    | E          | 9                             | c o      | —                 | 2                           |
| Cape Clear ...                             | 30.43 2    | 35           | 34   | NE            | 4                    | 4                    | NE         | 0                             | c b      | —                 | 2                           |
| Roche's Point                              | 30.45 s    | 34           | 32   | NE            | 2                    | 3                    | NE         | 9                             | o        | —                 | 2                           |
| Pembroke ...                               | 30.44 2    | 35           | 31   | NE            | 3                    | 4                    | NE         | 9                             | o        | —                 | 1                           |
| Penzance ...                               | 30.34 2    | 34           | 32   | NE            | 5                    | 6                    | NE         | 8                             | o        | —                 | 4                           |
| Plymouth ...                               | 30.40 2    | 35           | 32   | ENE           | 3                    | 5                    | ENE        | 9                             | o        | —                 | 2                           |
| Portsmouth ...                             | 30.37 2    | 32           | —    | ENE           | 1                    | 4                    | ENE        | 4                             | o c      | —                 | 1                           |
| London ...                                 | 30.39 2    | 33           | 32   | NE            | 2                    | 4                    | NE         | 9                             | o c m    | —                 | —                           |
| Helder ...                                 | 30.27      | 39           | —    | N             | 4                    | —                    | —          | —                             | —        | —                 | 2                           |
| Cape Gris Nez                              | 30.34 2    | 28           | —    | E             | 1                    | 5                    | E          | 6                             | o        | —                 | 0                           |
| Brest ...                                  |            |              |      |               |                      |                      |            |                               |          |                   |                             |
| L'Orient ...                               | 30.12 2    | 46           | 46   | E             | 7                    | 7                    | E          | 7                             | c        | —                 | 3                           |
| Rochefort ...                              | 30.09 f    | 28           | —    | ENE           | 7                    | 7                    | ENE        | 9                             | o s      | 0.07              | 1                           |
| Biarritz ...                               |            |              |      |               |                      |                      |            |                               |          |                   |                             |
| Corunna ...                                |            |              |      |               |                      |                      |            |                               |          |                   |                             |
| Brussels ...                               |            |              |      |               |                      |                      |            |                               |          |                   |                             |
| Paris ...                                  |            |              |      |               |                      |                      |            |                               |          |                   |                             |
| Strasbourg ...                             |            |              |      |               |                      |                      |            |                               |          |                   |                             |
| Lyons ...                                  |            |              |      |               |                      |                      |            |                               |          |                   |                             |
| Toulon ...                                 |            |              |      |               |                      |                      |            |                               |          |                   |                             |
| Heart's Content<br>(9 a.m. local<br>time.) |            |              |      |               |                      |                      |            |                               |          |                   |                             |

## 2 P.M. REPORT.

|                 |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|
| Skudesnaes ...  |  |  |  |  |  |  |  |  |  |  |  |
| Nairn ...       |  |  |  |  |  |  |  |  |  |  |  |
| Scarborough ... |  |  |  |  |  |  |  |  |  |  |  |
| Greencastle ... |  |  |  |  |  |  |  |  |  |  |  |
| Valencia ..     |  |  |  |  |  |  |  |  |  |  |  |
| Penzance ...    |  |  |  |  |  |  |  |  |  |  |  |
| London ...      |  |  |  |  |  |  |  |  |  |  |  |
| Rochefort ...   |  |  |  |  |  |  |  |  |  |  |  |

**BAROMETER** corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER** exposed in shade. **EXTREME FORCE** with its Direction during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l.—lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**, snow or hail (melted), during last 24 hours. **SEA DISTURBANCE**: 0—dead calm; 9—extremely high sea.

\* Rainfall is not reported from the Norwegian stations; and their "extremes" are the observations made at 8 pm. on the previous day.



## REMARKS.

Satur. day

There is very little change to report. Barometrical pressure continues to decrease in Norway but is high and remarkably uniform in our Islands, and rising slightly in the south.

Temperature has changed little and irregularly; and is also very uniform though rather lowest in the east, and in France. Light to moderate NE<sup>ly</sup> winds continue at the southern stations, light NW<sup>ly</sup> breezes in the east, and variable airs in Scotland.

The sky is clear on the east coast, cloudy elsewhere. The sea is calm.

## CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

*Reports received too late for insertion in their proper places.*

| Date.            | Station.                   | Bar.     | Temp. |    | Wind. |   | Extreme. |     | Cloud. | Weather. | Rain. | Sea. |
|------------------|----------------------------|----------|-------|----|-------|---|----------|-----|--------|----------|-------|------|
| Jan <sup>y</sup> | Christiansund              | 30.06    | 40    | 40 | SW    | 8 | 8        | SW  | -      | OT       | -     | 5    |
| 21 <sup>st</sup> | Skudesnes                  | 30.26    | 35    | 32 | Z     | 0 | 0        | Z   | -      | 0        | -     | 2    |
| -                | Oxø                        | 30.26    | 20    | -  | NNW   | 6 | 4        | NNW | -      | cb       | -     | -    |
| -                | Comuna                     | 30.11    | 45    | -  | NE    | 6 | -        | -   | -      | 0        | -     | 4    |
| -                | Brussels                   | 30.26    | 30    | -  | NE    | 3 | -        | -   | -      | c        | -     | -    |
| -                | Paris                      | 30.21    | 27    | -  | NNE   | 2 | -        | -   | -      | 0        | -     | -    |
| -                | Strasbourg                 | 30.30    | 27    | -  | NE    | 3 | -        | -   | -      | c        | -     | -    |
| -                | Lyon                       | 30.06    | 37    | -  | N     | 3 | -        | -   | -      | c        | -     | -    |
| -                | Heart's Content            | 30.23 f  | 33    | 32 | S     | 1 | 2        | SSW | 8      | bo       | -     | 3    |
| <hr/>            |                            |          |       |    |       |   |          |     |        |          |       |      |
|                  | Correction<br>Roches Point | 30.43 f. |       |    |       |   |          |     |        |          |       |      |
| <hr/>            |                            |          |       |    |       |   |          |     |        |          |       |      |
| <hr/>            |                            |          |       |    |       |   |          |     |        |          |       |      |
| <hr/>            |                            |          |       |    |       |   |          |     |        |          |       |      |

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.



EIGHT A.M.

## WEATHER REPORT. 1870.

Sun-day

January 23<sup>rd</sup>

| STATIONS.                               | Barometer. | Thermometer. |      | Present Wind. |                      | Extreme Wind.        |            | Amount of Cloud.<br>(0 to 9.) | Weather. | Rain.<br>(Inches) | Sea Disturb.<br>(0 to 9.) |
|---|------------|--------------|------|---------------|----------------------|----------------------|------------|-------------------------------|----------|-------------------|---------------------------|
|   |            | Dry.         | Wet. | Direction.    | Force.<br>(0 to 12.) | Force.<br>(0 to 12.) | Direction. |                               |          |                   |                           |
| * Christiansund                         | 30.24      | 35           | 31   | W             | 6                    | 6                    | WNW        | —                             | o        | —                 | 6                         |
| * Skudesnaes ...                        | 30.35      | 32           | —    | NNW           | 2                    | 0                    | Z          | —                             | b        | —                 | 2                         |
| * Oxo (Christiansund)                   | 30.21      | 26           | —    | NNW           | 4                    | 2                    | WNW        | —                             | b        | —                 | 1                         |
| Thurso ...                              |            |              |      |               |                      |                      |            |                               |          |                   |                           |
| Wick ...                                | 30.50r     | 36           | 35   | WNW           | 2                    | 2                    | WNW        | 4                             | c        | 0.04              | 2                         |
| Nairn ...                               | 30.53r     | 33           | 32   | SW            | 1                    | 1                    | SW         | 1                             | ob       | 0.17              | 1                         |
| Aberdeen ...                            | 30.55r     | 36           | 35   | NNW           | 1                    | 1                    | NW         | 4                             | c        | 0.02              | 1                         |
| Leith ...                               | 30.53r     | 35           | 35   | ESE           | 1                    | 2                    | WNW        | 9                             | fm       | 0.01              | —                         |
| Shields ...                             | —          | 38           | 38   | ENE           | 2                    | 2                    | NW         | 8                             | or       | —                 | 3                         |
| Scarborough ...                         | 30.47r     | 41           | 39   | NNE           | 3                    | 1                    | NNW        | 2                             | cfo      | 0.14              | 3                         |
| Yarmouth ...                            | 30.40r     | 40           | 38   | NNE           | 6                    | 6                    | N          | 3                             | c        | —                 | 5                         |
| Ardrossan ...                           | 30.53r     | 34           | 33   | SE            | 1                    | 1                    | E          | 6                             | fm       | —                 | 1                         |
| Greencastle ...                         | 30.59r     | 43           | 40   | N             | 1                    | 1                    | WNW        | 5                             | me       | —                 | —                         |
| Holyhead ...                            | 30.52r     | 36           | 35   | SSW           | 1                    | 1                    | NNW        | 9                             | om       | —                 | —                         |
| Liverpool ...                           | 30.50s     | —            | —    | W             | 1                    | 2                    | W          | 8                             | o        | —                 | 1                         |
| Valencia ...                            | 30.59r     | 34           | 32   | E             | 3                    | 3                    | E          | 0                             | ob       | —                 | 2                         |
| Cape Clear ...                          | 30.51r     | 37           | 35   | NE            | 4                    | 5                    | E          | 6                             | c        | —                 | 2                         |
| Roche's Point                           | 30.53r     | 36           | 33   | NE            | 3                    | 5                    | NE         | 3                             | oc       | —                 | 1                         |
| Pembroke ...                            | 30.47f     | 34           | 31   | NE            | 2                    | 2                    | NNE        | 1                             | ob       | —                 | 1                         |
| Penzance ...                            | —          | 33           | 32   | NNW           | 3                    | 5                    | NE         | 0                             | sob      | 0.32              | 2                         |
| Plymouth ...                            | 30.47r     | 31           | —    | ENE           | 1                    | 3                    | ENE        | 5                             | c        | —                 | 0                         |
| Portsmouth ...                          | 30.40s     | 36           | 35   | NE            | 3                    | 3                    | NE         | 8                             | co       | —                 | 2                         |
| London ...                              | 30.39f     | 37           | 36   | NNW           | 1                    | 3                    | N          | 9                             | or       | 0.01              | —                         |
| Helder ...                              |            |              |      |               |                      |                      |            |                               |          |                   |                           |
| Cape Gris Nez                           | 30.27f     | 41           | 41   | NNE           | 7                    | 4                    | NE         | 9                             | or       | 0.01              | 4                         |
| Brest ...                               | 30.37r     | 37           | 35   | NE            | 3                    | 5                    | ENE        | 9                             | cf       | —                 | 1                         |
| L'Orient ...                            | 30.27r     | 37           | 35   | ENE           | 5                    | 7                    | ENE        | 9                             | co       | —                 | 3                         |
| Rochefort ...                           | 30.21r     | 36           | 34   | ENE           | 7                    | 5                    | NNE        | 0                             | ob       | —                 | 1                         |
| Biarritz ...                            | 30.18      | 27           | —    | ESE           | 3                    | 3                    | E          | 8                             | s        | 0.20              | 3                         |
| Corunna ...                             | 30.23      | 44           | —    | NE            | 9                    | —                    | —          | —                             | s        | —                 | 4                         |
| Brussels ...                            | 30.25      | 36           | —    | NNE           | 3                    | —                    | —          | —                             | rsob     | —                 | —                         |
| Paris ...                               | 30.21      | 36           | —    | NE            | 4                    | —                    | —          | —                             | or       | —                 | —                         |
| Strasbourg ...                          | 30.27      | 27           | —    | NE            | 6                    | —                    | —          | —                             | c        | —                 | —                         |
| Lyons ...                               | 30.06      | 30           | —    | N             | 3                    | —                    | —          | —                             | b        | —                 | —                         |
| Toulon ...                              | 29.81r     | 41           | 37   | SSW           | 1                    | 11                   | NE         | 8                             | ro       | 0.01              | 7                         |
| Heart's Content<br>(9 a.m. local time.) | 30.40r     | 18           | —    | SW            | 1                    | 6                    | N          | 4                             | c        | —                 | 2                         |

## 2 P.M. REPORT.

|                 |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|
| Skudesnaes ...  |  |  |  |  |  |  |  |  |  |  |  |
| Nairn ...       |  |  |  |  |  |  |  |  |  |  |  |
| Scarborough ... |  |  |  |  |  |  |  |  |  |  |  |
| Greencastle ... |  |  |  |  |  |  |  |  |  |  |  |
| Valencia ..     |  |  |  |  |  |  |  |  |  |  |  |
| Penzance ...    |  |  |  |  |  |  |  |  |  |  |  |
| London ...      |  |  |  |  |  |  |  |  |  |  |  |
| Rochefort ...   |  |  |  |  |  |  |  |  |  |  |  |

**BAROMETER** corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER** exposed in shade. **EXTREME FORCE** with its Direction during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l.—lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**, snow or hail (melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

\* Rainfall is not reported from the Norwegian stations, and their "extremes" are the observations made at 8 pm. on the previous day.



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EIGHT A.M.

## WEATHER REPORT. 1870.

Monday

January 26<sup>th</sup>

| STATIONS.                               | Barometer.         | Thermometer. |      | Present Wind. |                      | Extreme Wind.        |            | Amount of Cloud.<br>(0 to 9.) | Weather. | Rain.<br>(Inches) | Sea Disturb.<br>(0 to 9.) |
|---|--------------------|--------------|------|---------------|----------------------|----------------------|------------|-------------------------------|----------|-------------------|---------------------------|
|   |                    | Dry.         | Wet. | Direction.    | Force.<br>(0 to 12.) | Force.<br>(0 to 12.) | Direction. |                               |          |                   |                           |
| * Christiansund                         |                    |              |      |               |                      |                      |            | —                             |          | —                 |                           |
| * Skudesnaes ...                        |                    |              |      |               |                      |                      |            | —                             |          | —                 |                           |
| * Oxo (Christiansund)                   |                    |              |      |               |                      |                      |            | —                             |          | —                 |                           |
| Thurso ...                              |                    |              |      |               |                      |                      |            |                               |          |                   |                           |
| Wick ...                                | 30.47 <sup>f</sup> | 33           | 32   | NNW           | 2                    | 2                    | WNW        | 6                             | c        | —                 | 2                         |
| Nairn ...                               | 30.54 <sup>f</sup> | 30           | —    | SW            | 1                    | 1                    | SW         | 1                             | mb       | —                 | 1                         |
| Aberdeen ...                            | 30.53 <sup>f</sup> | 31           | —    | NW            | 1                    | 1                    | NNW        | 0                             | b        | —                 | 1                         |
| Leith ...                               | 30.57 <sup>f</sup> | 28           | —    | WNW           | 2                    | 2                    | NNE        | 2                             | bf       | —                 | —                         |
| Shields ...                             | —                  | 35           | 33   | N             | 2                    | 2                    | ENE        | 3                             | oc       | —                 | 3                         |
| Scarborough ...                         | 30.49 <sup>f</sup> | 39           | 38   | NNE           | 3                    | 3                    | NE         | 5                             | oc       | 0.04              | 3                         |
| Yarmouth ...                            | 30.44 <sup>r</sup> | 38           | 37   | NE            | 4                    | 6                    | NNE        | 4                             | c        | 0.13              | 4                         |
| Ardrossan ...                           | 30.59 <sup>r</sup> | 33           | 32   | SE            | 1                    | 2                    | E          | 6                             | cf       | —                 | 1                         |
| Greencastle ...                         | 30.58 <sup>f</sup> | 33           | 32   | WSW           | 1                    | 1                    | N          | 9                             | cf       | —                 | —                         |
| Holyhead ...                            | 30.53 <sup>s</sup> | 35           | 34   | ENE           | 1                    | 2                    | NNW        | 0                             | ob       | —                 | —                         |
| Liverpool ...                           | 30.53              | —            | —    | NNW           | 3                    | 2                    | WNW        | 6                             | of       | —                 | 1                         |
| Valencia ...                            | 30.54 <sup>f</sup> | 39           | 37   | ESE           | 4                    | 3                    | E          | 1                             | cb       | —                 | 2                         |
| Cape Clear ...                          | 30.48 <sup>f</sup> | 35           | 33   | NE            | 3                    | 3                    | NE         | 3                             | cb       | —                 | 0                         |
| Roche's Point                           | 30.48 <sup>f</sup> | 38           | 35   | NE            | 2                    | 3                    | NE         | 9                             | co       | —                 | 1                         |
| Pembroke ...                            | 30.48 <sup>s</sup> | 33           | 30   | NE            | 2                    | 2                    | NNE        | 7                             | oc       | —                 | 1                         |
| Penzance ...                            | —                  | 33           | 32   | N             | 4                    | 4                    | N          | 2                             | cb       | —                 | 4                         |
| Plymouth ...                            | 30.43 <sup>f</sup> | 37           | 34   | NE            | 2                    | 5                    | NE         | 9                             | co       | —                 | 1                         |
| Portsmouth ...                          | 30.36 <sup>f</sup> | 37           | 35   | NE            | 3                    | 4                    | ENE        | 8                             | om       | —                 | 3                         |
| London ...                              | 30.39 <sup>f</sup> | 36           | 34   | NE            | 2                    | 5                    | NNE        | 9                             | rb       | —                 | —                         |
| Helder ...                              |                    |              |      |               |                      |                      |            | —                             |          | —                 |                           |
| Cape Gris Nez                           | 30.30 <sup>f</sup> | 34           | 34   | E             | 4                    | 7                    | NE         | 3                             | rc       | 0.04              | 2                         |
| Brest ...                               | 30.30 <sup>f</sup> | 37           | 33   | ENE           | 3                    | 4                    | NE         | 9                             | o        | —                 | 0                         |
| L'Orient ...                            | 30.22 <sup>f</sup> | 37           | 35   | NE            | 4                    | 5                    | NNE        | 9                             | o        | —                 | 2                         |
| Rochefort ...                           |                    |              |      |               |                      |                      |            |                               |          |                   |                           |
| Biarritz ...                            | 30.19 <sup>f</sup> | 34           | 32   | E             | 3                    | 3                    | SE         | 9                             | so       | —                 | 3                         |
| Corunna ...                             |                    |              |      |               |                      |                      |            | —                             |          | —                 | —                         |
| Brussels ...                            |                    |              |      |               |                      |                      |            | —                             |          | —                 | —                         |
| Paris ...                               |                    |              |      |               |                      |                      |            | —                             |          | —                 | —                         |
| Strasbourg ...                          |                    |              |      |               |                      |                      |            | —                             |          | —                 | —                         |
| Lyons ...                               |                    |              |      |               |                      |                      |            | —                             |          | —                 | —                         |
| Toulon ...                              | 30.24 <sup>f</sup> | 34           | 30   | NNW           | 7                    | 3                    | SE         | 4                             | fc       | —                 | 6                         |
| Heart's Content<br>(9 a.m. local time.) |                    |              |      |               |                      |                      |            |                               |          |                   |                           |

## 2 P.M. REPORT.

|                 |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|
| Skudesnaes ...  |  |  |  |  |  |  |  |  |  |  |  |
| Nairn ...       |  |  |  |  |  |  |  |  |  |  |  |
| Scarborough ... |  |  |  |  |  |  |  |  |  |  |  |
| Greencastle ... |  |  |  |  |  |  |  |  |  |  |  |
| Valencia ..     |  |  |  |  |  |  |  |  |  |  |  |
| Penzance ...    |  |  |  |  |  |  |  |  |  |  |  |
| London ...      |  |  |  |  |  |  |  |  |  |  |  |
| Rochefort ...   |  |  |  |  |  |  |  |  |  |  |  |

**BAROMETER** corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER** exposed in shade. **EXTREME FORCE** with its Direction during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l.—lightning; m.—misty (hazy); o.—overcast (all); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**, snow or hail (melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

\* Rainfall is not reported from the Norwegian stations; and their "extremes" are the observations made at 8 p.m. on the previous day.



## REMARKS.

Mon-day

Atmospherical pressure has varied but little since Saturday, and continues uniformly high in our Islands, especially in the north-west; while in France it is rather lower. The reading at Ardrossan is 0.37 in. higher than that at L'Orient.

Temperature rose several degrees at most stations yesterday but has fallen somewhat to-day in the north and east. The readings are rather low generally, and Leith is 11° colder than Valencia.

The wind freshened from NE at the south-eastern and French stations yesterday but has again fallen light; and to-day light winds (variable in the north and NE<sup>ly</sup> in the south) are reported.

The sky has cleared in Scotland, but a large amount of cloud is general elsewhere. The sea is calm.

## CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

| Date.                | Station.        | Bar.               | Temp. |    | Wind. |   | Extreme. |     | Cloud. | Weather. | Rain. | Sea. |
|----------------------|-----------------|--------------------|-------|----|-------|---|----------|-----|--------|----------|-------|------|
| JAN 22 <sup>ND</sup> | Brest           | 30.24 <sup>2</sup> | 34    | 30 | ENE   | 4 | 4        | ENE | 3      | b        | —     | 2    |
| ---                  | Biarritz        | 30.02              | 28    | —  | E     | 3 | 3        | E   | 9      | mo       | —     | 3    |
| ---                  | Borunna         | 30.13              | 44    | —  | NE    | 6 | —        | —   | —      | c        | —     | —    |
| ---                  | Brunels         | 30.33              | 31    | —  | ENE   | 1 | —        | —   | —      | o        | —     | —    |
| ---                  | Paris           | 30.28              | 26    | —  | E     | 4 | —        | —   | —      | o        | —     | —    |
| ---                  | Strasbourg      | 30.38              | 26    | —  | NE    | 3 | —        | —   | —      | o        | —     | —    |
| ---                  | Lyon            | 29.73              | 35    | —  | N     | 3 | —        | —   | —      | o        | —     | —    |
| ---                  | Heart's Content | 29.82 <sup>2</sup> | 32    | —  | W     | 3 | 5        | S   | 4      | sc       | 0.15  | 5    |

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.



EIGHT A.M.

WEATHER REPORT. 1870. *January 25<sup>th</sup>**Tues. day*

| STATIONS.                                  | Barometer. | Thermometer. |      | Present Wind. |                      | Extreme Wind.        |            | Amount of Cloud.<br>(0 to 9.) | Weather. | Rain.<br>(Inches) | Sea<br>Disturbance<br>(0 to 9) |
|--|------------|--------------|------|---------------|----------------------|----------------------|------------|-------------------------------|----------|-------------------|--------------------------------|
|  |            | Dry.         | Wet. | Direction.    | Force.<br>(0 to 12.) | Force.<br>(0 to 12.) | Direction. |                               |          |                   |                                |
| * Christiansund                            |            |              |      |               |                      |                      |            | —                             |          | —                 |                                |
| * Skudesnaes ...                           |            |              |      |               |                      |                      |            | —                             |          | —                 |                                |
| * Oxo (Christiansund)                      |            |              |      |               |                      |                      |            | —                             |          | —                 |                                |
| Thurso ...                                 |            |              |      |               |                      |                      |            |                               |          |                   |                                |
| Wick ...                                   | 30.432     | 38           | 37   | WSW           | 2                    | 2                    | WNW        | 6                             | c        | 0.03              | 2                              |
| Nairn ...                                  | 30.472     | 34           | 32   | SW            | 1                    | 1                    | SW         | 4                             | oc       | 0.02              | 1                              |
| Aberdeen ...                               | 30.512     | 36           | 35   | Z             | 0                    | 1                    | NW         | 6                             | bc       | 0.01              | 1                              |
| Leith ...                                  | 30.522     | 31           | —    | WNW           | 2                    | 2                    | NW         | 6                             | bf       | —                 | —                              |
| Shields ...                                | —          | 36           | 35   | NE            | 2                    | 2                    | N          | 2                             | cm       | —                 | 4                              |
| Scarborough...                             | 30.492     | 39           | 38   | E             | 2                    | 4                    | NNE        | 8                             | co       | 0.11              | 3                              |
| Yarmouth ...                               | 30.462     | 36           | 34   | NE            | 5                    | 5                    | N          | 2                             | c        | —                 | 5                              |
| Ardrossan ...                              | 30.552     | 26           | —    | NE            | 2                    | 2                    | WNW        | 4                             | f        | —                 | 1                              |
| Greencastle ...                            | 30.512     | 31           | —    | W             | 1                    | 1                    | SW         | 5                             | f        | —                 | —                              |
| Holyhead ...                               | 30.512     | 31           | —    | SSW           | 1                    | 2                    | ENE        | 1                             | bm       | —                 | —                              |
| Liverpool ...                              | 30.502     | —            | —    | NE            | 2                    | 1                    | WNW        | 7                             | cf       | —                 | 1                              |
| Valencia ...                               | 30.502     | 33           | 31   | E             | 3                    | 3                    | E          | 1                             | ob       | —                 | 2                              |
| Cape Clear ...                             | 30.452     | 35           | 33   | ESE           | 3                    | 4                    | ESE        | 6                             | c        | 0.02              | 2                              |
| Roche's Point                              | 30.492     | 35           | 32   | NE            | 3                    | 4                    | E          | 9                             | co       | —                 | 1                              |
| Pembroke ...                               | 30.462     | 35           | 33   | NE            | 2                    | 3                    | NE         | 7                             | c        | —                 | 1                              |
| Penzance ...                               | —          | 37           | 36   | NE            | 5                    | 6                    | N          | 8                             | co       | 0.32              | 4                              |
| Plymouth ...                               | 30.422     | 38           | 36   | Z             | 0                    | 4                    | N          | 7                             | o        | —                 | 1                              |
| Portsmouth ...                             | 30.392     | 36           | 35   | E             | 2                    | 3                    | E          | 8                             | cmo      | —                 | 2                              |
| London ...                                 | 30.402     | 36           | 35   | NE            | 2                    | 2                    | NE         | 7                             | rc       | 0.01              | —                              |
| Helder ...                                 | 30.432     | 32           | —    | ENE           | ?                    | —                    | —          | —                             | —        | —                 | 4                              |
| Cape Gris Nez                              | 30.322     | 37           | 35   | E             | 5                    | 5                    | E          | 4                             | sc       | 0.02              | 3                              |
| Brest ...                                  | 30.322     | 34           | 32   | ENE           | 3                    | 4                    | NE         | 2                             | ob       | —                 | 1                              |
| L'Orient ...                               | 30.242     | 30           | —    | ENE           | 7                    | 5                    | NE         | 7                             | c        | —                 | 3                              |
| Rochefort ...                              | 30.212     | 30           | —    | ENE           | 7                    | 7                    | ENE        | 9                             | o        | —                 | 1                              |
| Biarritz...                                | 30.192     | 30           | —    | E             | 4                    | 3                    | E          | 9                             | so       | —                 | 2                              |
| Corunna ...                                |            |              |      |               |                      |                      |            |                               |          |                   |                                |
| Brussels ...                               |            |              |      |               |                      |                      |            |                               |          |                   |                                |
| Paris ...                                  |            |              |      |               |                      |                      |            |                               |          |                   |                                |
| Strasbourg ...                             |            |              |      |               |                      |                      |            |                               |          |                   |                                |
| Lyons ...                                  |            |              |      |               |                      |                      |            |                               |          |                   |                                |
| Toulon...                                  | 29.822     | 30           | —    | NW            | 7                    | 5                    | WNW        | 0                             | cb       | —                 | 0                              |
| Heart's Content<br>(9 a.m. local<br>time.) |            |              |      |               |                      |                      |            |                               |          |                   |                                |

## 2 P.M. REPORT.

|                 |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|
| Skudesnaes ...  |  |  |  |  |  |  |  |  |  |  |  |
| Nairn ...       |  |  |  |  |  |  |  |  |  |  |  |
| Scarborough...  |  |  |  |  |  |  |  |  |  |  |  |
| Greencastle ... |  |  |  |  |  |  |  |  |  |  |  |
| Valencia ..     |  |  |  |  |  |  |  |  |  |  |  |
| Penzance ...    |  |  |  |  |  |  |  |  |  |  |  |
| London...       |  |  |  |  |  |  |  |  |  |  |  |
| Rochefort ...   |  |  |  |  |  |  |  |  |  |  |  |

**BAROMETER** corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER** exposed in shade. **EXTREME FORCE** with its Direction during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l.—lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**, snow or hail (melted), during last 24 hours. **SEA DISTURBANCE**: 0—dead calm; 9—extremely high sea.

\* Rainfall is not reported from the Norwegian stations; and their "extremes" are the observations made at 8 pm. on the previous day.



## REMARKS.

Tues day

Barometrical pressure is slightly lower in the north-west than it was yesterday, but is otherwise unchanged.

Temperature also has varied little, though the tendency has been to decrease in the west generally.

Variable W<sup>ly</sup> breezes are still reported in the north, and NE<sup>ly</sup> in the south; the latter having freshened a little in the Bay of Biscay.

The sky continues cloudy except on the east coast. The sea is moderate in the east and south-west, calm elsewhere.

## CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

| Date.            | Station.        | Bar.   | Temp. |    | Wind. |   | Extreme. |     | Cloud. | Weather | Rain. | Sea. |
|------------------|-----------------|--------|-------|----|-------|---|----------|-----|--------|---------|-------|------|
| JAN              |                 |        |       |    |       |   |          |     |        |         |       |      |
| 24 <sup>TH</sup> | Helder          | 30.40  | 31    | —  | ESE   | 2 | —        | —   | —      | —       | —     | 2    |
| ---              | Rocheport       | 30.20f | 34    | 27 | NE    | 5 | 5        | NNE | 9      | o       | —     | 1    |
| ---              | Borunna         | 30.22  | 45    | —  | E     | 3 | —        | —   | —      | c       | —     | 4    |
| ---              | Brussels        | 30.31  | 31    | —  | NE    | 1 | —        | —   | —      | —       | —     | —    |
| ---              | Paris           | 30.25  | 31    | —  | NE    | 4 | —        | —   | —      | o       | —     | —    |
| ---              | Strasbourg      | 30.30  | 30    | —  | NE    | 3 | —        | —   | —      | o       | —     | —    |
| ---              | Lyons           | 30.10  | 29    | —  | N     | 3 | —        | —   | —      | o       | —     | —    |
| ---              | Heart's Content | 29.86f | 40    | 40 | WSW   | 2 | 4        | SW  | 7      | sn      | 0.16  | 3    |

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.



EIGHT A.M.

## WEATHER REPORT. 1870.

January 26<sup>th</sup>

Wednesday

| STATIONS.                                  | Barometer. | Thermometer. |      | Present Wind. |                      | Extreme Wind.        |            | Amount of Cloud.<br>(0 to 9.) | Weather. | Rain.<br>(Inches) | Sea Disturb.<br>(0 to 9.) |
|--|------------|--------------|------|---------------|----------------------|----------------------|------------|-------------------------------|----------|-------------------|---------------------------|
|  |            | Dry.         | Wet. | Direction.    | Force.<br>(0 to 12.) | Force.<br>(0 to 12.) | Direction. |                               |          |                   |                           |
| * Christiansund                            | 30.09      | 40           | 39   | WSW           | 6                    | 6                    | WSW        | —                             | o        | —                 | 5                         |
| * Skudesnaes ...                           | 29.95      | 35           | 35   | Z             | 0                    | —                    | —          | —                             | o f      | —                 | 2                         |
| * Oxo (Christiansand)                      | 30.23      | 31           | —    | NNW           | 4                    | 4                    | NW         | —                             | b        | —                 | 1                         |
| Thurso ...                                 | —          | —            | —    | —             | —                    | —                    | —          | —                             | —        | —                 | —                         |
| Wick ...                                   | 30.31 f    | 29           | —    | WNW           | 2                    | 2                    | WNW        | 3                             | c        | —                 | 2                         |
| Nairn ...                                  | 30.34 f    | 32           | —    | SW            | 1                    | 1                    | SW         | 1                             | c b      | —                 | 1                         |
| Aberdeen ...                               | 30.37 f    | 28           | —    | Z             | 0                    | 1                    | SW         | 1                             | b        | —                 | 1                         |
| Leith ...                                  | 30.41 f    | 29           | —    | W             | 1                    | 1                    | NW         | 1                             | b f      | —                 | —                         |
| Shields ...                                | —          | 30           | —    | NW            | 2                    | 2                    | N          | 4                             | u f      | —                 | 2                         |
| Scarborough ...                            | 30.45 f    | 28           | —    | WSW           | 2                    | 2                    | SE         | 1                             | b        | —                 | 2                         |
| Yarmouth ...                               | 30.49 f    | 31           | —    | NNW           | 2                    | 5                    | NW         | 2                             | c m      | —                 | 2                         |
| Ardrossan ...                              | 30.43 f    | 30           | 36   | S             | 4                    | 1                    | NE         | 8                             | e f o    | —                 | 3                         |
| Greencastle ...                            | 30.36 f    | 35           | 33   | S             | 1                    | 1                    | WNW        | 4                             | f m      | —                 | —                         |
| Holyhead ...                               | 30.44 f    | 30           | —    | ESE           | 1                    | 2                    | ENE        | 0                             | b m      | —                 | —                         |
| Liverpool ...                              | 30.47 f    | —            | —    | SE            | 2                    | 1                    | NE         | 3                             | c        | —                 | 1                         |
| Valencia ...                               | 30.29 f    | 41           | 39   | SSE           | 4                    | 3                    | SE         | 8                             | b o      | —                 | 2                         |
| Cape Clear ...                             | 30.29 f    | 41           | 38   | S             | 5                    | 4                    | ESE        | 8                             | c o      | —                 | 3                         |
| Roche's Point                              | 30.34 f    | 40           | 37   | SSE           | 4                    | 4                    | SSE        | 6                             | o c      | —                 | 2                         |
| Pembroke ...                               | 30.39 f    | 34           | 32   | ESE           | 4                    | 3                    | NE         | 4                             | c        | —                 | 3                         |
| Penzance ...                               | —          | 36           | 34   | E             | 5                    | 5                    | NE         | 3                             | o c      | —                 | 4                         |
| Plymouth ...                               | 30.37 f    | 34           | 33   | ENE           | 2                    | 5                    | NE         | 1                             | o b      | —                 | 1                         |
| Portsmouth ...                             | 30.44 f    | 28           | —    | E             | 1                    | 4                    | E          | 2                             | c b      | —                 | 1                         |
| London ...                                 | 30.47 f    | 26           | —    | ENE           | 1                    | 3                    | NE         | —                             | b m      | —                 | —                         |
| Helder ...                                 | —          | —            | —    | —             | —                    | —                    | —          | —                             | —        | —                 | —                         |
| Cape Gris Nez                              | 30.46 f    | 41           | 41   | SE            | 1                    | 5                    | E          | 0                             | b        | —                 | 0                         |
| Brest ...                                  | 30.21 f    | 28           | —    | E             | 4                    | 5                    | NNE        | 0                             | o b      | —                 | 2                         |
| L'Orient ...                               | 30.19 f    | 27           | —    | ENE           | 7                    | 5                    | ENE        | 0                             | c b      | —                 | 3                         |
| Rochefort ...                              | 30.12 f    | 25           | —    | E             | 7                    | 7                    | E          | 9                             | o        | —                 | 1                         |
| Biarritz ...                               | 30.05 f    | 25           | —    | SE            | 4                    | 3                    | E          | 3                             | u f      | —                 | 2                         |
| Corunna ...                                | —          | —            | —    | —             | —                    | —                    | —          | —                             | —        | —                 | —                         |
| Brussels ...                               | —          | —            | —    | —             | —                    | —                    | —          | —                             | —        | —                 | —                         |
| Paris ...                                  | —          | —            | —    | —             | —                    | —                    | —          | —                             | —        | —                 | —                         |
| Strasbourg ...                             | —          | —            | —    | —             | —                    | —                    | —          | —                             | —        | —                 | —                         |
| Lyons ...                                  | —          | —            | —    | —             | —                    | —                    | —          | —                             | —        | —                 | —                         |
| Toulon ...                                 | 29.97 f    | 37           | 32   | E             | 7                    | 3                    | WSW        | 3                             | 2 c      | 0.01              | 6                         |
| Heart's Content<br>(9 a.m. local<br>time.) | —          | —            | —    | —             | —                    | —                    | —          | —                             | —        | —                 | —                         |

## 2 P.M. REPORT.

|                 |   |   |   |   |   |   |   |   |   |   |   |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|
| Skudesnaes ...  | — | — | — | — | — | — | — | — | — | — | — |
| Nairn ...       | — | — | — | — | — | — | — | — | — | — | — |
| Scarborough ... | — | — | — | — | — | — | — | — | — | — | — |
| Greencastle ... | — | — | — | — | — | — | — | — | — | — | — |
| Valencia ..     | — | — | — | — | — | — | — | — | — | — | — |
| Penzance ...    | — | — | — | — | — | — | — | — | — | — | — |
| London ...      | — | — | — | — | — | — | — | — | — | — | — |
| Rochefort ...   | — | — | — | — | — | — | — | — | — | — | — |

**BAROMETER** corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER** exposed in shade. **EXTREME FORCE** with its Direction during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l.—lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**, snow or hail (melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

\* Rainfall is not reported from the Norwegian stations; and their "extremes" are the observations made at 8 pm. on the previous day.



# REMARKS.

Wednesday

A decrease of barometrical pressure has now set in at our western stations, amounting to 0.2 in. at Valencia since yesterday, and apparently extending eastwards. Readings are, however, still rather uniform, that at Yarmouth being 0.37 in. higher than that at Rochefort.

Temperature has decreased considerably and is low on our east coasts and in France, but has risen in Ireland and at Androsan. Valencia is 16° warmer than Rochefort.

The wind has veered into the SW<sup>ly</sup> at the Irish Stations and freshened a little, and also become more variable in G<sup>th</sup> Britain. In France and the south of England, however, the E<sup>ly</sup> breezes continue unchanged.

The sky is now very free from cloud, except in the west, but a good deal of fog is reported. The sea is calm generally.

## CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

| Date.                | Station.                 | Bar.                               | Temp. |    | Wind. |   | Extreme. |     | Cloud. | Weather. | Rain. | Sea. |
|----------------------|--------------------------|------------------------------------|-------|----|-------|---|----------|-----|--------|----------|-------|------|
| JAN 25 <sup>th</sup> | Christiansund            | 30.18                              | 39    | 37 | SSW   | 6 | 2        | ESE | —      | ct       | —     | 4    |
| —                    | Skudsmoes                | 30.42                              | 33    | 32 | ESE   | 2 | 2        | N   | —      | bo       | —     | 2    |
| —                    | Oslo                     | 30.39                              | 27    | —  | SW    | 4 | 6        | NNE | —      | c        | —     | 2    |
| —                    | Corunna                  | 30.12                              | 45    | —  | NE    | 3 | —        | —   | —      | c        | —     | 2    |
| —                    | Brunels                  | 30.34                              | 32    | —  | NE    | 3 | —        | —   | —      | o        | —     | —    |
| —                    | Paris                    | 30.28                              | 30    | —  | NNW   | 2 | —        | —   | —      | o        | —     | —    |
| —                    | St.asbourg               | 30.36                              | 26    | —  | NE    | 3 | —        | —   | —      | s        | —     | —    |
| —                    | Lyon                     | 30.12                              | 28    | —  | N     | 3 | —        | —   | —      | o        | —     | —    |
| —                    | Heart's Content          | 30.50 <sup>h</sup>                 | 19    | —  | NE    | 2 | 2        | WSW | 8      | co       | 0.05  | 2    |
| —                    | Correction.<br>Panzance. | The rain should have been omitted. |       |    |       |   |          |     |        |          |       |      |

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.



EIGHT A.M.

WEATHER REPORT. 1870. *January 27<sup>th</sup>**Thursday*

| STATIONS.                                  | Barometer.         | Thermometer. |      | Present Wind. |                      | Extreme Wind.        |            | Amount of Cloud.<br>(0 to 9.) | Weather. | Rain.<br>(Inches) | Sea Disturb.<br>(0 to 9.) |
|--|--------------------|--------------|------|---------------|----------------------|----------------------|------------|-------------------------------|----------|-------------------|---------------------------|
|  |                    | Dry.         | Wet. | Direction.    | Force.<br>(0 to 12.) | Force.<br>(0 to 12.) | Direction. |                               |          |                   |                           |
| * Christiansund                            | 30.00              | 36           | 35   | Z             | 0                    | 4                    | SVV        | —                             | ca       | —                 | 5                         |
| * Skudesnaes ...                           | 30.18              | 29           | —    | E             | 4                    | 0                    | Z          | —                             | fc       | —                 | 2                         |
| * Oxo (Christiansand)                      | 30.16              | 25           | —    | NNW           | 4                    | 4                    | N          | —                             | bc       | —                 | 1                         |
| Thurso ...                                 |                    |              |      |               |                      |                      |            |                               |          |                   |                           |
| Wick ...                                   | 30.05 <sup>f</sup> | 33           | 31   | SSW           | 4                    | 2                    | WNW        | 3                             | c        | —                 | 3                         |
| Nairn ...                                  | 30.07 <sup>f</sup> | 35           | 31   | N             | 3                    | 1                    | SW         | 1                             | b        | —                 | 1                         |
| Aberdeen ...                               | 30.13 <sup>f</sup> | 27           | —    | Z             | 0                    | 0                    | Z          | 0                             | b        | —                 | 1                         |
| Leith ...                                  | 30.21 <sup>f</sup> | 22           | —    | NW            | 1                    | 1                    | W          | 1                             | bf       | —                 | —                         |
| Shields ...                                | —                  | 28           | —    | W             | 2                    | 2                    | W          | 2                             | cm       | —                 | 4                         |
| Scarborough ...                            | 30.25 <sup>f</sup> | 27           | —    | W             | 2                    | 2                    | W          | 0                             | b        | —                 | 2                         |
| Yarmouth ...                               | 30.20 <sup>f</sup> | 28           | —    | WNW           | 1                    | 2                    | ENE        | 2                             | cm       | —                 | 2                         |
| Ardrossan ...                              | 30.21 <sup>f</sup> | 39           | 37   | SSW           | 4                    | 5                    | S          | 7                             | c        | —                 | 3                         |
| Greencastle ...                            | 30.16 <sup>f</sup> | 36           | 34   | SSW           | 1                    | 2                    | S          | 1                             | mb       | —                 | —                         |
| Holyhead ...                               | 30.26 <sup>f</sup> | 38           | 36   | S             | 4                    | 1                    | ESE        | 9                             | bo       | —                 | —                         |
| Liverpool ...                              | 30.26 <sup>f</sup> | —            | —    | SE            | 2                    | 1                    | SE         | 7                             | bf       | —                 | 1                         |
| Valencia ...                               | 30.12 <sup>f</sup> | 44           | 42   | SSW           | 5                    | 6                    | S          | 7                             | c        | —                 | 4                         |
| Cape Clear ...                             | 30.13 <sup>f</sup> | 43           | 41   | SE            | 5                    | 4                    | SE         | 8                             | co       | —                 | 3                         |
| Roche's Point                              | 30.18 <sup>f</sup> | 44           | 41   | S             | 6                    | 6                    | S          | 9                             | co       | —                 | 4                         |
| Pembroke ...                               | 30.24 <sup>f</sup> | 37           | 36   | SE            | 4                    | 4                    | ESE        | 4                             | cm       | —                 | 3                         |
| Penzance ...                               | —                  | 42           | 40   | SSE           | 5                    | 7                    | SE         | 8                             | bo       | —                 | 5                         |
| Plymouth ...                               | 30.24 <sup>f</sup> | 38           | 36   | SE            | 3                    | 5                    | ESE        | 5                             | bf       | —                 | 2                         |
| Portsmouth ...                             | 30.26 <sup>f</sup> | 28           | —    | E             | 1                    | 2                    | ESE        | 3                             | cm       | —                 | 1                         |
| London ...                                 | 30.28 <sup>f</sup> | 25           | —    | Z             | 0                    | 3                    | NE         | —                             | bof      | —                 | —                         |
| Helder ...                                 |                    |              |      |               |                      |                      |            |                               |          |                   |                           |
| Cape Gris Nez                              | 30.25 <sup>f</sup> | 32           | —    | W             | 1                    | 4                    | E          | 6                             | c        | —                 | 0                         |
| Brest ...                                  | 30.13 <sup>s</sup> | 32           | —    | ENE           | 3                    | 5                    | E          | 0                             | b        | —                 | 2                         |
| L'Orient ...                               | 30.07 <sup>f</sup> | 30           | —    | ENE           | 7                    | 7                    | ENE        | 3                             | bc       | —                 | 3                         |
| Rochefort ...                              | 30.07 <sup>f</sup> | 27           | —    | E             | 7                    | 7                    | E          | 0                             | b        | —                 | 1                         |
| Biarritz ...                               |                    |              |      |               |                      |                      |            |                               |          |                   |                           |
| Corunna ...                                |                    |              |      |               |                      |                      |            |                               |          |                   |                           |
| Brussels ...                               |                    |              |      |               |                      |                      |            |                               |          |                   |                           |
| Paris ...                                  |                    |              |      |               |                      |                      |            |                               |          |                   |                           |
| Strasbourg ...                             |                    |              |      |               |                      |                      |            |                               |          |                   |                           |
| Lyons ...                                  |                    |              |      |               |                      |                      |            |                               |          |                   |                           |
| Toulon ...                                 | 29.97 <sup>f</sup> | 34           | 29   | N             | 1                    | 4                    | E          | 2                             | fb       | —                 | 4                         |
| Heart's Content<br>(9 a.m. local<br>time.) |                    |              |      |               |                      |                      |            |                               |          |                   |                           |

## 2 P.M. REPORT.

|                 |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|
| Skudesnaes ...  |  |  |  |  |  |  |  |  |  |  |  |
| Nairn ...       |  |  |  |  |  |  |  |  |  |  |  |
| Scarborough ... |  |  |  |  |  |  |  |  |  |  |  |
| Greencastle ... |  |  |  |  |  |  |  |  |  |  |  |
| Valencia ..     |  |  |  |  |  |  |  |  |  |  |  |
| Penzance ...    |  |  |  |  |  |  |  |  |  |  |  |
| London ...      |  |  |  |  |  |  |  |  |  |  |  |
| Rochefort ...   |  |  |  |  |  |  |  |  |  |  |  |

**BAROMETER** corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER** exposed in shade. **EXTREME FORCE** with its Direction during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l.—lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**, snow or hail (melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

\* Rainfall is not reported from the Norwegian stations; and their "extremes" are the observations made at 8 pm. on the previous day.



# REMARKS.

Thurs-day

The equatorial current is slowly gaining ground over these islands. Barometrical pressure has decreased somewhat at all our stations (about a quarter of an inch in the north) but readings are still above 30 ins. and very uniform: that at Yarmouth is 0.23 in. higher than that at Wick.

Temperature has risen at all the western stations but again fallen in the east. Roche's Pt. is 22° warmer than Leith.

The wind has veered to S on all our western coasts, and blew fresh during the night in the Irish Channel. On the east coasts it is light from the W, but in the west of France strong E. breezes continue.

The sky has become overcast in the west, and much fog is reported. The sea is moderate.

## CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

| Date.                | Station.                 | Bar.   | Temp. |    | Wind. |   | Extreme. |     | Cloud. | Weather | Rain. | Sea. |
|----------------------|--------------------------|--------|-------|----|-------|---|----------|-----|--------|---------|-------|------|
| JAN 26 <sup>th</sup> | Helder                   | 30.40  | 38    | -  | NNW   | 6 | -        | -   | -      | -       | -     | 2    |
|                      | Cornuna                  | 29.99  | 44    | -  | NE    | 6 | -        | -   | -      | c       | -     | 4    |
|                      | Brussels                 | 30.44  | 28    | -  | NE    | 1 | -        | -   | -      | o       | -     | -    |
|                      | Paris                    | 30.39  | 21    | -  | NE    | 2 | -        | -   | -      | b       | -     | -    |
|                      | Strasbourg               | 30.49  | 19    | -  | NE    | 3 | -        | -   | -      | b       | -     | -    |
|                      | Lyons                    | 30.10  | 26    | -  | N     | 3 | -        | -   | -      | b       | -     | -    |
|                      | Hearts Cont <sup>d</sup> | 29.63f | 37    | 37 | SSW   | 6 | 6        | SSW | b      | 0.87    | ?     | 5    |

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.



EIGHT A.M.

## WEATHER REPORT. 1870.

Fri-day

January 28<sup>th</sup>

| STATIONS.                               | Barometer. | Thermometer. |      | Present Wind. |                   | Extreme Wind.     |            | Amount of Cloud. | Weather. | Rain. (Inches) | Sea Disturb. (0 to 9.) |
|---|------------|--------------|------|---------------|-------------------|-------------------|------------|------------------|----------|----------------|------------------------|
|   |            | Dry.         | Wet. | Direction.    | Force. (0 to 12.) | Force. (0 to 12.) | Direction. |                  |          |                |                        |
| * Christiansund                         | 29.86      | 38           | 34   | ESE           | 2                 | 2                 | ESE        | —                | 0        | —              | 5                      |
| * Skudesnaes ...                        | 30.06      | 35           | 34   | SE            | 4                 | —                 | —          | —                | 0        | —              | 4                      |
| * Oxo (Christiansand)                   | 30.00      | 33           | 32   | SW            | 4                 | 4                 | W          | —                | c        | —              | 1                      |
| Thurso ...                              |            |              |      |               |                   |                   |            |                  |          |                |                        |
| Wick ...                                | 29.82 f    | 40           | 38   | S             | 4                 | 4                 | SSW        | 4                | c        | —              | 3                      |
| Nairn ...                               | 29.83 f    | 41           | 38   | SW            | 4                 | 3                 | WSW        | 2                | b        | —              | 1                      |
| Aberdeen ...                            | 29.97 f    | 33           | 32   | E             | 2                 | 1                 | NNW        | 1                | b        | —              | 0                      |
| Leith ...                               | 30.01 f    | 36           | 34   | S             | 2                 | 5                 | W          | 1                | f b m    | —              | —                      |
| Shields ...                             | —          | 29           | —    | WNW           | 4                 | 2                 | W          | 5                | m        | —              | 5                      |
| Scarborough ...                         | 30.14 f    | 28           | —    | WSW           | 2                 | 1                 | WSW        | 6                | b c      | —              | 2                      |
| Yarmouth ...                            | 30.23 f    | 34           | 34   | SSW           | 2                 | 3                 | NE         | 6                | f c      | —              | 2                      |
| Ardrossan ...                           | 29.98 f    | 41           | 39   | SSW           | 5                 | 6                 | SSW        | 8                | c o      | —              | 5                      |
| Greencastle ...                         | 29.85 f    | 40           | 37   | S             | 4                 | 4                 | SSW        | 3                | b c      | —              | —                      |
| Holyhead ...                            | 30.05 f    | 37           | 35   | SSE           | 6                 | 2                 | SSE        | 3                | c        | —              | —                      |
| Liverpool ...                           | 30.10 f    | —            | —    | SE            | 1                 | 1                 | SE         | 8                | o        | —              | 1                      |
| Valencia ...                            | 29.77 f    | 46           | 44   | S             | 9                 | ?                 | S          | 8                | o p g    | 0.07           | 6                      |
| Cape Clear ...                          | 29.84 f    | 44           | 42   | SSE           | 8                 | 7                 | SSE        | 7                | c        | 0.07           | 1                      |
| Roche's Point                           | 29.89 f    | 44           | 43   | S             | 8                 | 8                 | S          | 8                | o        | —              | 5                      |
| Pembroke ...                            | 30.02 f    | 41           | 38   | S             | 6                 | 5                 | SE         | 9                | c o      | —              | 3                      |
| Penzance ...                            | —          | 40           | 38   | S             | 6                 | 6                 | SE         | 7                | c        | —              | 5                      |
| Plymouth ...                            | 30.10 f    | 39           | 36   | SSE           | 4                 | 5                 | SE         | 7                | b o      | —              | 3                      |
| Portsmouth ...                          | 36.16 f    | 36           | 32   | S             | 2                 | 1                 | E          | 8                | c o      | —              | 1                      |
| London ...                              | 30.21 f    | 29           | —    | ESE           | 11                | 0                 | Z          | ?                | f        | —              | —                      |
| Helder ...                              | —          | —            | —    | —             | —                 | —                 | —          | —                | —        | —              | —                      |
| Cape Gris Nez                           | 30.22 s    | 30           | —    | S             | 1                 | 3                 | E          | 9                | c o      | —              | 0                      |
| Brest ...                               | 30.03 f    | 36           | 34   | SE            | 4                 | 4                 | SE         | 9                | o        | —              | 2                      |
| L'Orient ...                            | 30.07 f    | 32           | —    | E             | 4                 | 5                 | ENE        | 8                | c        | —              | 2                      |
| Rochefort ...                           | 30.08 f    | 28           | —    | E             | 5                 | 5                 | E          | 9                | o        | —              | 1                      |
| Biarritz ...                            | 30.05 f    | 28           | —    | E             | 4                 | 4                 | E          | 0                | b        | —              | 2                      |
| Corunna ...                             | —          | —            | —    | —             | —                 | —                 | —          | —                | —        | —              | —                      |
| Brussels ...                            | —          | —            | —    | —             | —                 | —                 | —          | —                | —        | —              | —                      |
| Paris ...                               | —          | —            | —    | —             | —                 | —                 | —          | —                | —        | —              | —                      |
| Strasbourg ...                          | —          | —            | —    | —             | —                 | —                 | —          | —                | —        | —              | —                      |
| Lyons ...                               | —          | —            | —    | —             | —                 | —                 | —          | —                | —        | —              | —                      |
| Toulon ...                              | 30.68 f    | 32           | —    | ENE           | 4                 | 5                 | WNW        | 4                | c        | —              | 4                      |
| Heart's Content<br>(9 a.m. local time.) | —          | —            | —    | —             | —                 | —                 | —          | —                | —        | —              | —                      |

## 2 P.M. REPORT.

|                 |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|
| Skudesnaes ...  |  |  |  |  |  |  |  |  |  |  |  |
| Nairn ...       |  |  |  |  |  |  |  |  |  |  |  |
| Scarborough ... |  |  |  |  |  |  |  |  |  |  |  |
| Greencastle ... |  |  |  |  |  |  |  |  |  |  |  |
| Valencia ..     |  |  |  |  |  |  |  |  |  |  |  |
| Penzance ...    |  |  |  |  |  |  |  |  |  |  |  |
| London ...      |  |  |  |  |  |  |  |  |  |  |  |
| Rochefort ...   |  |  |  |  |  |  |  |  |  |  |  |

**BAROMETER** corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER** exposed in shade. **EXTREME FORCE** with its Direction during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l.—lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**, snow or hail (melted), during last 24 hours. **SEA DISTURBANCE**: 0—dead calm; 9—extremely high sea.

\* Rainfall is not reported from the Norwegian stations; and their "extremes" are the observations made at 8 pm. on the previous day.



# REMARKS.

Fri - day

The barometrical depression continues to advance slowly from the West - the fall in Ireland since yesterday having been 0.3 in, in Scotland about 0.2 in, while the Southeast there is scarcely any change. The highest reading is at Yarmouth and it is 0.46 in. above that at Valencia.

Temperature is higher everywhere - especially in Scotland - but it is still cold on our Northeast coast.

During the night the S<sup>ly</sup> winds freshened and a gale from that quarter is reported in the South of Ireland this morning - on our coasts however they are only fresh to light and are rather more W<sup>ly</sup> in the East. The E<sup>ly</sup> winds still hold in the Bay of Biscay but they have fallen light.

The dry weather continues but the sky is very cloudy and fog still hangs on the East coast. The sea is moderately high. Warnings issued to West coast and Scotland.

## CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

| Date.                | Station.        | Bar.    | Temp. | Wind. | Extreme. | Cloud. | Weather | Rain. | Sea. |
|----------------------|-----------------|---------|-------|-------|----------|--------|---------|-------|------|
| Jan 27 <sup>th</sup> | Belder          | 30.22   | 37    | N     | 2        | -      | -       | -     | 2    |
|                      | Biarritz        | 29.90 f | 25    | ESE   | 4        | 4      | E       | 2     | 2    |
|                      | Corunna         | 29.93   | 42    | NE    | 3        | -      | -       | -     | -    |
|                      | Brussels        | 30.22   | 37    | NE    | ?        | -      | -       | -     | -    |
|                      | Paris           | 30.19   | 34    | NE    | 2        | -      | -       | -     | -    |
|                      | Strasbourg      | 30.26   | 29    | N     | 3        | -      | -       | -     | -    |
|                      | Lyons           | 30.07   | 26    | N     | 3        | -      | -       | -     | -    |
|                      | Heart's Content | 30.00 r | 32    | WNW   | 6        | 7      | S       | 2     | 5    |

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.



EIGHT A.M.

WEATHER REPORT. 1870. *January 29<sup>th</sup>**Saturday*

| STATIONS.                               | Barometer. | Thermometer. |      | Present Wind. |                      | Extreme Wind.        |            | Amount of Cloud.<br>(0 to 9.) | Weather. | Rain.<br>(Inches) | Sea Disturb.<br>(0 to 9.) |
|---|------------|--------------|------|---------------|----------------------|----------------------|------------|-------------------------------|----------|-------------------|---------------------------|
|   |            | Dry.         | Wet. | Direction.    | Force.<br>(0 to 12.) | Force.<br>(0 to 12.) | Direction. |                               |          |                   |                           |
| * Christiansund                         | 29.95      | 39           | 34   | SSE           | 4                    | 4                    | SSW        | —                             | co       | —                 | 6                         |
| * Skudesnaes ...                        | 30.10      | 34           | —    | SE            | 4                    | 8                    | S          | —                             | o        | —                 | 4                         |
| * Oxo (Christiansand)                   | 30.08      | 28           | —    | Y             | 0                    | 4                    | SSW        | —                             | bc       | —                 | 0                         |
| Thurso ...                              | —          | —            | —    | —             | —                    | —                    | —          | —                             | —        | —                 | —                         |
| Wick ...                                | 29.875     | 38           | 36   | SSW           | 5                    | 5                    | SSW        | 3                             | c        | —                 | 3                         |
| Nairn ...                               | 29.905     | 38           | 36   | SW            | 2                    | 3                    | SW         | 2                             | b        | —                 | 1                         |
| Aberdeen ...                            | 30.015     | 30           | —    | SSW           | 1                    | 1                    | S          | 1                             | b        | —                 | 1                         |
| Leith ...                               | 30.055     | 33           | 31   | S             | 2                    | 2                    | W          | 8                             | bo       | —                 | —                         |
| Shields ...                             | —          | 31           | —    | SW            | 2                    | 2                    | W          | 4                             | cm       | —                 | 4                         |
| Scarborough ...                         | 30.145     | 30           | —    | SSW           | 2                    | 2                    | SW         | 8                             | bo       | —                 | 2                         |
| Yarmouth ...                            | 30.205     | 30           | —    | SSW           | 2                    | 3                    | SW         | 0                             | cb       | —                 | 2                         |
| Ardrossan ...                           | 30.005     | 39           | 36   | S             | 5                    | 7                    | SW         | 8                             | o        | —                 | 4                         |
| Greencastle ...                         | 29.865     | 41           | 37   | SSE           | 3                    | 5                    | S          | 5                             | c        | —                 | —                         |
| Holyhead ...                            | 30.015     | 37           | 35   | SE            | 4                    | 6                    | SSE        | 8                             | o        | —                 | —                         |
| Liverpool ...                           | 30.055     | —            | —    | SE            | 1                    | 3                    | SE         | 5                             | oe       | —                 | 1                         |
| Valencia ...                            | 29.685     | 46           | 43   | S             | 8                    | 9                    | S          | 8                             | o/p/g    | 0.20              | 7                         |
| Cape Clear ...                          | 29.725     | 45           | 42   | S             | 7                    | 8                    | S          | 5                             | c        | 0.08              | 7                         |
| Roche's Point                           | 29.825     | 45           | 42   | SSW           | 8                    | 8                    | SSW        | 9                             | o        | —                 | 5                         |
| Pembroke ...                            | 29.965     | 39           | 36   | SSE           | 6                    | 7                    | S          | 9                             | o        | —                 | 4                         |
| Penzance ...                            | 29.965     | 41           | 39   | S             | 7                    | 7                    | S          | 8                             | co       | —                 | 6                         |
| Plymouth ...                            | 30.005     | 39           | 36   | SE            | 5                    | 6                    | SE         | 6                             | oe       | —                 | 4                         |
| Portsmouth ...                          | 30.095     | 35           | 33   | S             | 2                    | 3                    | S          | 3                             | oe       | —                 | 1                         |
| London ...                              | 30.165     | 28           | —    | Y             | 0                    | 2                    | SE         | 9                             | cm       | —                 | —                         |
| Helder ...                              | 30.25      | 28           | —    | SSE           | 2                    | —                    | —          | —                             | —        | —                 | 2                         |
| Cape Gris Nez                           | 30.155     | 27           | —    | E             | 1                    | 3                    | SE         | 0                             | b        | —                 | 0                         |
| Brest ...                               | 29.955     | 36           | 34   | ESE           | 3                    | 5                    | SE         | 9                             | o        | —                 | 2                         |
| E'Orient ...                            | 29.915     | 32           | —    | ESE           | 5                    | 5                    | SE         | 9                             | co       | —                 | 3                         |
| Rochefort ...                           | 30.025     | 28           | —    | ESE           | 5                    | 5                    | ESE        | 0                             | b        | —                 | 1                         |
| Biarritz ...                            | 29.975     | 36           | 32   | SSE           | 4                    | 4                    | E          | 3                             | bf       | —                 | 3                         |
| Corunna ...                             | —          | —            | —    | —             | —                    | —                    | —          | —                             | —        | —                 | —                         |
| Brussels ...                            | —          | —            | —    | —             | —                    | —                    | —          | —                             | —        | —                 | —                         |
| Paris ...                               | —          | —            | —    | —             | —                    | —                    | —          | —                             | —        | —                 | —                         |
| Strasbourg ...                          | —          | —            | —    | —             | —                    | —                    | —          | —                             | —        | —                 | —                         |
| Lyons ...                               | —          | —            | —    | —             | —                    | —                    | —          | —                             | —        | —                 | —                         |
| Toulon ...                              | 30.205     | 36           | 34   | NE            | 4                    | 4                    | ESE        | 3                             | fc       | —                 | 5                         |
| Heart's Content<br>(9 a.m. local time.) | —          | —            | —    | —             | —                    | —                    | —          | —                             | —        | —                 | —                         |

## 2 P.M. REPORT.

|                 |   |   |   |   |   |   |   |   |   |   |   |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|
| Skudesnaes ...  | — | — | — | — | — | — | — | — | — | — | — |
| Nairn ...       | — | — | — | — | — | — | — | — | — | — | — |
| Scarborough ... | — | — | — | — | — | — | — | — | — | — | — |
| Greencastle ... | — | — | — | — | — | — | — | — | — | — | — |
| Valencia ..     | — | — | — | — | — | — | — | — | — | — | — |
| Penzance ...    | — | — | — | — | — | — | — | — | — | — | — |
| London ...      | — | — | — | — | — | — | — | — | — | — | — |
| Rochefort ...   | — | — | — | — | — | — | — | — | — | — | — |

**BAROMETER** corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER** exposed in shade. **EXTREME FORCE** with its Direction during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l.—lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**, snow or hail (melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

\* Rainfall is not reported from the Norwegian stations; and their "extremes" are the observations made at 8 pm. on the previous day.



## REMARKS.

Sat<sup>ur</sup>-day

During the night a recovery of pressure commenced in the North but the change as yet is only very slight; elsewhere readings are again a little lower. The lowest pressure continues at Valencia and this morning it is 0.57 in below that at Helder.

Temperature has changed very little and the reading at Valencia is 19° degrees above that at Cape Grimes.

The S<sup>th</sup> winds freshened and were strong on our Western coasts last night, but though the gale continues in the South of Ireland this morning, winds are light to fresh in England and Scotland, and the E<sup>th</sup> breezes still prevail in France, with a low temperature.

Some rain has fallen at Valencia and the sky is very cloudy except in Scotland. The sea is high on the South coast of Ireland.

## CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

| Date.                 | Station.        | Bar.    | Temp. |    | Wind. |   | Extreme. |   | Cloud. | Weather | Rain. | Sea. |
|-----------------------|-----------------|---------|-------|----|-------|---|----------|---|--------|---------|-------|------|
| Jan. 28 <sup>th</sup> | Helder          | 30.26   | 30    | -  | S     | 2 | -        | - | -      | -       | -     | 2    |
| -                     | Corunna         | 29.95   | 41    | -  | NE    | 3 | -        | - | -      | b       | -     | 2    |
| -                     | Brussels        | 30.25   | 33    | -  | NE    | 4 | -        | - | -      | b       | -     | -    |
| -                     | Paris           | 30.21   | 31    | -  | ENE   | 2 | -        | - | -      | b       | -     | -    |
| -                     | Strasbourg      | 30.38   | 33    | -  | NE    | 3 | -        | - | -      | b       | -     | -    |
| -                     | Lyon            | 30.16   | 28    | -  | -     | - | -        | - | -      | f       | -     | -    |
| -                     | Heart's Content | 29.99 f | 33    | 33 | WNW   | 2 | 6        | S | 4      | c       | 0.01  | 3    |

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.



EIGHT A.M.

## WEATHER REPORT. 1870.

SLEET-day

January 30<sup>th</sup>

| STATIONS.                               | Barometer. | Thermometer. |      | Present Wind. |                      | Extreme Wind.        |            | Amount of Cloud.<br>(0 to 9.) | Weather. | Rain.<br>(Inches) | Sea Disturb.<br>(0 to 9.) |
|---|------------|--------------|------|---------------|----------------------|----------------------|------------|-------------------------------|----------|-------------------|---------------------------|
|   |            | Dry.         | Wet. | Direction.    | Force.<br>(0 to 12.) | Force.<br>(0 to 12.) | Direction. |                               |          |                   |                           |
| * Christiansund                         |            |              |      |               |                      |                      |            | —                             |          | —                 |                           |
| * Skudesnaes ...                        |            |              |      |               |                      |                      |            | —                             |          | —                 |                           |
| * Oxo (Christiansand)                   |            |              |      |               |                      |                      |            | —                             |          | —                 |                           |
| Thurso ...                              |            |              |      |               |                      |                      |            |                               |          |                   |                           |
| Wick ...                                | 29.77 f    | 38           | 37   | SSE           | 6                    | 5                    | SSE        | 3                             | c        | —                 | 4                         |
| Nairn ...                               |            |              |      |               |                      |                      |            |                               |          |                   |                           |
| Aberdeen ...                            | 29.88 f    | 33           | 32   | S             | 2                    | 1                    | S          | 3                             | bc       | —                 | 1                         |
| Leith ...                               | —          | 33           | 31   | ESE           | 2                    | 2                    | S          | 1                             | b        | —                 | —                         |
| Shields ...                             | —          | 29           | —    | W             | 2                    | 2                    | SW         | 6                             | m        | —                 | 5                         |
| Scarborough ...                         | 30.05 f    | 33           | 32   | S             | 4                    | 3                    | S          | 1                             | b        | —                 | 4                         |
| Yarmouth ...                            | 30.15 f    | 36           | 36   | SSE           | 3                    | 3                    | SSW        | 2                             | c        | —                 | 3                         |
| Ardrossan ...                           | 29.81 f    | 38           | 36   | SE            | 5                    | 6                    | SSE        | 5                             | c        | —                 | 5                         |
| Greencastle ...                         | 29.50 f    | 45           | 42   | S             | 7                    | 5                    | S          | 9                             | co       | —                 | —                         |
| Holyhead ...                            | 29.80 f    | 43           | 39   | SSE           | 6                    | 4                    | SSE        | 5                             | oc       | —                 | —                         |
| Liverpool ...                           | 29.94 f    | —            | —    | ESE           | 3                    | 6                    | SE         | 2                             | cb       | —                 | 2                         |
| Valencia ...                            | —          | 44           | 44   | SW            | 7                    | 10                   | SSW        | 9                             | r        | 0.62              | 6                         |
| Cape Clear ...                          | 29.42 f    | 47           | 46   | S             | 9                    | 8                    | WNW        | 8                             | co       | 0.14              | 8                         |
| Roche's Point                           | 29.50 f    | 46           | 44   | S             | 10                   | 10                   | S          | 9                             | p        | 0.05              | 7                         |
| Pembroke ...                            | 29.75 f    | 45           | 42   | SE            | 7                    | 7                    | SE         | 5                             | oc       | —                 | 4                         |
| Penzance ...                            | —          | 48           | 46   | S             | 8                    | 8                    | S          | 6                             | c        | —                 | 6                         |
| Plymouth ...                            | 29.91 f    | 47           | 45   | S             | 7                    | 7                    | S          | 5                             | c        | —                 | 4                         |
| Portsmouth ...                          | 30.05 f    | 39           | 38   | S             | 3                    | 2                    | SSE        | 1                             | b        | —                 | 2                         |
| London ...                              | 30.11 f    | 31           | 30   | ESE           | 2                    | 2                    | E          | 0                             | bm       | —                 | —                         |
| Helder ...                              | —          | 31           | —    | SE            | 4                    | —                    | —          | —                             | —        | —                 | 2                         |
| Cape Gris Nez                           | 30.15 f    | 30           | —    | SSE           | 3                    | 3                    | SSE        | 0                             | b        | —                 | 1                         |
| Brest ...                               | 29.87 f    | 43           | 43   | SE            | 5                    | 5                    | SE         | 4                             | cf       | —                 | 2                         |
| L'Orient ...                            | 29.94 f    | 39           | 39   | SE            | 4                    | 5                    | SE         | 7                             | bc       | —                 | 2                         |
| Rochefort ...                           | 30.07 s    | 34           | 34   | SE            | 4                    | 4                    | SE         | 0                             | b        | —                 | 1                         |
| Biarritz ...                            | 30.07 f    | 43           | 41   | S             | 3                    | 4                    | SE         | 0                             | mf       | —                 | 4                         |
| Corunna ...                             | 29.95      | 43           | —    | N             | 6                    | —                    | —          | —                             | c        | —                 | 2                         |
| Brussels ...                            | 30.27      | 32           | —    | SW            | —                    | —                    | —          | —                             | b        | —                 | —                         |
| Paris ...                               | 30.22      | 24           | —    | SE            | 2                    | —                    | —          | —                             | b        | —                 | —                         |
| Strasbourg ...                          | 30.46      | 19           | —    | N             | 3                    | —                    | —          | —                             | f        | —                 | —                         |
| Lyons ...                               | 30.30      | 30           | —    | N             | 1                    | —                    | —          | —                             | f        | —                 | —                         |
| Toulon ...                              | 30.26 r    | 39           | 37   | ENE           | 5                    | 4                    | SSE        | 2                             | fb       | 0.06              | 7                         |
| Heart's Content<br>(9 a.m. local time.) | 29.88 f    | 26           | —    | S             | 3                    | 6                    | NW         | 8                             | bo       | —                 | 3                         |

## 2 P.M. REPORT.

|                 |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|
| Skudesnaes ...  |  |  |  |  |  |  |  |  |  |  |  |
| Nairn ...       |  |  |  |  |  |  |  |  |  |  |  |
| Scarborough ... |  |  |  |  |  |  |  |  |  |  |  |
| Greencastle ... |  |  |  |  |  |  |  |  |  |  |  |
| Valencia ..     |  |  |  |  |  |  |  |  |  |  |  |
| Penzance ...    |  |  |  |  |  |  |  |  |  |  |  |
| London ...      |  |  |  |  |  |  |  |  |  |  |  |
| Rochefort ...   |  |  |  |  |  |  |  |  |  |  |  |

**BAROMETER** corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER** exposed in shade. **EXTREME FORCE** with its Direction during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l.—lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**, snow or hail (melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

\* Rainfall is not reported from the Norwegian stations; and their "extremes" are the observations made at 8 pm. on the previous day.







EIGHT A.M.

## WEATHER REPORT. 1870.

January 31<sup>st</sup>

Monday

| STATIONS.                               | Barometer. | Thermometer. |      | Present Wind. |                      | Extreme Wind.        |            | Amount of Cloud.<br>(0 to 9.) | Weather. | Rain.<br>(Inches) | Sea Disturb.<br>(0 to 9.) |
|---|------------|--------------|------|---------------|----------------------|----------------------|------------|-------------------------------|----------|-------------------|---------------------------|
|   |            | Dry.         | Wet. | Direction.    | Force.<br>(0 to 12.) | Force.<br>(0 to 12.) | Direction. |                               |          |                   |                           |
| * Christiansund                         |            |              |      |               |                      |                      |            | —                             |          | —                 |                           |
| * Skudesnaes ...                        |            |              |      |               |                      |                      |            | —                             |          | —                 |                           |
| * Oxo (Christiansand)                   |            |              |      |               |                      |                      |            | —                             |          | —                 |                           |
| Thurso ...                              |            |              |      |               |                      |                      |            |                               |          |                   |                           |
| Wick ...                                | 29.46f     | 42           | 41   | SSE           | 9                    | 8                    | SSE        | 8                             | co       | —                 | 6                         |
| Nairn ...                               | 29.41f     | 42           | 39   | SSE           | 3                    | 4                    | WNW        | 7                             | c        | —                 | 2                         |
| Aberdeen ...                            | 29.55f     | 41           | 40   | SSE           | 6                    | 2                    | S          | 9                             | co       | —                 | 7                         |
| Leith ...                               | —          | 39           | 37   | SSE           | 5                    | 5                    | ESE        | 8                             | bo       | —                 | —                         |
| Shields ...                             | —          | 38           | 36   | SW            | 4                    | 6                    | SW         | 5                             | c        | —                 | 4                         |
| Scarborough ...                         | 29.67f     | 38           | 37   | S             | 6                    | 5                    | SSW        | 8                             | bo       | —                 | 4                         |
| Yarmouth ...                            | 29.82f     | 38           | 37   | SE            | 6                    | 6                    | SSE        | 2                             | cb       | —                 | 5                         |
| Ardrossan ...                           | 29.38f     | 43           | 41   | SSE           | 7                    | 8                    | S          | 7                             | cn       | 0.03              | 7                         |
| Greencastle ...                         | 29.22f     | 45           | 43   | S             | 2                    | 8                    | S          | 6                             | nc       | 0.08              | —                         |
| Holyhead ...                            | 29.34f     | 45           | 43   | SSE           | 6                    | 7                    | SSE        | 8                             | co       | —                 | —                         |
| Liverpool ...                           | 29.47-     | —            | —    | SE            | 2                    | 7                    | ESE        | 9                             | co       | —                 | 1                         |
| Valencia ...                            | 29.09f     | 43           | 42   | SW            | 2                    | 7                    | SW         | 7                             | nc       | 1.25              | 3                         |
| Cape Clear ...                          | 29.13f     | 45           | 43   | WSW           | 9                    | 8                    | S          | 7                             | rc       | 0.28              | 7                         |
| Roche's Point                           | 29.20f     | 44           | 42   | SW            | 8                    | 10                   | S          | 6                             | nc       | 0.70              | 7                         |
| Pembroke ...                            | 29.34f     | 45           | 44   | S             | 6                    | 9                    | SSE        | 4                             | oc       | 0.53              | 4                         |
| Penzance ...                            | —          | 46           | 44   | S             | 4                    | 10                   | S          | 2                             | cb       | 0.50              | 4                         |
| Plymouth ...                            | 29.47f     | 48           | 47   | S             | 6                    | 8                    | SSE        | 7                             | cb       | 0.47              | 5                         |
| Portsmouth ...                          | 29.62f     | 42           | 41   | SSW           | 5                    | 5                    | SSW        | 9                             | cr       | 0.13              | 4                         |
| London ...                              | 29.69f     | 41           | 40   | S             | 5                    | 6                    | S          | 9                             | bo       | —                 | —                         |
| Helder ...                              |            |              |      |               |                      |                      |            | —                             |          | —                 |                           |
| Cape Gris Nez                           | 29.79f     | 39           | 35   | SSE           | 5                    | 4                    | S          | 7                             | bc       | —                 | 3                         |
| Brest ...                               | 29.53f     | 45           | 43   | SW            | 5                    | 9                    | SSE        | 6                             | no       | 0.09              | 3                         |
| L'Orient ...                            | 29.53f     | 46           | 46   | SSW           | 4                    | 7                    | S          | 8                             | oc       | 0.07              | 4                         |
| Rochefort ...                           | 29.79f     | 41           | 39   | S             | 5                    | 4                    | S          | 9                             | n        | 0.03              | 1                         |
| Biarritz ...                            | 30.21+     | 48           | 44   | S             | 7                    | 5                    | S          | 9                             | cr       | 0.02              | 4                         |
| Corunna ...                             |            |              |      |               |                      |                      |            | —                             |          | —                 | —                         |
| Brussels ...                            |            |              |      |               |                      |                      |            | —                             |          | —                 | —                         |
| Paris ...                               |            |              |      |               |                      |                      |            | —                             |          | —                 | —                         |
| Strasbourg ...                          |            |              |      |               |                      |                      |            | —                             |          | —                 | —                         |
| Lyons ...                               |            |              |      |               |                      |                      |            | —                             |          | —                 | —                         |
| Toulon ...                              | 30.26f     | 45           | 41   | SSE           | 4                    | 3                    | SSE        | 8                             | co       | —                 | 6                         |
| Heart's Content<br>(9 a.m. local time.) |            |              |      |               |                      |                      |            |                               |          |                   |                           |

## 2 P.M. REPORT.

|                 |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|
| Skudesnaes ...  |  |  |  |  |  |  |  |  |  |  |  |
| Nairn ...       |  |  |  |  |  |  |  |  |  |  |  |
| Scarborough ... |  |  |  |  |  |  |  |  |  |  |  |
| Greencastle ... |  |  |  |  |  |  |  |  |  |  |  |
| Valencia ..     |  |  |  |  |  |  |  |  |  |  |  |
| Penzance ...    |  |  |  |  |  |  |  |  |  |  |  |
| London ...      |  |  |  |  |  |  |  |  |  |  |  |
| Rochefort ...   |  |  |  |  |  |  |  |  |  |  |  |

**BAROMETER** corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER** exposed in shade. **EXTREME FORCE** with its Direction during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l.—lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**, snow or hail (melted), during last 24 hours. **SEA DISTURBANCE**: 0—dead calm; 9—extremely high sea.

\* Rainfall is not reported from the Norwegian stations; and their "extremes" are the observations made at 8 pm. on the previous day.



## REMARKS.

Mon-day

Barometrical pressure has decreased considerably at all stations since Saturday - especially in the west - and readings are rather low generally. The lowest is at Valencia where it is 0.73 in. less than that at Yarmouth.

Temperature has risen quickly at all stations.

It again blew hard from the ~~SW~~ on our western coasts yesterday, and the wind is now fresh to strong from that quarter at nearly all stations. At Cape Clear a hard WSW gale is reported.

Weather appears unsettled, with rain on the south coasts; and the sea is high at Aberdeen and Ardrossan.

Warnings to all but the east coasts this morning.

N.B. The warnings sent out on Saturday evening were not forwarded to the coast, owing to changes in telegraphic arrangements on that day.

## CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

| Date.            | Station.       | Bar.   | Temp. |   | Wind. |   | Extreme. |    | Cloud. | Weather | Rain. | Sea. |
|------------------|----------------|--------|-------|---|-------|---|----------|----|--------|---------|-------|------|
| JAN V            |                |        |       |   |       |   |          |    |        |         |       |      |
| 29 <sup>TH</sup> | Corunna        | 29.84  | 42    | — | NE    | 3 | —        | —  | —      | c       | —     | 2    |
| —                | Brussels       | 30.25  | 32    | — | WSW   | 3 | —        | —  | —      | cf      | —     | —    |
| —                | Paris          | 30.21  | 23    | — | ESE   | 2 | —        | —  | —      | f       | —     | —    |
| —                | Strasbourg     | 30.41  | 20    | — | N     | 1 | —        | —  | —      | f       | —     | —    |
| —                | Lyon           | 30.26  | 27    | — | N     | 3 | —        | —  | —      | f       | —     | —    |
| —                | Hearts Content | 30.19† | 11    | — | NW    | 6 | 6        | NW | 1      | cb      | —     | 6    |

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.